SC-Database
Software version = 5.81 Data version = 4.62
Experiment list contains 1158 experiments for
 (no ligands specified)
 Metal : Sr++
 (no references specified)
 (no experimental details specified)

****
e- HL Electron (442)
Electron;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF none 25°C 0.00 U 1974LMb (945) 1
K(Sr+2e=SrHg)=-64.248(-1.9004V

Sr++ EMF none 25°C 0.00 U 1972KKb (946) 2
K(Sr+2e=Sr/Hg)=-62.17(-1.839V)

Sr++ oth none 25°C 0.0 U I 1962JTa (947) 3
K(Sr+2e)=-97.58(-2886 mV)
Medhod: combination of thermodynamic data. In MeOH: K=-99.33(-2938 mV)
****
AsO4--- H3L Arsenate CAS 7778-39-4 (1557)
Arsenate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sol oth/un 20°C dil U 1959CHc (1161) 4
Kso(Sr3L2)=-17.79
****
AsW11O39------- H7L (2468)
alpha-Heteromonoarseno-polytungstate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 1.00M U K1=3.59 1984COa (1179) 5
****
As2W17H2O61-------- H8L (2469)
alpha-Heteropolydiarseno-polytungstate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 1.00M U K1=3.39 1984COa (1189) 6
alpha2 isomer
****
BO4H4- HL Borate CAS 10043-35-3 (991)
Borate; B(OH)4-

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference		ExptNo
Sr++	gl	NaCl	25°C	0.70M	U		K1=0.54		1988RBa	(1327)	7
Sr++	gl	none	25°C	0.0	M	TIH			1976REa	(1328)	8
							K(Sr+H2BO3)=1.55				

Calculated from data for 0.02-0.16 M SrCl2. Data for 10-50 C.
DH(Sr+H2BO3)=3.0 kJ mol-1, DS=40 J K-1 mol-1.

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference		ExptNo
Sr++	sol	oth/un	25°C	var	M	TIH	K1=2.81		1994BPa	(3378)	9
							K(Sr+HL)=1.18				
							K(SrL(s)=Sr+L)=-9.271				

DH(K1)=-16.0 kJ mol-1; DH(Sr+HL)=-6.8. DH(SrL(s)=Sr+L)=52.9

Sr++	sol	NaCl	25°C	1.0M	C	I			1984MTb	(3379)	10
							K(SrL(s)=Sr+L)=-7.39				

I=0.1-6 M.Activity coeff. estimated from Pitzer's eq. ASt I=0 corr:K=-9.13

Sr++	sol	none	25°C	0.0	U				1972MBd	(3380)	11
							Kso=-9.15				
Sr++	dis	NaCl	25°C	1.00M	U		K1=1.28	B2=1.60	1970HKa	(3381)	12
							B3=1.70				
Sr++	gl	none	25°C	0.0	U				1969NRa	(3382)	13
							K(Sr+HL)=1.24				
Sr++	oth	none	25°C	0.0	U	T			1968KRa	(3383)	14
							Kso=-9.36				

Method: Estimated data. Temperature range 25-200 C
Kso=-9.54 (50 C); -9.88 (100 C); -10.46 (150 C); -11.21 (200 C)

Sr++	dis	oth/un	25°C	dil	U				1953SCa	(3384)	15
							Kso/Kso(BaCO3(s))=-0.18				

Activity coefficient of components in solid (Ba,Sr)CO3.

Sr++	con	oth/un	25°C	dil	U				1946KDa	(3385)	16
							Kso=-8.57				
Sr++	sol	oth/un	25°C	0.0	U	T			1939HJa	(3386)	17
							Kso=-9.28				

Medium: 0 corr. Kso=-9.29(40 C)

Sr++	sol	none	25°C	0.0	U	T			1937TWa	(3387)	18
							Kso(SrCO3(s))=-9.96				

I=0 corr. Kso=-10.36(40 C)

Sr++ sol none 25°C 0.0 U 1935KAa (3388) 19
Kso(SrCO3(s))=-9.03
+Kpso=-6.53
I=0 corr. +Kpso: SrCO3(s)+CO2(g)+H2O=Sr+2HCO3

Sr++ sol none 25°C 0.0 U 1911MSa (3389) 20
Kso(SrCO3(s))=-8.80
+Kso=-5.07
I=0 corr. +Kso: SrCO3(s)+H2CO3=Sr+2HCO3

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ISE	oth/un	25°C	0.00	U	H	K1=3.66	1975JLa (3605)	21
DH=7.8 kJ mol-1									
Sr++	EMF	oth/un	25°C	3.0M	U		K1=1.18	1975LMd (3606)	22
Background salt: LiClO4									
Sr++	oth	oth/un	25°C	0.0	U		K1=3.59	1966NSa (3607)	23
Method:electrical migration or transference number.									

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	oth/un	25°C	0.10M	U		K1=1.50	1982ARa (3688)	24
Sr++	EMF	oth/un	25°C	3.0M	U		K1=0.11	1975LMd (3689)	25
Background salt: LiClO4									
Sr++	sol	oth/un	25°C	3.0M	U		K1=0.23	1967RMd (3690)	26
Medium: LiNO3									
Sr++	sol	oth/un	25°C	3.0M	U		K1=-0.77	1966MRb (3691)	27
Medium: LiCl									
Sr++	con	none	25°C	0.0	U		K1=2.85	1952GMb (3692)	28

****

C6O3 L Benzenetrioxide CAS 264911-91-3 (6002)
cis-Benzenetrioxide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	nmr	alc/w	25°C	100%	U	H	K1=1.71	1987BBc (3699)	29

In MeOH. DH=-1.9 kJ mol-1, by calorimetry

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	con	alc/w	25°C	100%	C	T H	K1=2.61	1987DWa (5755)	30

Medium: MeOH, DH(K1)=19.7 kJ mol-1, DS(K1)=116 J K-1 mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ISE	alc/w	25°C	100%	U		K1=3.08	1984DMa (5756)	31

Medium: MeOH, 0.05 M NaClO4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	3.00M	U	T H	K1=-0.27	1982MSb (5757)	32

K1=-0.25(15 C), K1=0.00(65 C), K1=-0.05(45 C), K1=-0.03(85 C)
DH=12.9 kJ mol-1, DS=39.3 J mol-1 K-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	con	alc/w	25°C	?	U		K1=2.63	1978LWb (5758)	33

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	EMF	NaNO3	25°C	0.10M	C	T H	K1=-0.24	1975SCd (5759)	34

Method: Ag,AgCl electrode. Data for 15-60 C.
DH(K1)=-9.52 kJ mol-1, DS(K1)=37 J K-1 mol-1.

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	con	mixed	25°C	20%	C		K1=0.82	2003SIa (6377)	35

Medium: 20% w/w propylene carbonate/ethylene carbonate.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	con	non-aq	25°C	100%	C		K1=1.50	1992STa (6378)	36

Medium: propylene carbonate.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	con	alc/w	30°C	100%	C	TIH	K1=2.39	1990DOd (6379)	37

Medium; MeOH. DH(K1)=16.1 kJ mol-1, DS=103 J K-1 mol-1. ASlso in ethylene glycol/MeOH mixtures (0,20,40,60,80,100%)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	con	alc/w	25°C	100%	C	T H	K1=2.54	1987DWa (6380)	38

Medium: MeOH, DH(K1)=16.4 kJ mol-1, DS(K1)=104 J K-1 mol-1

****

CrO4-- H2L Chromate CAS 7738-94-5 (2382)
Chromate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sol	oth/un	25°C		dil	U T	Kso=-4.65	1942DAa (6509)	39

Kso=-4.71(50 C),-4.81(75 C)

```
Sr++       oth oth/un 25°C  var  U                          1930RAa  (6510)  40
                                        Kso=-4.44
********************************************************************************
F-                      HL    Fluoride          CAS 7644-39-3  (201)
Fluoride;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       ISE alc/w  25°C 100%  C        B2=11.1         1988TIa  (7200)  41
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 3.00M U T H    K1=0.14         1982MSb  (7201)  42
K1=0.16(15 C), K1=0.25(45 C), K1=0.33(65 C), K1=0.43(85 C)
DH=4.48 kJ mol-1, DS=18.4 J mol-1 K-1
--------------------------------------------------------------------------------
Sr++       ISE alc/w  25°C 100%  C  I     K1=2.61         1978BBc  (7202)  43
Medium: MeOH, 0.05 M Et4NClO4. In H2O, 0.05 M Et4NClO4 K1=1.38
--------------------------------------------------------------------------------
Sr++       ISE NaClO4 25°C  1.0M U T      K1=0.11         1971BHc  (7203)  44
K1=-0.05(2 C), 0.40(35 C)
--------------------------------------------------------------------------------
Sr++       ISE NaNO3  25°C  1.0M U T H    K1=-0.03        1971CVa  (7204)  45
DH(K1)=9.6 kJ mol-1, DS=31.4. K1=-0.09(15 C), 0.03(35 C)
--------------------------------------------------------------------------------
Sr++       ISE NaClO4 25°C  1.0M U T H    K1=0.15         1968TWa  (7205)  46
DH((K1)=16.7 kJ mol-1, DS(K1)=58.6 J K-1 mol-1. K1=-0.1(2 C), 0.32(39 C)
--------------------------------------------------------------------------------
Sr++       cal NaClO4 25°C  1.0M U   H                   1968TWa  (7206)  47
DH((K1)=17 kJ mol-1, DS(K1)=58.6 J K-1 mol-1
--------------------------------------------------------------------------------
Sr++       sol none   25°C  0.0  U                       1950TKa  (7207)  48
                                        Kso(SrF2)=-8.61
--------------------------------------------------------------------------------
Sr++       con none   27°C  0.0  U T                     1923BOa  (7208)  49
                                        Kso(SrF2)=-8.54
Kso=-8.60(0.3 C), -8.55(18 C)
********************************************************************************
GeW11O39--------      H8L                    CAS 37369-86-1  (2466)
alpha-Heteromonogermanium-polytungstate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 1.00M U        K1=3.92         1984COa  (7471)  50
********************************************************************************
I-                      HL    Iodide            CAS 10034-85-2  (20)
Iodide;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       dis oth/un       var  U                        1968LKa  (8383)  51
                                        Kd(Sr+2I=SrI2(in TBP))=0.12
```

****
IO3- HL Iodate CAS 7782-68-5 (1257)
Iodate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sol NaClO4 25°C 1.00M U K1=1.30 B2=2.00 1985KSb (8552) 52

Sr++ sol NaClO4 25°C 0.50M U I 1974FRf (8553) 53
Kso(SrL2(s))=-5.40
Medium: LiClO4. Kso=-5.29(I=1), -5.29(I=2), -5.30(I=3), -5.37(I=4)
Kso=-6.53(I=0 corr)

Sr++ sol none 25°C 0.0 U T 1969BMa (8554) 54
Kso(SrL2(H2O)6)=-6.34
Kso'(SrL2(H2O))=-6.42
Kso"(SrL2)=-6.95
Kso=-7.71(0 C), -7.35(8 C), -7.01(12 C), -6.46(22 C). Kso'=-6.67(15 C),
-6.55(20 C),-6.34(30 C),-6.18(40 C); Kso"=-7.32(7 C),-6.62(42 C),-6.35(60 C)

Sr++ sol NaClO4 20°C 1.0M U 1965KOa (8555) 55
Kso=-5.55
Medium:HClO4. HL neglected

Sr++ con none 25°C 0.0 U K1=1.00 1952CMd (8556) 56
I=0 corr. By solubility K1=0.96, Kso(SrL2)=-6.48
****
NH3 L Ammonia CAS 7664-41-7 (414)
Ammonia

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ dis oth/un 25°C 0.5M C TI K1=-0.12 B2=-0.62 1990PSb (9214) 57
K3=-0.77
Medium: 0.5 M NH4ClO4;Also for I=1.5 K1=-0.27; K2=-0.65; K3=-0.93;
For I= 1.0 K1=-0.19; K2=-0.58; K3=-0.85;
****
NO3- HL Nitrate CAS 7697-37-2 (288)
Nitrate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp oth/un 25°C ? U 1975BCb (9925) 58
Using Raman: K1=0.76

Sr++ sol NaClO4 25°C 0.50M U I K1=0.06 B2=-0.5 1974FRf (9926) 59
Medium: LiClO4. K1=0.05,B2=-0.3(I=1). K1=0.06,B2-0.2(I=2). K1=0.08,B2=-0.4,
B3=-0.6(I=3). K1=0.10,B2=-0.2,B3=-0.5(I=4). 0 corr: K1=0.77, B2=0.8

Sr++ oth none 25°C 0.0 U K1=0.7 1966MBb (9927) 60

Sr++ cal KNO3 25°C c U IH 1964VGb (9928) 61
DH(K1)=-10 kJ mol-1,DS=-23.8 J K-1 mol-1. In LiNO3: DH(K1)=0, DS=11

Sr++ con oth/un 25°C 0.0 U T H K1=0.54 1963VVa (9929) 62
Medium: 0 corr. K1=0.57(18 C). DH(K1)=-7.1 kJ mol-1, DS=-12 J K-1 mol-1

Sr++ con oth/un 18°C 0.0 U K1=0.82 1930RDa (9930) 63

****

OH- HL Hydroxide (57)
Hydroxide;

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

---

Sr++ EMF none 25°C 0.0 U H 1967HEb (12212) 64
Method: H electrode. DH(K1)=4.8 kJ mol-1. DS=31.8 J K mol-1

Sr++ EMF NaClO4 25°C 3.0M C K1=0.23 1961COd (12213) 65

Sr++ EMF none 25°C 0.0 C K1=0.85 1954GMb (12214) 66
Method: H electrode

Sr++ EMF none 25°C 0.0 C T H K1=0.82 1954GMb (12215) 67
DH(K1)=4.8 kJ mol-1,DS=31.8(25 C); K1=0.78(5 C), 0.80(15 C), 0.86(35 C),
0.89(45 C). Method: H electrode

Sr++ sol none 25°C 0.0 U K1=0.96 1952CMd (12216) 68

Sr++ oth oth/un 18°C var U K1=0.82 1923KOa (12217) 69
Medium: SrCl2 at various concentrations; method:colorimetry

****

PO4--- H3L Phosphate CAS 7664-38-2 (176)
Phosphate;

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

---

Sr++ gl NaNO3 25°C 0.10M M 1996SSa (13330) 70
K(Sr+HL)=1.38

Sr++ sol oth/un 20°C 0.0 U 1966SMb (13331) 71
Ks(SrHL)=-6.92

Sr++ sol oth/un 25°C 0.0 U 1962FRa (13332) 72
Ks(SrHL)=-6.38

Sr++ ix NaCl 20°C 0.15M U K1=4.18 1962GGb (13333) 73
K(SrHL+H)=5.83
K(SrL+H)=8.74
K(Sr+H2L)=0.2
K(Sr+HL)=1.21

```
--------------------------------------------------------------------------------
Sr++       sol oth/un 20°C  var  U                      1961CAb (13334)  74
                                       Kso(Sr3L2)=-27.39
                                       Ks(SrHL=Sr+HL)=-6.24
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.20M U                      1956SAa (13335)  75
                                       K(Sr+HL)=1.52
Medium: Pr4NCl
--------------------------------------------------------------------------------
Sr++       sol none   38°C  0.0  U                      1954HPa (13336)  76
                                       Ks(SrHL(s)=Sr+HL)=-7.06
Also quinhydrone electrode. At I=0.0035 M: Kso(Sr3L2)=-27.8
********************************************************************************
PW11O39-------        H7L                        (2467)
alpha-Heteromonophospho-polytungstate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 1.00M U        K1=3.05        1984COa (13406)  77
********************************************************************************
P2O7----              H4L    Pyrophosphate    CAS 2466-09-3  (198)
Diphosphate; from (HO)2PO.O.PO(OH)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       ix  NaCl   20°C 0.15M U        K1=3.26        1962GGb (13656)  78
--------------------------------------------------------------------------------
Sr++       gl  none   25°C  0.0  U T      K1=5.4         1959WOa (13657)  79
                                       B(Sr(OH)L)=7.7
                                       Ks(Sr+SrL)=-7.5
At 40 C: K1=5.3, Ks=-7.5
--------------------------------------------------------------------------------
Sr++       sp  oth/un 19?°C  var  U        K1=4.66       1957VAb (13658)  80
********************************************************************************
P2O8----              H4L                      CAS 13825-81-5  (2402)
Peroxodiphosphate, also cyclic metaposphates, thiophosphates etc.;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       ix  NaCl   20°C 0.23M U                      1974KOa (13698)  81
Ligand:metaphosphates, cyclic, (PO3)n n-, K1=2.70(n=4), 3.73(n=6), 4.30(n=8)
********************************************************************************
P2W17O61----------           Polytungstate      (2102)
alpha-Heterodiphospho-polytungstate (usually alpha1 isomer)
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 1.00M U        K1=2.95        1984COa (13731)  82
alpha2 isomer
********************************************************************************
```

P3O10----- 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
Sr++	gl	KNO3	25°C	0.10M	U	T H	K1=4.00 K(Sr+HL)=2.86	1973TRa (13906)	83
2 C: K1=5.03, K(Sr+HL)=2.95; 35 C: K1=5.30, K=2.90. 45 C: K1=4.29, K=2.79 DH(K1)=-25.1 kJ mol-1, DH(Sr+HL)=-5.9									
Sr++	gl	KNO3	45°C	0.10M	U		K1=4.28 K(Sr+HL)=2.79	1971TRa (13907)	84
Sr++	gl	R4N.X	20°C	0.10M	U	H	K1=5.46 K(Sr+HL)=3.56 K(SrL+H)=6.92	1965ANa (13908)	85
Medium: Me4NNO3. By calorimetry: DH(K1)=13.2 kJ mol-1, DS=149 J K-1 mol-1									
Sr++	gl	KCl	25°C	0.10M	U		K1=4.35 K(Sr+HL)=2.53 K(SrL+H)=6.24	1964EMb (13909)	86
Sr++	ix	NaCl	20°C	0.15M	U		K1=3.80 K(srL+H)=6.89 K(Sr+HL)=2.82	1962GGb (13910)	87
Sr++	gl	oth/un	?	0.10M	U		K1=3.6 K(Sr+HL)=3.0	1962RKa (13911)	88
Sr++	gl	none	25°C	0.0	U	T	K1=7.2 B(Sr(OH)L)=9.3	1959WOa (13912)	89
At 40 C: K1=7.0, B(Sr(OH)L)=8.4									

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ix	NaClO4	20°C	0.23M	U		K1=2.03	1974KOa (13970)	90
Sr++	ix	NaCl	20°C	0.15M	U		K1=1.95	1962GGb (13971)	91
Sr++	sp	R4N.X	?	0.10M	U		K1=0.62	1962RKa (13972)	92
Medium: NH4Cl									
Sr++	con	none	25°C	0.0	U		K1=3.35	1952MOa (13973)	93
By solubility K1=3.35									

****

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

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       ix  NaClO4 20°C 0.23M U        K1=2.03        1974KOa (14020)  94
--------------------------------------------------------------------------------
Sr++       ix  NaCl   20°C 0.15M U        K1=2.80        1962GGb (14021)  95
--------------------------------------------------------------------------------
Sr++       sp  R4N.X    ?  0.10M U        K1=1.46        1962RKa (14022)  96
Medium: NH4Cl
--------------------------------------------------------------------------------
Sr++       con none   25°C  0.0  U        K1=5.15        1952MOa (14023)  97
By solubility K1=5.08, K(SrL+Sr)=2.46
********************************************************************************
P4O13------           H6L    Tetraphosphate     (1102)
Tetraphosphate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C  1.0M U         K1=4.82        1968WMc (14051)  98
                                          K(Sr+HL)=3.49
                                          K(Sr+SrL)=3.42
Medium: Me4NCl
********************************************************************************
P6O12------           H6L                     CAS 25268-83-1  (6590)
Dodecaoxohexaphosphate(III); anion of (PO.OH)6
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       sp  R4N.X  25°C 0.10M C        K1=7.5         1999NWa (14063)  99
Method: competition with EDTA. Medium: 0.10 M Me4NCl, pH 7.
********************************************************************************
P6O18------           H6L                      (233)
Cyclohexametaphosphate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       ix  NaClO4 20°C 0.23M U        K1=3.73        1974KOa (14075) 100
********************************************************************************
P8O24--------         H8L                      (232)
Cyclooctametaphosphate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       ix  NaClO4 20°C 0.23M U        K1=4.30        1974KOa (14087) 101
********************************************************************************
S--                   H2L    Sulfide          CAS 7783-06-4  (705)
Sulfide;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
```

Sr++ oth none 25°C 0 U 1988LIa (14481) 102
Kso(SrS)=-3.4
*Kso(SrS)=13.9
Derived from thermodynamic data and K(H+S=HS)=17.3.
****
SCN- HL Thiocyanate CAS 463-56-9 (106)
Thiocyanate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% U K2=0.84 1994GGa (15263) 103
Medium: MeCN
****
SO4-- H2L Sulfate CAS 7664-93-9 (15)
Sulfate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ ix oth/un 0.10M C K1=1.44 1997PIa (16555) 104
K(SrL+L)=1.52
Medium: 0.1 M HCl, Method: 90Sr
Also data for I=0: K1=2.30; K2=1.52; Temp. is not indicated

Sr++ sol none RT 0.0 C I K1=1.86 1990FRa (16556) 105
Kso(SrSO4)=-6.62
Method: ICP spectroscopy. Calculated from data for 0.001-0.10 M Na2SO4
SrSO4 is celestite.

Sr++ sol none 25°C 0.0 C T H 1989RAa (16557) 106
Kso(SrSO4)=-6.613
Data for 0-300C. DH(Kso)=-1.57 kJ mol-1, DS(Kso)=-129.5 J K-1 mol-1.

Sr++ sol none 25°C 0.0 C 1988MGb (16558) 107
Kso(SrSO4)=-6.618
Method: analysis of literature solubility data, using Pitzer parameters.
SrSO4 is celestite.

Sr++ sol none 25°C 0.0 C IH 1987RAb (16559) 108
Kso(SrSO4)=-6.631
SrSO4 is celestite. Also data for 0.05-4.98 m NaCl medium, 10-40 C.
DH(Kso)=-1.668 kJ mol-1, DS(Kso)=-132.6 J K-1 mol-1.

Sr++ oth none 25°C 0.00 U 1985LMa (16560) 109
Kso(SrSO4)=-6.63
Derived from literature data. SrSO4: celestite.

Sr++ con none 25°C 0.0 U K1=2.31 1983REa (16561) 110

Sr++ sol oth/un 2°C 0.0 U T 1974MNb (16562) 111
Measured at p(atm). Kso=-6.56(p=1), -6.47(p=100), -6.11(p=500),-5.91(p=750),

-5.70(p=1000). Also at temperatures up to 35 C

Sr++ sol NaCl 2°C 0.65M U 1974NOb (16563) 112
Measured at p(atm). Kso=-4.58(p=1),-4.38(p=220),-4.38(p=250),-4.19(p=450),
-4.04(p=660),-3.82(p=900),-3.71(p=1000). Also extrapolated to I=0

Sr++ sol NaClO4 25°C 0.20M U K1=1.41 1969DIa (16564) 113
Kso=-5.55

Sr++ ix R4N.X 25°C 0.50M U K1=1.14 1968CSb (16565) 114
Medium: NH4ClO4. In I=0 corr: K1=2.55

Sr++ sol oth/un 20°C 0.0 U K1=2.1 1965LIb (16566) 115

Sr++ sol oth/un 25°C 0.0 U T H 1956SZa (16567) 116
Kso(SrL)=-6.46
By calorimetry DH(so)=2.0 kJ mol-1. By solubility, 0-40 C, DH(so)=2.5,
DS=-131 J K-1 mol-1

Sr++ sol oth/un 25°C 0.0 U H 1955SIa (16568) 117
Kso(SrL)=-6.49
DH(so)=1.1 kJ mol-1, DS=-120.7 J K-1 mol-1

Sr++ sol oth/un 5°C dil U T 1935GAa (16569) 118
Kso(SrL)=-6.36
Kso=-6.21(20 C), -6.26(50 C), -6.41(90 C)

Sr++ con oth/un 2.8°C 0.0 U T 1923BOa (16570) 119
Kso(SrL)=6.56
Kso=-6.56(10.2 C), -6.55(17.4 C), -6.55(32.3 C)

Sr++ sol oth/un 20°C dil U T 1896WOa (16571) 120
Kso(SrL)=-6.19
Kso=-6.55(5 C), -6.10(50 C), -6.05(90 C)

Sr++ con oth/un 16°C dil U T 1893HOa (16572) 121
Kso(SrL)=-6.53
Kso=-6.53(26 C)
****
S2O3-- H2L Thiosulfate CAS 73686-28-7 (177)
Thiosulfate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ con alc/w 25°C 44% U K1=3.59 1956BMa (16900) 122
Medium: 44% EtOH

Sr++ sol none 25°C 0.0 U K1=2.04 1951DMb (16901) 123
****
SeO3-- H2L Selenite CAS 7783-00-8 (2391)

Selenite;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	con	oth/un	18°C	dil	U		Kso=-5.10	1968RVa (17071)	124
Sr++	sol	oth/un	25°C	dil	U		Kso=-5.36	1965LSb (17072)	125
Sr++	sol	oth/un	20°C	0.0	U		Kso(SrL)=-6.10	1963SLb (17073)	126
Sr++	sol	oth/un	20°C	var	U		Kso(SrL)=-5.74	1956CHe (17074)	127

SeO4-- H2L Selenate CAS 7783-08-6 (459)
Selenate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sol	oth/un	18°C	0.0	U		Kso=-4.37	1963SCd (17110)	128
Sr++	sol	oth/un	25°C	var	U	T H	Kso(SrL)=-4.40	1959SZa (17111)	129

Kso=-4.39(20 C). By calorimetry DH(so)=0.6 kJ mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sol	none	25°C	0.0	U		Kso(SrL)=-4.60	1958SZa (17112)	130

SiO3-- H2L Silicate CAS 7699-41-4 (747)
Silicate; SiO2(OH)2--

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	oth	none	25°C	0.0	U			1957BAa (17219)	131

From thermodynamic data. I=0 corr. Ks(SrSiO3(s)+H2O=SiO2(s)+Sr+2OH)=-4.91

SiW11O39-------- H8L (2464)
alpha-Heterosilicon-polytungstate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	1.00M	U		K1=3.15 K(beta1 isomer)=3.30 K(beta2 isomer)=3.16 K(beta3 isomer)=3.83	1984COa (17241)	132

TeO4-- H2L Tellurate (5750)

Tellurate(VI); TeO4-- or TeO2(OH)4--

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sol	oth/un	20°C	var	U		Kso=-12.6 Kso(3Sr+TeO6)=-14.1	1970KBd (17315)	133

****

VO4--- H3L CAS 15457-75-7 (1586)

Vanadate; VO2(OH)3-- or polymers

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaClO4	25°C	1.00M	U		K(Sr+H7PV12O36)=3.66	1975KIc (17391)	134
Sr++	sol	NaCl	20°C	3.00M	U	I	K(Sr+VO3)=0.15 K(Sr+V4O12(4-))=1.86 Ks(Sr(VO3)2(H2O)4)=-7.86	1974IGa (17392)	135

I=0, Ks=-13.09; I=0.1, Ks=-10.86; I=0.5, Ks=-9.65; I=1.5, Ks=-8.76

****

CH2O2 HL Formic acid CAS 64-18-6 (37)

Methanoic acid; H.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sol	NaClO4	25°C	2.00M	U	I	K1=1.25 B2=1.91	1977FKa (17650)	136
Sr++	gl	oth/un	25°C	0.0	U	T H	K1=1.39	1956NAa (17651)	137

Medium: 0 corr. K1(35 C)=1.40, DH(K1)=2.5 kJ mol-1, DS=34.7 J K-1 mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sol	none	25°C	0.0	U		K1=0.66	1952CMf (17652)	138
Sr++	gl	oth/un	25°C	0.0	U		K1=1.39	1948SCa (17653)	139

****

CH3NO HL Formaldoxime CAS 62479-75-2 (4206)

Formaldoxime; CH2:N.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	oth	oth/un	20°C	0.10M	U		K1=8.8	1971BJa (17671)	140

Paper electrophoresis, acetate-veronal buffer

****

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
Sr++	gl	NaNO3	25°C	0.10M	C		K1=2.94	1994SCa (17703)	141

K(Sr+HL)=1.45
K(SrL+H)=6.08

****

CH4O3ClP H2L CAS 2565-58-4 (1973)
Chloromethylphosphonic acid; Cl.CH2.PO3H2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.10M	U		K1=1.15	1970TNa (17930)	142

****

CH5O3P H2L CAS 13590-71-1 (1752)
Methylphosphonic acid; CH3.PO3H2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.10M	M		K1=1.36	1992SCa (18134)	143

****

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
Sr++	gl	NaNO3	25°C	0.10M	M		K1=1.25	1996SSa (18176)	144

****

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
Sr++	gl	NaNO3	25°C	0.10M	C		K1=1.34	1994SCa (18232)	145
							K(Sr+HL)=0.79		
							K(SrL+H)=9.53		

****

CH6O6P2 H4L Medronic acid CAS 1984-15-2 (2384)
Methanediphosphonic acid; CH2(PO3H2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	U		K1=5.87	1967KLa (18291)	146
							K(Sr+HL)=3.63		
Sr++	gl	oth/un	25°C	0.10M	U		K1=4.48	1963KEa (18292)	147
							K(Sr+HL)=1.77		
							K(Sr+SrL)=3.70		

****

CH6O7P2 H3L CAS 56399-35-0 (7664)
Methyldiphosphoric acid;

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

Sr++ gl NaNO3 25°C 0.10M M K1=2.33 1999SSa (18310) 148
****
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
---
Sr++ gl NaClO4 30°C 1.0M U K1=2.40 1988GMd (19071) 149

Sr++ dis R4N.X 25°C 0.50M U K1=1.40 1976MKa (19072) 150

Sr++ ix NaClO4 25°C 0.10M U 1973ADa (19073) 151
K(Sr+HL)=1.11
K(Sr+2HL)=1.70

Sr++ dis NaClO4 25°C 1.0M U K1=1.25 B2=1.90 1967HMa (19074) 152

Sr++ dis NaClO4 20°C 0.10M U 1963STc (19075) 153
Kso=-6.4

Sr++ con oth/un 18°C 0.0 U K1=2.54 1932MDa (19076) 154
****
C2H3O2Br HL Bromoacetic acd CAS 79-08-3 (1309)
Bromoethanoic acid; Br.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sol oth/un 25°C ->0 U K1=0.27 1952CMf (19283) 155
****
C2H4O2 HL Acetic acid CAS 64-19-7 (36)
Ethanoic acid; CH3.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl oth/un 25°C 0.0 M T K1=1.38 2001RFa (20177) 156
Calculated from data for 0.01 m NaOH/0.02 m HL. Data for 25-175 C.

Sr++ oth none 25°C 0 U T H K1=1.73 1994SHd (20178) 157
Data also at 35, 45 55 C. DH(K1)=3.1 KJ mol-1, DS=43.4 J K-1 mol-1

Sr++ gl R4N.X 25°C 0.16M U I K1=0.50 1985RSa (20179) 158
K1=0.59 (I=0.04); 0.50 (0.25); 0.56 (0.49); 0.72 (1.00)

Sr++ sol NaClO4 25°C 2.00M U I K1=0.80 B2=0.87 1977FKa (20180) 159

Sr++ dis R4N.X 25°C 0.50M U K1=-0.24 1976MKa (20181) 160

Sr++ oth oth/un ? ? U B2=2.14 1967MBa (20182) 161
Method: paper electrophoresis

```
Sr++       gl  none   25°C  0.0  U        K1=1.08        1964AMa (20183) 162
--------------------------------------------------------------------------
Sr++       gl  non-aq 25°C 100%  U        K2=6.65        1964KLa (20184) 163
Medium: ethanoic acid
--------------------------------------------------------------------------
Sr++       sp  non-aq 25°C 100%  U        B2=9.48        1961PSa (20185) 164
Medium: ethanoic acid
--------------------------------------------------------------------------
Sr++       gl  oth/un 25°C  0.0  U T H    K1=1.19        1956NAa (20186) 165
Medium: 0 corr. K1(35 C)=1.18; DH(K1)=3.1 kJ mol-1, DS=32.6 J K-1 mol-1
--------------------------------------------------------------------------
Sr++       sol oth/un 25°C  ->0  U        K1=0.44        1952CMe (20187) 166
--------------------------------------------------------------------------
Sr++       ix  oth/un 25°C 0.16M U        K1=0.10        1952SLa (20188) 167
--------------------------------------------------------------------------
Sr++       EMF KCl    20°C 0.20M U        K1=0.43        1938CKa (20189) 168
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C    M   K1=3.90        2000KAb (21721) 169
                                          K(SrA+L)=3.99
                                          B(SrAL)=7.97
H2A=Dipicolinic acid.
--------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C        K1=3.20        1989GAb (21722) 170
--------------------------------------------------------------------------
Sr++       sp  oth/un 25°C  1.0M U        K1=0.14        1987HAa (21723) 171
--------------------------------------------------------------------------
Sr++       sol oth/un 25°C  ->0  U        K1=0.91        1952CMf (21724) 172
--------------------------------------------------------------------------
Sr++       ix  oth/un 25°C 0.16M U        K1=0.6         1952SLa (21725) 173
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=1.55        1963TAa (22502) 174
**************************************************************************
C2H7O3P               H2L                    CAS 71778-99-9  (1978)
Ethylphosphonic acid; CH3.CH2.PO3H2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M M        K1=1.35        1992SCa (22570) 175
**************************************************************************
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
Sr++	gl	KNO3	25°C	0.10M	U		K1=4.80 K(Sr+HL)=3.18 K(Sr+H2L)=1.52	1980ZRc (23397)	176
Sr++	gl	KCl	25°C	0.10M	U		K1=5.52 K(2Sr+H-1L))=14.37 K(2Sr+L)=9.11	1967KLa (23398)	177

****

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
Sr++	gl	NaNO3	25°C	0.50M	M		K1=-0.25	1998KSa (23928)	178

****

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
Sr++	gl	NaClO4	30°C	1.0M	U	M	K1=2.30 K(Sr(ox)+L)=2.56 K(Sr(cit)+L)=2.88	1988GMd (24072)	179
Sr++	ix	oth/un	25°C	0.16M	U		K1=0.50	1952SLa (24073)	180

****

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
Sr++	gl	NaClO4	25°C	0.10M	U		K1=1.30	1968OVa (24559)	181
Sr++	EMF	KCl	25°C	0.20M	U		K1=1.25 K(Sr+HL)=0.41	1938CKa (24560)	182

****

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
Sr++	oth	none	25°C	0	U	T H	K1=2.43	1994SHd (25053)	183
Data also at 35, 45 55 C. DH(K1)=1.7 KJ mol-1, DS=52.3 J K-1 mol-1									
Sr++	sol	NaClO4	25°C	2.00M	U	I	K1=0.58 B2=0.67	1977FKa (25054)	184

```
Sr++       sol oth/un 25°C  ->0  U        K1=0.24        1952CMf (25055) 185
--------------------------------------------------------------------------
Sr++       EMF KCl    20°C 0.20M U        K1=0.43        1938CKa (25056) 186
Method: H electrode
**************************************************************************
C3H6O3                 HL    L-Lactic acid    CAS 79-33-4  (82)
L-2-Hydroxypropanoic acid; CH3.CH(OH).COOH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       EMF oth/un 25°C  1.0M U        K1=0.53   B2=0.69   1965VTa (25543) 187
Method: quinhydrone electrode.
--------------------------------------------------------------------------
Sr++       EMF oth/un 25°C  ->0  U        K1=0.98        1954DMb (25544) 188
Method: H electrode
--------------------------------------------------------------------------
Sr++       sol oth/un 25°C  ->0  U        K1=0.96        1952CMf (25545) 189
--------------------------------------------------------------------------
Sr++       ix  oth/un 25°C 0.16M U        K1=0.50        1952SLa (25546) 190
--------------------------------------------------------------------------
Sr++       EMF KCl    20°C 0.20M U        K1=0.70        1938CKa (25547) 191
Method: H electrode
**************************************************************************
C3H6O4                 HL    Glyceric acid    CAS 473-81-4  (2520)
2,3-Dihydroxypropanoic acid; HO.CH2.CH(OH).COOH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       EMF KCl    20°C 0.20M U        K1=0.89        1938CKa (25633) 192
Method: H electrode
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       sol oth/un 25°C  ->0  U        K1=0.73        1952CMf (26271) 193
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       ix  oth/un 25°C 0.16M U        K1=0.4         1954SCa (27180) 194
**************************************************************************
C3H7O6P               H2L                      (6830)
3-Hydroxy-2-oxopropylphosphoric acid; CH2(OH).CO.CH2.OPO3H2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
```

```
Sr++       gl  NaNO3  25°C 0.10M U        K1=1.23        1992LCb (27324) 195
**************************************************************************
C3H9O4P              H2L                        (6694)
(Phosphonylmethoxy)ethane; H2O3P.CH2.O.CH2.CH3
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M M        K1=1.38        1992SCa (28022) 196
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M U        K1=1.23        1992LCb (28050) 197
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M C        K1=1.5         1993SKc (28102) 198
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M C        K1=3.66        1993SKc (28451) 199
                                         K(SrL+H)=10.61
                                         K(SrHL+H)=5.3
--------------------------------------------------------------------------
Sr++       gl  NaClO4 25°C 0.10M U        K1=4.23        1988LDa (28452) 200
**************************************************************************
C3H11NO7P2           H4L                    CAS 40291-99-9  (1346)
1-Hydroxy-3-aminopropyl-1,1-diphosphonic acid; (H2O3P)2C(OH).CH2.CH2.NH2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  NaCl   37°C 0.15M C                        1999ZJa (28459) 201
                                         K(Sr+H+L)=16.30
                                         K(Sr2L+H)=9.77
                                         K(2Sr+L)=9.80
                                         K(SrHL+H)=7.64
**************************************************************************
C3H12NO9P3           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
--------------------------------------------------------------------------
```

```
Sr++       gl  KNO3   25°C 0.10M C   H    K1=6.52        1993SMa (28588) 202
                                          K(SrL+H)=9.41
                                          K(SrHL+H)=6.15
DH(K1)=-6.5, DH(SrHL)=-21.2, DH(SrH2L)=15.6 kJ mol-1.
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M C        K1=6.52        1987SAa (28589) 203
                                          K(SrL+H)=9.41
                                          K(SrHL+H)=6.15
                                          K(SrH2L+H)=5.0
********************************************************************************
C4H4O4                H2L    Maleic acid      CAS 110-16-7  (111)
cis-Butenedioic acid; HOOC.CH:CH.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       ix  oth/un 25°C 0.16M U        K1=1.1         1952SLa (29136) 204
********************************************************************************
C4H4O4                H2L    Fumaric acid     CAS 110-17-8  (289)
trans-Butenedioic acid; HOOC.CH:CH.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       ix  oth/un 25°C 0.16M U        K1=0.54        1950SRa (29219) 205
********************************************************************************
C4H5N2Cl                L                      CAS 872-49-1  (7589)
5-Chloro-1-methylimidazole;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.50M M        K1=-0.08       1998KSa (29337) 206
********************************************************************************
C4H6N2                  L    N-Me-Imidazole   CAS 616-47-7  (354)
N-Methyl-1,3-diazole; C3H3N2.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.50M M        K1=-0.3        1998KSa (29608) 207
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C TIH    K1=1.39        1984DDa (30047) 208
                                          B(SrHL)=5.93
Medium: Et4NI. Data for 0.05-1.0 M and 15-45 C.DH(K1)=3.8 kJ mol-1, DS(K1)
=38 J K-1 mol-1; DH(SrHL)=5.0, DS=130.  At I=0, K1=2.10, B(SrHL)=6.62.
--------------------------------------------------------------------------------
Sr++       ix  NaCl   25°C 0.16M U        K1=0.9         1952SCa (30048) 209
--------------------------------------------------------------------------------
```

```
Sr++       EMF KCl    25°C 0.20M U        K1=1.06        1938CKa (30049) 210
                                          K(Sr+HL)=0.48
********************************************************************************
C4H6O4                H2L    Me-Malonic Acid  CAS 516-15-2  (816)
Methylpropanedioic acid; HOOC.CH(CH3).COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaClO4 25°C 0.10M U        K1=1.43        1968OVa (30137) 211
********************************************************************************
C4H6O5                H2L    Malic acid       CAS 617-48-1  (393)
2-Hydroxybutane-1,4-dioic acid, Hydroxy-succinic acid; HOOC.CH2.CH(OH).COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       cal NaNO3  25°C 1.00M U   H    K1=1.32        1980ARa (30730) 212
DH(K1)=-0.4 kJ mol-1
--------------------------------------------------------------------------------
Sr++       ix  R4N.X    ?  0.10M U        K1=2.4         1962BAb (30731) 213
Medium: NH4Cl
--------------------------------------------------------------------------------
Sr++       ix  NaCl   25°C 0.16M U        K1=1.45        1952SCa (30732) 214
--------------------------------------------------------------------------------
Sr++       EMF KCl    25°C 0.20M U        K1=1.45        1938CKb (30733) 215
                                          K(Sr+HL)=0.72
********************************************************************************
C4H6O5                H2L    Diglycolic acid  CAS 110-99-6  (243)
Di(carboxy)methyl ether, 2,2'-Oxydiethanoic acid; HOOC.CH2.O.CH2.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KCl    25°C 0.10M C        K1=2.52        1984MMg (30932) 216
                                          K(SrL+H)=2.4
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=2.47        1974MSa (30933) 217
********************************************************************************
C4H6O6                H2L    DL-Tartaric acd  CAS 133-37-9  (94)
DL-Tartaric acid,DL-2,3-Dihydroxybutanedioic acid; HOOC.CH(OH).CH(OH).COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaClO4 25°C 1.00M M    M                    1988MOa (31031) 218
                                          K(Sr+H2L+(ascorbate))=4.06
--------------------------------------------------------------------------------
Sr++       oth oth/un 25°C  dil  C        K1=2.690       1982HKa (31032) 219
Method: isotachophoresis. Medium: 0.006-0.019 M tartrate buffer, pH 5.1.
********************************************************************************
C4H6O6                H2L    L-Tartaric acid  CAS 87-69-4  (92)
L-Tartaric acid, L-2,3-Dihydroxybutanedioic acid; HOOC.CH(OH).CH(OH).COOH
--------------------------------------------------------------------------------
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	nmr	KNO3	25°C	1.50M	U		K1=1.26	1994PRa (31359)	220

Keff(Sr+BO4(H-1L)2=SrBO4(H-1L)2)=3.9, Keff(SrL+BO4(H-1L)2=SrBO4(H-1L)2+L)= 2.65. At pH 11.5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaClO4	37°C	0.20M	U		K1=2.25	1967TTb (31360)	221
Sr++	dis	NaClO4	20°C	0.10M	U		K1=<2.0	1963STc (31361)	222
Sr++	ix	R4N.X	?	0.10M	U		K1=1.8	1962BAb (31362)	223

Medium: NH4Cl

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ix	oth/un	25°C	0.16M	U		K1=1.59	1952SLa (31363)	224
Sr++	oth	oth/un	25°C	0.15M	U		K1=1.94	1946JOa (31364)	225
Sr++	EMF	KCl	25°C	0.20M	U		K1=1.65 K(Sr+HL)=0.91	1938CKa (31365)	226

****

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
Sr++	gl	NaNO3	25°C	0.10M	C	M	K1=3.93 K(SrA+L)=4.13 B(SrAL)=8.11	2000KAb (31946)	227

H2A=Dipicolinic acid.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	M		K1=2.68	1981GVa (31947)	228
Sr++	gl	KCl	25°C	0.10M	U		K1=1.48	1953LMa (31948)	229

****

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
Sr++	dis	R4N.X	?	0.10M	U		K1=3.3	1969ASb (32364)	230

Medium: NH4Cl. Method: chromatography

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	20°C	0.10M	U	H	K1=2.23	1964ANa (32365)	231

By calorimetry: DH(K1)=0.4 kJ mol-1, DS=43.9 J K-1 mol-1

****

C4H7N3O L Creatinine CAS 60-27-5 (3005)

1-Methyl-2-imino-imidazolidine-4-one;

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

Sr++ ix oth/un 25°C 0.16M U K1=0 1954SCa (32439) 232
****
C4H8O2 HL CAS 107-92-6 (1118)
n-Butanoic acid; CH3.CH2.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ oth none 25°C 0 U T H K1=2.44 1994SHd (33348) 233
Data also at 35, 45 55 C. DH(K1)=1.7 KJ mol-1, DS=52.5 J K-1 mol-1

Sr++ sol NaClO4 25°C 2.00M U I K1=0.73 B2=0.82 1977FKa (33349) 234

Sr++ sol none 25°C 0.0 U K1=0.15 1952CMf (33350) 235

Sr++ EMF KCl 25°C 0.20M U K1=0.36 1938CKa (33351) 236
Method: H electrode
****
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
---
Sr++ EMF NaClO4 25°C 1.0M U K1=0.55 B2=0.73 1965VTa (33520) 237
Method: quinhydrone electrode
****
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
---
Sr++ EMF KCl 25°C 0.20M U K1=0.47 1938CKa (33629) 238
Method: H electrode
****
C4H10O2S L CAS 111-48-8 (4275)
3-Thiapentan-1,5-diol; HO.CH2.CH2.S.CH2.CH2.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaClO4 25°C 1.0M C K1=-0.11 1979SRa (34688) 239
****
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
---
Sr++ gl R4N.X 25°C 1.00M C I K1=0.11 1982SSf (35065) 240
In 90 % (v/v) DMSO/water mixture: K1=0.76 (I=0.25 M)
****
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
Sr++	gl	KNO3	25°C	0.10M	C		K1=6.38 K(SrL+H)=8.06 K(SrHL+H)=5.56 K(SrH2L+H)=4.0	2000SDa (35115)	241

C4H11O4P H2L (5867)
n-Butyl phosphoric acid; C4H9.O.PO(OH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.10M	C		K1=1.30	1988MSa (35289)	242

C4H12O7P2 H3L CAS 52811-47-9 (7665)
N-Butyldiphosphoric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.10M	M		K1=2.42	1999SSa (35587)	243

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
Sr++	gl	KCl	25°C	0.10M	U		K1=<1	1965DKb (35894)	244

C5H2O5 H2L Croconic acid CAS 488-86-8 (1643)
4,5-Dihydroxycyclopent-4-ene-1,2,3-trione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sol	KCl	25°C	0.30M	U		K1=1.21 Kso=-5.08	1965CDa (35949)	245

C5H4NBr L CAS 1120-87-2 (8780)
4-Bromopyridine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.50M	C		K1=-0.06	2002KSb (36005)	246

C5H4NCl L CAS 626-60-8 (322)
3-Chloropyridine; C5H4N.Cl

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.50M	C		K1=-0.12	2002KSb (36026)	247

****

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
Sr++	gl	NaClO4	25°C	0.50M	U	I	1983MDa (36120)		248
							K(Sr+H2L)=1.62 (2.22 in 0.1 M)		
							K(Sr+2H2L)=3.48		
							K(Sr+HL)=3.98		
							K(Sr+2HL)=7.25		

****

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
Sr++	gl	NaClO4	30°C	0.20M	U	T H	K1=2.01	1976SSd (36264)	249

****

C5H5N L Pyridine CAS 110-86-1 (31)
Pyridine, Azine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.50M	C		K1=-0.12	2002KSb (36683)	250

****

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
Sr++	gl	NaNO3	25°C	0.50M	C		K1=-0.24	2002KSb (36861)	251

****

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
Sr++	gl	NaNO3	25°C	0.50M	C		K1=-0.22	2002KSb (37132)	252

****

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
Sr++	ix	oth/un	25°C	0.16M	U		K1=1.3	1952SLa (37374)	253

****

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
-------------------------------------------------------------------------
Sr++       ix  oth/un 25°C 0.16M U        K1=0.96        1952SLa (37451) 254
*************************************************************************
C5H6O5                H2L    Ketoglutaric     CAS 328-50-7  (1146)
2-Ketoglutaric acid; HOOC.CH2.CH2.CO.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       ix  oth/un 25°C 0.16M U        K1=1.14        1952SLa (37474) 255
*************************************************************************
C5H6O7                H3L                        (8107)
Carboxymethyltartronic acid;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  KCl    25°C 0.10M C        K1=3.79        1984MMg (37493) 256
                                         K(SrL+H)=2.91
*************************************************************************
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
-------------------------------------------------------------------------
Sr++       gl  diox/w 28°C  70%  U        K1=5.66   B2=10.58  1992ZHa (38086) 257
-------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C        K1=1.75        1982HNa (38087) 258
-------------------------------------------------------------------------
Sr++       gl  diox/w 24°C  50%  U        K1=2.7         1979ACa (38088) 259
-------------------------------------------------------------------------
Sr++       gl  diox/w 20°C  17%  C        K1=5.46   B2=9.47   1976JWa (38089) 260
*************************************************************************
C5H8O4                H2L                      CAS 595-46-0  (1144)
Dimethylmalonic acid; HOOC.C(CH3)2.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  NaClO4 25°C 0.10M U        K1=1.33        1968OVa (38217) 261
*************************************************************************
C5H8O4                H2L                      CAS 601-75-2  (479)
Ethylpropanedioic acid; HOOC.CH(C2H5).COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  NaClO4 25°C 0.10M U        K1=1.40        1968OVa (38250) 262
*************************************************************************
C5H8O4                H2L    Glutaric acid    CAS 110-94-1  (420)
Pentanedioic acid; HOOC.CH2.CH2.CH2.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

```
------------------------------------------------------------------------------
Sr++       ix  oth/un 25°C 0.16M U        K1=0.6         1952SLa (38359) 263
******************************************************************************
C5H8O7               H2L                     CAS 40120-71-6  (3022)
2,3,4-Trihydroxypentanedioic acid, Trihydroxyglutaric acid; HOOC.(CH(OH))3.COOH
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Sr++       ix  R4N.X    ?  0.10M U        K1=2.5         1962BAb (38440) 264
Medium: NH4Cl
******************************************************************************
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
------------------------------------------------------------------------------
Sr++       ix  oth/un 25°C 0.16M U        K1=0.04        1954SCa (38752) 265
******************************************************************************
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
------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C    M   K1=2.45        2000KAb (39126) 266
                                          K(SrA+L)=2.53
                                          B(SrAL)=6.51
H2A=Dipicolinic acid.
------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M M        K1=2.41        1981GVa (39127) 267
------------------------------------------------------------------------------
Sr++       ix  NaCl   25°C 0.16M U        K1=0.69        1954SCa (39128) 268
------------------------------------------------------------------------------
Sr++       gl  KCl    25°C 0.10M U        K1=1.37        1953LMa (39129) 269
******************************************************************************
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
------------------------------------------------------------------------------
Sr++       gl  KCl    25°C 0.10M U   H    K1=2.96   B2=4.76   1968NPb (39283) 270
By calorimetry: DH(K1)=-3.5 kJ mol-1, DS=44.7 J K-1 mol-1
------------------------------------------------------------------------------
Sr++       cal KNO3   20°C 0.10M U   H                   1965ANa (39284) 271
DH(K1)=-5.1 kJ mol-1, DS=37.2 J K-1 mol-1
------------------------------------------------------------------------------
Sr++       EMF oth/un 25°C  ->0  U   H                   1956MAa (39285) 272
Method: H electrode. DG(K1)=-20.9 kJ mol-1, DH=8.4, DS=88
------------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U        K1=2.85        1955SAa (39286) 273
******************************************************************************
```

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
Sr++	gl	KCl	30°C	0.10M	U		K1=2.2	1967GNb (39573)	274
Sr++	cal	KNO3	30°C	0.10M	U	H		1967GNc (39574)	275

DH(K1)=-0.4 kJ mol-1, DS=42 J K-1 mol-1

****

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
Sr++	gl	KCl	30°C	0.10M	U		K1=2.3 K(Sr+HL)=0.7	1967GNb (39599)	276
Sr++	cal	KNO3	30°C	0.10M	U	H		1967GNc (39600)	277

DH(K1)=-2.9 kJ mol-1, DS=38 J K-1 mol-1

****

C5H10NO7P H4L PMIDA CAS 5994-61-6 (2433)
N-(Phosphonomethyl)iminodiethanoic acid; H2O3P.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	C		K1=5.86 K(SrL+H)=7.05 K(SrHL+H)=4.7	2000SDa (39684)	278
Sr++	gl	KCl	30°C	0.10M	U		K1=5.4	1958OMb (39685)	279
Sr++	EMF	KCl	20°C	0.10M	U		K1=5.59 K(Sr+HL)=1.63	1949SAa (39686)	280

Method: H electrode

****

C5H10N2O2 HL CAS 2762-32-5 (3041)
Piperazine-2-carboxylic acid; C4H9N2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	22°C	0.10M	U		K1=3.3	1960REb (39725)	281

****

C5H10O2 HL n-Valeric acid CAS 109-52-4 (3027)
Pentanoic acid; CH3(CH2)3.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sol	oth/un	25°C ->0		U		K1=-0.18	1952CMf (40203)	282

****

C5H10O2 HL Pivalic acid CAS 75-98-9 (3026)
Trimethylethanoic acid, 2,2-Dimethylpropanoic acid; (CH3)3C.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sol	oth/un	25°C	->0	U		K1=0.14	1952CMf (40220)	283

****
C5H10O5 L D-Ribose CAS 50-69-1 (512)
D-Ribose;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	none	25°C	0.0	U	H	K1=0.32	1991MLa (40356)	284

DH(K1)=-13 kJ mol-1
****
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
Sr++	gl	NaNO3	25°C	0.10M	C	M	K1=3.80	2000KAb (40847)	285
							K(SrA+L)=3.86		
							B(SrAL)=7.78		

H2A=Dipicolinic acid.
****
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
Sr++	gl	NaNO3	25°C	0.10M	C		K1=1.25	1988MSa (41425)	286

****
C5H13NO7P2 H4L CAS 75006-88-1 (640)
1-Acetylaminopropylidene-1,1-diphosphoric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	30°C	0.15M	U		K1=5.28 B2=8.09	1983LSa (41755)	287
							K(Sr+HL)=2.39		
							K(Sr+SrL)=1.80		

****
C5H13NO7P2 H4L CAS 88216-82-4 (641)
1-Propanoylaminoethylidene-1,1-diphosphoric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	30°C	0.15M	U		K1=4.81	1983LSa (41759)	288
							K(Sr+HL)=2.40		
							K(Sr+SrL)=2.87		

****

C5H14NO4P H2L (8071)
1-Amino-2-hydroxypentane-2-phosphonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaClO4	25°C	0.1M	U		K1=3.86 K(Sr+HL)=2.90	1975SLa (41838)	289

****
C5H15NO7P2 H4L AMOK CAS 63132-39-8 (1350)
1-Hydroxy-3-N,N-dimethylaminopropane-1,1-diphosphonic acid;
Me2N.CH2.CH2.C(OH)(PO3H2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	U		K1=4.85 K(Sr+HL)=4.72	1979KBa (41958)	290

****
C6H3N3O7 HL Picric acid CAS 88-89-1 (593)
2,4,6-Trinitrophenol; HO.C6H2(NO2)3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	con	none	30°C	0.0	U	I M	K2=1.66	1979PSa (42149)	291
Sr++	sp	oth/un	25°C	->0	U		K1=3.69	1960KAb (42150)	292
Sr++	sp	oth/un	21°C	0.40M	U		B2=2.85	1955BKa (42151)	293

Medium:0.2-0.6(some EtOH)
****
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
Sr++	sp	oth/un	21°C	0.40M	U		B2=1.89	1955BKa (42239)	294

Medium: 0.2-0.6, some EtOH
****
C6H4N2O6 H2L CAS 7659-29-2 (2694)
1,2-Dihydroxy-3,5-dinitrobenzene; (HO)2.C6H2(NO2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	M		K1=2.28 B2=4.54	1987HAb (42267)	295

****
C6H5NO2 HL Picolinic acid CAS 98-98-6 (391)
2-Pyridine-carboxylic acid; C5H4N.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	20°C	0.10M	U		K1=1.70	1960ANb (42599)	296

Sr++ gl oth/un 25°C 0.0 U K1=1.79 B2=4.77 1957LUa (42600) 297

Sr++ gl NaNO3 25°C 0.10M U K1=2.4 1957SYb (42601) 298
****
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
---
Sr++ gl KCl 25°C 0.10M M K1=3.14 1986HAc (42863) 299
****
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
---
Sr++ gl KCl 25°C 0.10M M K1=2.81 B2=5.18 1985HAa (42943) 300
****
C6H6NBr L (8782)
5-Bromo-2-methylpyridine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.50M C K1=-0.19 2002KSb (43196) 301
****
C6H6NCl L CAS 10445-91-7 (8781)
4-(Chloromethyl)pyridine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.50M C K1=-0.06 2002KSb (43212) 302
****
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
---
Sr++ gl NaNO3 25°C 0.10M C K1=1.12 1988MSa (43250) 303
****
C6H6O5S H3L CAS 7134-09-0 (3687)
3,4-Dihydroxybenzenesulfonic acid; (HO)2.C6H3.SO3H

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 30°C 0.10M U K1=3.61 1963MNc (44285) 304
****
C6H6O6 H3L trans-Aconitic CAS 4023-65-8 (3065)
trans-1,2,3-Propenetricarboxylic acid; HOOC.CH:C(COOH)CH2.COOH

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       ix  oth/un 25°C 0.16M U        K1=1.51        1952SLa (44306) 305
*************************************************************************
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
-------------------------------------------------------------------------
Sr++       gl  KCl    25°C 0.10M U        K1=4.55        1964PCa (44495) 306
                                         K(Sr+HL)=1.88
*************************************************************************
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
-------------------------------------------------------------------------
Sr++       gl  KCl    25°C 0.10M C        K1=4.69        1984MMg (44540) 307
                                         K(SrL+H)=3.34
*************************************************************************
C6H7N                   L    Picoline         CAS 109-06-8  (320)
2-Methylpyridine; C5H4N.CH3
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.50M C        K1=-0.15       2002KSb (44616) 308
*************************************************************************
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
-------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.50M C        K1=-0.19       2002KSb (44707) 309
*************************************************************************
C6H7O4P               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
-------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C        K1=1.26        1988MSa (45234) 310
*************************************************************************
C6H8N2O4              H2L                      (3100)
Cyanomethyliminodiethanoic acid; NC.CH2.N(CH2.COOH)2
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U        K1=2.15        1955SAa (45419) 311
*************************************************************************
C6H8O6                H3L    Tricarballylic   CAS 99-14-9  (1620)
1,2,3-Propanetricarboxylic acid; HOOC.CH2.CH(COOH).CH2.COOH
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ix	oth/un	25°C	0.16M	U		K1=1.68	1952SLa (45574)	312

****

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
Sr++	gl	NaClO4	25°C	1.00M	M	M		1988MOa (45657)	313
							K(Sr+H2L+(tartrate))=4.06		
Sr++	gl	NaClO4	20°C	1.00M	M			1983MOa (45658)	314
							K(Sr+HL)=1.02		
							K(Sr+2HL)=1.97		
Sr++	ix	oth/un	25°C	0.16M	U		K1=0.35	1952SLa (45659)	315

****

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
Sr++	ix	oth/un	25°C	0.16M	U		K1=2.02	1952SLa (45735)	316

****

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
Sr++	gl	NaClO4	30°C	1.0M	U		K1=2.88	1988GMd (46259)	317
Sr++	oth	oth/un	25°C	dil	C		K1=4.410	1982HKa (46260)	318
							K(Sr+HL)=2.815		

Method: isotachophoresis. Medium: 0.006-0.019 M citrate buffer, pH 5.1.

Sr++	dis	R4N.X	25°C	0.50M	U			1976MKa (46261)	319
							K(Sr+HL)=1.99		
Sr++	ix	R4N.X	22°C	1.0M	U		K1=2.24	1962TAa (46262)	320
Sr++	gl	NaClO4	32°C	0.25M	U		K1=2.7	1961PPa (46263)	321
Sr++	ix	oth/un	25°C	0.16M	U		K1=2.85	1952SCa (46264)	322
Sr++	ix	R4N.X	25°C	1.05M	U		K1=2.2	1948SRa (46265)	323
Sr++	ix	oth/un	37°C	0.16M	U		K1=2.7	1948SRa (46266)	324

```
Sr++       EMF oth/un 25°C 0.15M U        K1=2.90        1946JOa (46267) 325
--------------------------------------------------------------------------------
Sr++       con oth/un 25°C 0.16M U        K1=2.70        1934HMa (46268) 326
********************************************************************************
C6H8O7P2              H3L                     CAS 101378-64-7  (7666)
Phenyldiphosphoric acid;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M M        K1=2.38        1999SSa (46347) 327
********************************************************************************
C6H9NO6               H3L                     CAS 41035-84-1  (4367)
N-Carboxymethyl-L-aspartic acid;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=3.32        1975GNb (46380) 328
********************************************************************************
C6H9NO6               H3L    NTA              CAS 139-13-9  (191)
Nitrilotriethanoic acid; N(CH2.COOH)3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KNO3   20°C 0.10M C TIH  R K1=5.00        1982ANa (47028) 329
IUPAC evaluation
--------------------------------------------------------------------------------
Sr++       dis R4N.X    ?  0.10M U        K1=5.5         1969ASb (47029) 330
Method: chromatography. Medium:NH4Cl
--------------------------------------------------------------------------------
Sr++       dis oth/un 20°C 0.10M U        K1=6.42        1969MBg (47030) 331
Method: paper electrophoresis
--------------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U      T K1=5.01        1966IMb (47031) 332
--------------------------------------------------------------------------------
Sr++       cal KNO3   20°C 0.10M U   H                   1964HDa (47032) 333
DH(K1)=-2.3 kJ mol-1, DS=87.4 J K-1 mol-1
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U T H  T K1=4.91        1960BMb (47033) 334
K1=4.90(0.5 C), 4.94(42.5 C). DH(K1)=0, DS=100 J K-1 mol-1
--------------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U      T K1=4.98        1955SAa (47034) 335
--------------------------------------------------------------------------------
Sr++       EMF oth/un 20°C  0.0  U        K1=6.73        1945SKb (47035) 336
Method: H electrode
********************************************************************************
C6H10N2O4             H2L                       (3104)
Piperazine-2,6-dicarboxylic acid;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
```

Sr++ gl KCl 22°C 0.10M U K1=2.1 1964PCa (47739) 337
****
C6H10N2O4 H2L CAS 89601-09-2 (3102)
trans-Piperazine-2,3-dicarboxylic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 22°C 0.10M U K1=2.3 1964PCa (47750) 338
****
C6H10N2O5 H2L ADA CAS 26239-55-4 (2747)
N-(2-Acetamido)iminodiethanoic acid; H2N.CO.CH2.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 20°C 0.10M U K1=3.03 1955SAa (47855) 339
****
C6H10O6 H2L CAS 23243-68-7 (242)
1,2-Bis(carboxymethoxy)ethane; HOOC.CH2.O.CH2.CH2.O.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M U K1=2.40 1974MSa (48352) 340

Sr++ gl oth/un 25°C 0.10M U K1=3.18 1961KEa (48353) 341
****
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
---
Sr++ gl KCl 20°C 0.10M U K1=3.62 1955SAa (48615) 342
K(Sr+HL)=2.21
****
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
---
Sr++ dis R4N.X ? 0.10M U K1=3.8 1969ASb (48792) 343
Method: chromatography. Medium: NH4Cl

Sr++ gl KCl 20°C 0.10M U K1=3.77 1955SAa (48793) 344
****
C6H11NO7S H3L CAS 39716-94-4 (3125)
N-2-Sulfoethyliminodiethanoic acid (taurine-NN-diacetic acid)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF KCl 20°C 0.10M U K1=3.26 1949SAa (48847) 345
Method: H electrode

****

C6H12NO7P H4L CAS 55339-27-0 (3127)
N-2-Phosphoethyliminodiethanoic acid; H2O3P.CH2.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	EMF	KCl	20°C	0.10M	U		K1=4.10 K(Sr+HL)=1.59	1949SAa (49035)	346

Method: H electrode

****

C6H12N2O4 H2L EDDA CAS 5657-17-0 (119)
1,2-Diaminoethane-N,N'-diethanoic acid; HOOC.CH2.NH.CH2.CH2.NH.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	NaClO4	25°C	0.10M	U	H	K1=2.3	1983EHa (49271)	347

DH1=3.4 kJ mol-1, DS1=54.8 J K-1 mol-1

****

C6H12N2O4 H2L N,N-EDDA CAS 5835-29-0 (2333)
1,2-Diaminoethane-N,N-diethanoic acid; H2N.CH2.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=3.55	1955SAa (49308)	348

****

C6H12O6 L CAS 576-63-6 (2284)
cis-Inositol, cyclohexane-1,2,3,4,5,6-hexol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ISE	none	25°C	0.0	C		K1=0.78 B2=2.4	1975AHa (49628)	349

****

C6H12O6 L CAS 488-58-4 (2283)
epi-Inositol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ISE	none	25°C	0.0	C		K1=0.32	1975AHa (49631)	350

****

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
Sr++	ix	oth/un	25°C	0.16M	U		K1=1.01	1952SLa (49761)	351
Sr++	EMF	KCl	20°C	0.20M	U		K1=1.00	1938CKa (49762)	352

Method: H electrode

****

C6H14O3 L Diglyme CAS 111-96-6 (6769)

bis-2-Methoxyethyl ether, 2,5,8-Trioxanonane; CH3.O.CH2CH2.O.CH2CH2.O.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	non-aq	25°C	100%	C	H		1992BSc (51053)	353

Medium: propylene carbonate. DH(K1)=-13.0 kJ mol-1.

****

C6H15NO3 Triethanolamine CAS 102-71-6 (447)
Tris-(2-hydroxyethyl)amine; L

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	R4N.X	25°C	1.00M	C	I	K1=0.38	1982SSf (51304)	354

In 90 % (v/v) DMSO/water mixture: K1=0.80 (I=0.25 M)

****

C6H16NO4P H2L (8073)
1-Amino-2-hydroxy-4-methylpentane-2-phosphonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaClO4	25°C	0.1M	U		K1=3.89 K(Sr+HL)=2.90	1975SLa (51563)	355

****

C6H16NO4P 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
Sr++	gl	NaNO3	25°C	0.10M	M		K1=0.83	2002FGb (51575)	356

****

C6H16O4P2 H2L CAS 55743-51-6 (1359)
1-Diethylphosphinyl-2-dihydroxyphosphinylethane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	U		K1=2.11	1974KMb (51782)	357

****

C6H16O6P2 H4L CAS 4721-22-6 (3708)
Hexane-1,6-diphosphonic acid; H2O3P(CH2)6PO3H2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	U		K1=<2	1967KLa (51795)	358

****

C6H17N2O3P H2L (7486)
N,N,N'-Trimethyldiaminoethane-N'-methylphosphonic acid;
(CH3)2N.CH2CH2.N(CH3)CH2PO3H2

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

```
Sr++       gl  KNO3   25°C 0.10M C        K1=6.63        1999DOa (51828) 359
                                          K(SrL+H)=9.45
                                          K(SrHL+H)=8.04
                                          K(SrH2L+H)=6.23
                                          K(SrH3L+H)=4.4
*************************************************************************
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
-------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M C        K1=3.27        1999DOa (51954) 360
                                          K(SrL+H)=10.24
                                          K(SrHL+H)=7.2
*************************************************************************
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
-------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M C        K1=3.84        1999DOa (51972) 361
                                          K(SrL+H)=10.99
                                          K(SrHL+H)=7.8
*************************************************************************
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
-------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M C   H    K1=7.56        1993SMa (52362) 362
                                          K(SrL+H)=10.08
                                          K(SrHL+H)=8.50
                                          K(SrH2L+H)=6.91
                                          K(SrH3L+H)=5.82
DH(K1)=-1.2, DH(SrHL)=-17.5, DH(SrH2L)=-7.5, DH(SrH3L)=-12.5, DH(SrH4L)=0.8
kJ mol-1.
-------------------------------------------------------------------------
Sr++       dis R4N.X  20°C 0.10M U        K1=5.41        1970TIa (52363) 363
Medium: NH4Cl. Method: chromatography
-------------------------------------------------------------------------
Sr++       EMF KCl    20°C 0.10M U        K1=5.30        1970TIa (52364) 364
                                          K(Sr+HL)=4.24
                                          K(Sr+H2L)=2.92
                                          K(SrL+Sr)=2.52
*************************************************************************
C7H4NO4Cl             H2L                      CAS 4722-94-5  (3780)
4-Chloropyridine-2,6-dicarboxylic acid; Cl.C5H2N(COOH)2
-------------------------------------------------------------------------
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  NaClO4 22°C 0.10M U        K1=3.29        1964BBe (52385) 365
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=2.1         1958YYa (52630) 366
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=2.1         1958YYa (52653) 367
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C        K1=3.98        2000KAb (52806) 368
--------------------------------------------------------------------------
Sr++       gl  oth/un 25°C 0.10M U        K1=3.80   B2=5.50   1966BSe (52807) 369
By ion exchange: K2=1.96
--------------------------------------------------------------------------
Sr++       gl  NaNO3  20°C 0.10M U        K1=3.89        1960ANb (52808) 370
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=3.9         1957SYb (52809) 371
**************************************************************************
C7H5NO4                HL                     CAS 97-51-8  (1887)
5-Nitrosalicylaldehyde; O2N.C6H3(OH).CHO
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  diox/w 25°C  50%  U T      K1=3.16   B2=5.81   1973CGc (52937) 372
Medium: 50% dioxan, 0.3 M NaClO4.  Temperature range 15-50 C
K1(15 C)=3.12, K1(50 C)=2.42, K2(15 C)=2.61, K2(50 C)=1.92
**************************************************************************
C7H5NO5               H3L                    CAS 499-51-4  (3150)
4-Hydroxypyridine-2,6-dicarboxylic acid; HO.C5H2N(COOH)2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  NaClO4 22°C 0.10M U        K1=4.34        1964BBa (53076) 373
--------------------------------------------------------------------------
Sr++       gl  oth/un 20°C 0.10M U        K1=4.5         1963ANd (53077) 374
                                        K(SrL+H)=7.43
```

****
C7H5O2Br HL CAS 1761-61-1 (1886)
5-Bromosalicylaldehyde; Br.C6H3(OH).CHO

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl diox/w 25°C 50% U T K1=3.09 B2=5.73 1973CGc (53132) 375
Medium: 50% dioxan, 0.3 M NaClO4. Temperature range 15-50 C
K1(15 C)=3.13, K1(50 C)=3.02, K2(15 C)=2.64, K2(50 C)=2.45
****
C7H5O2Cl HL CAS 635-93-8 (3145)
5-Chlorosalicylaldehyde; HO.C6H3(Cl).CHO

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl diox/w 25°C 50% U T K1=3.06 B2=5.65 1973CGc (53224) 376
Medium: 50% dioxan, 0.3 M NaClO4. Temperature range 15-50 C
K1(15 C)=3.11, K1(50 C)=2.96, K2(15 C)=2.60, K2(50 C)=2.53
****
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
---
Sr++ gl KNO3 20°C 0.10M U K1=4.17 1965ABa (53512) 377

Sr++ gl NaClO4 22°C 0.10M U K1=4.22 1964BBa (53513) 378
****
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
---
Sr++ sp NaClO4 25°C 0.10M U K1=2.45 1970HOa (53692) 379
****
C7H6O2 HL Benzoic Acid CAS 65-85-0 (462)
Benzenecarboxylic acid; C6H5.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 100% M K1=4.0 B2=6.4 1988PPa (53856) 380
Medium: MeOH
****
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
---
Sr++ gl alc/w 25°C 100% M 1988JTa (54299) 381
K(Sr+HL)=3.9

K(Sr+2HL)=6.2

Medium: MeOH

Sr++ cal alc/w 25°C 100% U H 1988PPa (54300) 382

Medium: MeOH. DH(SrL)=23.3 kJ mol-1; DS=153. DH(SrL2)=19.2; DS=189

****

C7H7NO2 HL Anthranilic CAS 118-92-3 (1589)

2-Aminobenzoic acid, Anthranilic acid; H2N.C6H4.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	oth/un	25°C	->0	U		K1=0.58	1958LUa (55262)	383

****

C7H7NO2 H2L Salicylaldoxime CAS 94-67-7 (1486)

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	oth/un	25°C	->0	U			1958LUa (55313)	384

K(Sr+2HL)=3.77

****

C7H7NO2 HL CAS 3222-47-7 (3154)

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	20°C	0.10M	U		K1=2.1	1960ANb (55432)	385

****

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
Sr++	gl	NaNO3	25°C	0.10M	C		K1=3.12	2000KHa (55610)	386

****

C7H9N L 3,5-Lutidine (323)

3,5-Dimethylpyridine; C5H3N.(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.50M	C		K1=-0.16	2002KSb (56289)	387

****

C7H9NO8 H4L (8068)

2-Aminopropane-1,3-dioic-N,N-bis(ethanoic acid);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.1M	U		K1=6.02	1976NGb (56468)	388

****

C7H9NO8 H4L CAS 4379-32-2 (5702)

2-Aminopropane-1,3-dioic-N-2-butane-1,4-dioic acid; (HOOC)2CH.NH.CH(COOH)CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=3.26	1988KMa (56474)	389

****

C7H11NO5 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
Sr++	gl	KNO3	25°C	0.10M	U		K1=3.6	1963ANa (56831)	390

****

C7H11NO6 H3L (2926)

2-Aminobutanoic-N-propane-1,3-dioic acid; HOOC.CH(C2H5)NH.CH(COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=2.14	1982KKa (56852)	391

****

C7H11NO6 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
Sr++	EMF	KCl	20°C	0.10M	U		K1=3.87	1949SAa (56884)	392

Method: H electrode

****

C7H11NO6 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
Sr++	gl	KNO3	20°C	0.10M	U		K1=5.13	1974RMf (56917)	393
Sr++	gl	KCl	20°C	0.10M	U		K1=5.18	1966IMa (56918)	394

****

C7H11NO6P2 H4L CAS 4712-06-5 (4470)

Amino(phenyl)methylenediphosphonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	U		K1=5.54	1969DMd (56944)	395
							K(Sr+HL)=4.55		

****

C7H12N2O5 H2L Gly-Glu CAS 7412-78-4 (280)

Glycyl-glutamic acid; H2N.CH2.CO.NH.CH(CH2.CH2.COOH).COOH

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

Sr++ gl KNO3 20°C 0.10M U K1=2.94 1980BBc (57177) 396
****
C7H12N3O5P H2L PMEC CAS 117087-39-5 (8366)
1-[2-(Phosphonomethoxy)ethyl]cytosine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.10M M K1=1.41 1999BHb (57202) 397
K(Sr+HL)=0.0
K(SrL+H)=5.5
****
C7H12O4 HL CAS 96740-23-7 (2249)
1,5-Dimethoxy-pent-2,4-dione, CH3.O.CH2.CO.CH2.CO.CH2.O.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl diox/w 24°C 50% U K1=2.7 1979ACa (57294) 398
****
C7H13NO4S H2L (3184)
N-(2-Methylthioethyl)iminodiethanoic acid; CH3.S.CH2.CH2.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 20°C 0.10M U K1=2.71 1955SAa (57550) 399
****
C7H13NO5 H2L CAS 62117-07-1 (3171)
N-(2-Methoxyethyl)iminodiethanoic acid; CH3.O.CH2.CH2.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 20°C 0.10M U K1=3.84 1955SAa (57578) 400
****
C7H14N2O4 H2L TriMe-EDDA CAS 7597-26-4 (265)
1,3-Propanediamine-N,N'-diethanoic acid; HOOC.CH2.NH.(CH2)3.NH.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal NaClO4 25°C 0.10M U H K1=1.3 1983EHa (57817) 401
DH1=2.9 kJ mol-1, DS1=34.9 J K-1 mol-1
****
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
---
Sr++ gl NaNO3 25°C 0.10M M K1=0.94 2003FHa (57844) 402
****
C7H22N2O13P4 H8L DPPH CAS 54622-43-4 (2651)
2-Hydroxy-1,3-diaminopropane-N,N,N'N'-tetramethylphosphonic acid;
HO.CH(CH2.N(CH2.PO3H2)2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ ISE KNO3 25°C 0.1M U K1=6.77 1985SNd (58387) 403
B(SrHL)=16.86
B(SrH3L)=34.23
B(SrH2L)=26.40
B(SrH4L)=40.61
B(SrH5L)=46.14
B(Sr2L)=6.88
****
C8H5N5O6 H3L Murexide (453)
Purpuric acid (Murexide is ammonium salt);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% U T H K1=4.67 1994GSb (58533) 404
At 35 C: K1=4.61; 45 C: K1=4.56; 55 C: K1=4.51. DH(K1)=-10 kJ mol-1, DS=57
Medium: DMSO

Sr++ sp non-aq 20°C 100% U K1=5.12 1992PSa (58534) 405
Medium: DMF, 0.01 M Me4NI

Sr++ sp alc/w 25°C 100% U I K1=5.68 1988KGa (58535) 406
Medium: MeOH. Also in DMF (K1=4.52) and DMSO (4.35).

Sr++ sp alc/w 25°C 100% U I K1=5.68 1987GKb (58536) 407
Medium: MeOH. Also in DMF (K1=4.52) and DMSO (K1=4.35)

Sr++ sp non-aq 25°C 100% U K1=4.31 1983PSc (58537) 408
Medium: DMSO
****
C8H5O2F3S HL TTA CAS 326-91-0 (165)
4,4,4-Trifluoro-1-(2-thienyl)butane-1,3-dione; F3C.CO.CH2.CO.C4H3S

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl diox/w 20°C 17% C K1=6.77 B2=11.95 1976JWa (58679) 409
****
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
---
Sr++ gl NaCl 25°C 0.10M U K1=2.38 1989SKa (59014) 410

Sr++ gl NaClO4 25°C 0.02M U K1=2.45 1985GMc (59015) 411

Sr++ gl oth/un 25°C .493M U T H K1=2.55 1975PAc (59016) 412
10 C: K1=2.53; 15 C: 2.54; 20 C: 2.52; 35 C: 2.55

****

C8H8N2O4 H2L (3823)
4-(Methylamino)pyridine-2,6-dicarboxylic acid; CH3.NH.C5H2N(COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	NaClO4	22°C	0.10M	U		K1=4.32		1964BBa (59353)	413

****

C8H8O3 HL o-Anisic acid CAS 579-75-9 (2337)
2-Methoxybenzoic acid; CH3O.C6H4.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	alc/w	25°C	100%	M				1988JTa (59752)	414
							K(Sr+HL)=4.7			
							K(Sr+2HL)=7.2			

Medium: MeOH

****

C8H8O4 HL (6840)
3-Acetyl-4-Hydroxy-6-methyl-2-pyrone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	mixed	24°C	50%	U		K1=2.45	B2=4.65	1993ZMa (60107)	415

Medium: 50% v/v acetone/H2O

****

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
Sr++	cal	KNO3	25°C	0.1M	C	H			1981CSb (60654)	416
DH(K1)=-8.4 kJ mol-1, DS=96 K J mol-1										
Sr++	gl	KNO3	25°C	0.10M	U	T	K1=6.82		1977SVa (60655)	417
Sr++	cal	R4N.X	20°C	0.1M	C				1976ANb (60656)	418
							DH1= -12.1 kJ/mol			
in Me4NCl										
Sr++	gl	R4N.X	25°C	0.10M	C		K1=7.02		1975JTa (60657)	419
Sr++	gl	KNO3	20°C	0.10M	U		K1=6.93	B2=11.03	1963IFb (60658)	420

****

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
Sr++	gl	KCl	25°C	0.10M	U	T H			1986CVb (61086)	421

```
                                        K(Sr+HL)=3.65
                                        K(Sr+2HL)=5.10
Data for 0-37 C. At 37 C, K(Sr+HL)=3.50, K(Sr+2HL)=4.75.
DH(Sr+HL)=-4.35 kJ mol-1, DS=-55.7 J K-1 mol-1; DH(Sr+2HL)=-4.35, DS=-13.3
********************************************************************************
C8H11NO3            H2L    Noradrenaline    CAS 138-65-8  (253)
Norepinephrine, 3,4-Dihydroxyphenylethanolamine; (HO)2C6H3.CH(CH2.NH2).OH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KCl    25°C 0.10M U T H    K1=4.42   B2= 5.42  1982CVa (61168) 422
Data for 0 and 37 C. DH(K1)=-19.3 kJ mol-1, DS(K1)=9.2 J K-1 mol-1;
DH(K2)=-6.3, DS(K2)=3.8.
********************************************************************************
C8H11NO8            H4L                     CAS 24868-49-3  (2572)
2-Amino(N,N-diethanoic)-1,4-butanedioic acid;HOOCCH(N(CH2COOH)2)CH2COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=4.50        1975NGa (61186) 423
********************************************************************************
C8H11NO8            H4L                     CAS 7408-20-0  (2608)
Amino-di(butanedioic acid);HN(CH(COOH)CH2.COOH)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C  0.1M C        K1=3.36        1999VZb (61216) 424
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C  0.1M U        K1=3.37        1978MNa (61217) 425
********************************************************************************
C8H12N2O8           H4L                     CAS 35039-85-1  (4537)
1,2-Diaminoethane-N,N'-dimalonic acid; (HOOC)2.CH.NH.CH2.CH2.NH.CH(COOH)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KNO3   20°C 0.10M U        K1=4.19        1973DSc (61523) 426
                                        K(Sr+HL)=1.9
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=3.45        1972GBd (61524) 427
                                        K(Sr+HL)=1.80
                                        K(Sr+SrL)=2.12
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M M        K1=1.37        1992SCa (61655) 428
********************************************************************************
C8H13NO6            H3L                       (3835)
```

2-Amino-2-carboxypropane-N,N-diethanoic acid; HOOCC(CH3)2N(CH2COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	20°C	0.10M	U		K1=3.37	1974RMf (61769)	429
Sr++	gl	KCl	20°C	0.10M	U		K1=6.14	1966IMa (61770)	430

C8H13NO6 H3L (5681)
2-Aminobutanoic-N,N-diethanoic acid; CH3CH2CH(COOH)N(CH2COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	20°C	0.10M	U		K1=4.52	1974RMf (61795)	431

C8H13NO6S H3L (5675)
2-Mercapto-1-aminoethane-N,N,S-triethanoic acid; HOOC.CH2.S.CH2.CH2.N(CH2COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaClO4	25°C	0.10M	U		K1=3.39	1975POa (61832)	432

C8H13N6O4P H2L (7462)
9-[2-(Phosphonomethoxy)ethyl]-2,6-diaminopurine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.10M	M		K1=1.38	1999BSa (61877)	433
							K(Sr+HL)=0.0		

C8H14N2O4 H2L CAS 124099-98-5 (5607)
1,4-Piperazine-N,N'-diethanoic acid; HOOC.CH2.C4H8N2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	NaClO4	25°C	0.10M	U	H	K1=1.8	1985EHa (61948)	434

DH(K1)=1.3 kJ mol-1, DS=38.1 J K-1 mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	EMF	KCl	20°C	0.10M	U		K1=2.2	1963IPb (61949)	435

Method: H electrode

C8H14O7 H2L (241)
Di(carboxymethoxy)ethyl ether; (HOOC.CH2.O.CH2.CH2)2O

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=2.29	1974MSa (62150)	436

C8H16N2O4 H2L (266)
N,N'-Dimethylethylenediamine-N,N'-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M C K1=3.05 1993WLa (62532) 437

Sr++ cal NaClO4 25°C 0.10M U H K1=3.3 1983EHa (62533) 438
DH1=-2.7 kJ mol-1, DS1=54.0 J K-1 mol-1
****
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
---
Sr++ EMF oth/un 20°C 0.10M U K1=2.4 1972DKa (62589) 439

Sr++ gl KNO3 20°C 0.10M U K1=2.4 1970DKa (62590) 440
****
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
---
Sr++ cal alc/w 25°C 100% U H T K1=2.50 1987BUa (62727) 441
Medium: MeOH. DH(K1)=-12.4 kJ mol-1; DS=6.0 J K-1 mol-1; DH(B2)=-15.0.

Sr++ EMF non-aq 25°C 100% U T K1=5.29 B2=7.91 1982MRb (62728) 442
Medium: anhydrous propylene carbonate, 0.1M Et4NClO4
****
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
---
Sr++ sp alc/w 25°C 100% C K1=4.47 2002NFa (62850) 443
Medium: 100% MeOH. Method: electrospray ionization mass spectrometry.
****
C8H18N2O2 L CAS 122-96-3 (5902)
N,N-Bis(2-hydroxyethyl)piperazine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaCl 25°C 0.10M C K1=1.97 1999HLb (62860) 444
****
C8H18N2O10P2 H6L EDDADPO CAS 2310-83-0 (2436)
1,2-Diaminoethane-N,N'-diethanoic-N,N'-dimethylphosphonic acid;
(-CH2.N(CH2.COOH)(CH2.PO3H2))2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 25°C 0.10M U T K1=6.89 1965DKb (62905) 445

Sr++ ix oth/un 20°C 0.10M U K1=8.31 1965TIc (62906) 446
Medium: NH4+. By glass electrode, I=0.1 M KCl: K1=8.15
****
C8H18O4 L Triglyme CAS 112-49-2 (2358)
1,2-Bis(methoxyethoxy)ethane; CH3O.C2H4O.CH2.CH2.OC2H4.OCH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal non-aq 25°C 100% C H 1992BSc (62997) 447
Medium: propylene carbonate. DH(K1)=-27.3 kJ mol-1.
****
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
---
Sr++ gl mixed 25°C 90% C I K1=1.87 1982SSf (63068) 448
Medium: 90% DMSO/H2O

Sr++ gl KNO3 25°C 1.0M C K1=1.44 1980SAb (63069) 449
****
C8H22N2O6P2 H4L CAS 13516-59-1 (3850)
2,2'-(Ethylenedi-imino)bis(propylphosphonic acid);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 25°C 0.10M U K1=<1 1965DKb (63345) 450
****
C8H24N2O12P4S H8L CAS 33424-58-7 (2648)
1,7-Diaza-4-thiaheptane-1,1,7,7-tetra(methylphosphonic acid);
S(CH2.CH2.N(CH2.PO3H2)2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 20°C 0.10M U K1=4.40 1971TIa (63487) 451
K(Sr+H2L)=2.10
K(Sr+HL) =3.22
K(Sr+SrL)=1.12
By ion exchange K1=4.77
****
C8H24N2O13P4 H8L CAS 25007-19-4 (2647)
1,7-Diaza-4-oxaheptane-1,1,7,7-tetra(methylphosphonic acid);
O(CH2.CH2.N(CH2.PO3H2)2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl oth/un 20°C 0.10M U K1=6.03 1969TIa (63495) 452
K(Sr+HL)=4.64
K(Sr+H2L)=2.57

K(Sr+SrL)=2.49

****

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
Sr++	gl	NaNO3	25°C	0.50M	M		K1=-0.21		1998KSa (63507)	453

****

C9H5NOBr2 HL CAS 521-74-4 (3279)
5,7-Dibromo-8-hydroxyquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	dis	NaClO4	18°C	0.20M	U		K1=7.1	B2=13.60	1965NKa (63523)	454

****

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
Sr++	gl	oth/un	25°C	0.0	U		K1=2.07	B2=4.50	1955NUa (63914)	455

****

C9H7NO HL Oxine CAS 148-24-3 (504)
8-Hydroxyquinoline (8-quinolinol);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	dis	NaClO4	25°C	0.10M	U		K1=2.7		1960RYa (64349)	456
Sr++	dis	NaClO4	25°C	0.10M	U		K1=2.89	B2=3.19	1955DRa (64350)	457
Sr++	gl	oth/un	20°C	0.0	U		K2=2.56		1952NAa (64351)	458

****

C9H7NO4S H2L Sulfoxine CAS 84-88-8 (448)
8-Hydroxyquinoline-5-sulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	sp	oth/un	25°C	0.0	U		K1=2.75		1954NUa (64580)	459

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	alc/w	25°C	50%	U				1967NPb (64727)	460

K(Sr+HL) < 3

Medium: 50% MeOH, 0.1 M NaClO4

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=1.27	1957WSa (64785)	461

****
C9H8O4 HL Acetylsalicylic CAS 50-78-2 (1240)
2-Acetoxybenzoic acid, Acetylsalicylic acid; CH3.CO.O.C6H4.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	vlt	NaClO4	25°C	0.50M	C	T H	K1=5.07	1989GRb (64899)	462

Method: polarography. Medium: 0.50 M NH4ClO4, pH 4.8. Data for 25-45 C.
DH(K1)=-24.4 kJ mol-1, DS(K1)=14.9 J K-1 mol-1.
****
C9H8O4 H2L CAS 97652-17-0 (3855)
3-Carboxy-4-methyltropolone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sp	NaClO4	?	0.20M	U		K1=2.61	1967GDb (64955)	463

****
C9H9N3O4 HL CAS 89314-30-7 (8506)
2-[(4-Nitrophenyl)hydrazono]-propanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	alc/w	30°C	40%	M	M	K1=2.75 B2= 4.13	1995RRd (65151)	464
							K(SrL+A)=3.21		
							K(SrL+en)=5.65		
							K(SrL+pro)=2.75		
							K(SrL+B)=2.90		

Medium: 40% v/v EtOH/H2O, 0.10 M KNO3. K(SrL+ala)=2.55, K(SrL+gly)=0.87;
H2A is catechol, HB is hydroxyproline.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	alc/w	30°C	40%	M	M		1995RRd (65152)	465
							K(Sr(phen)+L)=2.60		
							K(SrA+L)=1.41		

Medium: 40% v/v EtOH/H2O, 0.10 M KNO3. H2A is salicylic acid.
****
C9H10N2O2 HL CAS 5330-70-1 (8505)
2-(Phenylhydrazono)-propanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	alc/w	30°C	40%	M	M	K1=3.02 B2= 4.74	1995RRd (65218)	466
							K(SrL+A)=3.13		
							K(SrL+en)=5.50		
							K(SrL+pro)=2.62		

```
                                        K(SrL+B)=2.66
Medium: 40% v/v EtOH/H2O, 0.10 M KNO3. K(SrL+ala)=2.51, K(SrL+gly)=0.84;
H2A is catechol, HB is hydroxyproline.
--------------------------------------------------------------------------------
Sr++       gl  alc/w  30°C  40%  M    M                  1995RRd (65219) 467
                                        K(Sr(phen)+L)=2.71
                                        K(SrA+L)=1.43
Medium: 40% v/v EtOH/H2O, 0.10 M KNO3. H2A is salicylic acid.
********************************************************************************
C9H10N2O4             H2L                      CAS 5648-29-1  (3871)
4-(N',N'-Dimethylamino)pyridine-2,6-dicarboxylic acid;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaClO4 22°C 0.10M U        K1=4.28        1964BBa (65267) 468
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  diox/w 25°C  50%  U                        1969ZSa (65279) 469
                                        K(Sr+H2L)=2.30
                                        K(Sr+HL)=4.49
********************************************************************************
C9H10O8               H4L                      CAS 3724-52-5  (1264)
cis-1,2,3,4-Cyclopentanetetracarboxylic acid; C5H6.(COOH)4
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaClO4 25°C 0.19M U        K1=5.90   B2= 8.75  1986MSc (65650) 470
********************************************************************************
C9H11NO                HL                       CAS 10229-63-7  (3872)
N-(Salicylidene)aminoethane; HO.C6H4.CH:N.CH2.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       sp  non-aq 25°C 100%  C        K1=1.98        2002CCc (65670) 471
Medium: acetonitrile.
********************************************************************************
C9H11NO5              H2L                      CAS 57362-11-5  (3876)
N-(2'-Furfuryl)iminodiethanoic acid; C4H3O.CH2.N(CH2.COOH)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KNO3   20°C 0.10M U        K1=2.79        1963IFa (66451) 472
********************************************************************************
C9H11N3O7             H3L                        (3877)
N-(1-Methyl-2,4,6-trioxo-perhydropyrimidinyl)iminodiethanoic acid;
--------------------------------------------------------------------------------
```

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  KNO3   20°C 0.10M U        K1=6.83   B2=11.02  1963IFb (66528) 473
*************************************************************************
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
-------------------------------------------------------------------------
Sr++       gl  KNO3   25°C  0.1M U        K1=7.05        1982KBe (66746) 474
*************************************************************************
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
-------------------------------------------------------------------------
Sr++       gl  KCl    25°C 0.10M U T H    K1=4.71   B2= 5.85  1983CVa (66868) 475
Data for 0 and 37 C. DH(K1)=-27.4 kJ mol-1, DS(K1)=-14.5 J K-1 mol-1;
DH(K2)=-22.3, DS(K2)=-37.8.
*************************************************************************
C9H13NO6              H3L                        (3881)
2,6-Dicarboxypiperidyl-N-ethanoic acid;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=3.81        1968KTd (66894) 476
*************************************************************************
C9H13NO8              H4L                        (7012)
1,3-Dicarboxypropane-1-iminodiethanoic acid; HOOC.CH(N(CH2COOH)2)CH2CH2COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=4.06        1977GNb (66909) 477
-------------------------------------------------------------------------
Sr++       gl  KNO3   25°C  0.1M U        K1=4.06        1976NGb (66910) 478
*************************************************************************
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
-------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C      T                1991SMa (66982) 479
                                        K(Sr+HL)=1.85
IUPAC evaluation
-------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C                       1988MSa (66983) 480
                                        K(Sr+HL)=1.25
*************************************************************************
```

C9H14N2O9 H4L CAS 56360-11-3 (2576)
2-Hydroxy-1,3-diaminopropane-N,N'-di(1,3-propanedioic acid)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=3.00 K(Sr+HL)=1.95	1975KGa (67138)	481

****

C9H14N2O12P2 H4L UDP CAS 58-98-0 (3288)
Uridine-5'-diphosphoric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.10M	M		K1=2.38 K(Sr+H2L)=1.2 K(SrHL+H)=5.2	1999SSa (67162)	482

****

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
Sr++	gl	R4N.X	25°C	0.10M	C	T	K1=1.77	1991SMa (67264)	483
IUPAC evaluation									
Sr++	gl	NaNO3	25°C	0.10M	C		K1=1.17	1988MSa (67265)	484
Sr++	ix	oth/un	25°C	0.16M	U		K1=1.6	1954SCa (67266)	485

****

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
Sr++	gl	KNO3	25°C	0.10M	U		K1=3.34	1964LMa (67326)	486

****

C9H14N5O3P H2L CAS 121149-93-7 (2512)
9-(4-Phosphonobutyl)adenine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.10M	M		K1=1.30 K(Sr+HL)=0.1 *K(SrHL)=-6.5	2000GKa (67359)	487

****

C9H15NO6 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

```
Sr++       gl  KNO3   20°C 0.10M U        K1=4.60        1974RMf (67414) 488
**************************************************************************
C9H15N3O11P2          H3L    CDP              CAS 63-38-7  (2187)
Cytidine-5'-diphosphoric acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M M        K1=2.33        1999SSa (67590) 489
                                         K(Sr+HL)=1.2
                                         K(SrL+H)=5.26
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U        K1=2.14        1955SAa (67631) 490
**************************************************************************
C9H19N2O4+            H2L                     (3277)
2-Di(carboxymethyl)aminoethyltrimethylammonium cation
           +
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U        K1=1.22        1955SAa (68005) 491
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       gl  KCl    25°C  1.0M U        K1=5.34        1984KMa (68326) 492
                                         K(Sr+HL)=2.40
--------------------------------------------------------------------------
Sr++       gl  oth/un 25°C 1.00M U        K1=5.34        1982PSc (68327) 493
                                         K(Sr+HL)=2.40
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U        K1=5.96        1968TIa (68414) 494
                                         K(Sr+HL)=4.55
                                         K(Sr+H2L)=3.13
                                         K(SrL+H)=9.62
                                         K(SrHL+H)=7.77
K(Sr+SrL)=2.48
**************************************************************************
```

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
Sr++	gl	none	25°C	0.0	C		Kso(SrH2L)=-16.5 K(Sr2L)=-10.8	1990CDc (68529)	495

Additional technique: spectrophotometry.

****

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
Sr++	gl	oth/un	25°C	0.0	U		K1=1.24	1955LUa (68721)	496

****

C10H7NO2 HL CAS 86-59-9 (873)
Quinoline-8-carboxylic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	oth/un	25°C	0.0	U		K1=1.18 B2=3.91	1955LUa (68772)	497

****

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
Sr++	cal	KCl	25°C	0.25M	U	H	K1=-0.1	1997MKb (69646)	498

DH(K1)=-15 kJ mol-1; DS=-48 J K-1 mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	oth/un	25°C	0.20M	U	TIH	K1=-0.25	1993DGa (69647)	499

DH(K1)=18 kJ mol-1, DS(K1)=54 J K-1 mol-1. Data for 5-45 C, 0.20-
0.75 M SrCl2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.25M	U	T H	K1=-0.16	1985CRa (69648)	500

K1=-0.02(10 C);K1=-0.30(40 C).
DH=-15.5 kJ mol-1, DS=-54 J mol-1 K-1

****

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
Sr++	gl	diox/w	20°C	75%	M	T	K1=6.79 B2=12.00	1980GMd (70440)	501

****

C10H10O2 HL Benzoylacetone CAS 93-91-4 (197)
1-Phenylbutane-1,3-dione; C6H5.CO.CH2.CO.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	diox/w	20°C	17%	C		K1=5.79	B2=10.17	1976JWa (70775)	502

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
Sr++	gl	NaClO4	25°C	0.10M	U		K1=2.3		1968SMb (70860)	503

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
Sr++	ISE	KCl	20°C	0.10M	U		K1=1		1947SWa (71009)	504

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
Sr++	gl	KNO3	20°C	0.10M	U		K1=4.65		1963IFb (71047)	505
							K(Sr+HL)=2.67			

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
Sr++	gl	KNO3	25°C	0.10M	U		K1=3.40		1965AUa (71062)	506

C10H11NO7S H3L (3335)
N-(2-Sulfophenyl)iminodiethanoic acid; HO3S.C6H4.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	EMF	KCl	20°C	0.10M	C		K1=3.50		1947SWa (71069)	507

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
Sr++	gl	alc/w	30°C	40%	M	M	K1=3.53	B2= 5.53	1995RRe (71200)	508
							K(SrL+A)=3.06			
							K(SrL+en)=5.40			
							K(SrL+pro)=2.51			
							K(SrL+B)=2.55			

Medium: 40% v/v EtOH/H2O, 0.10 M KNO3. K(SrL+ala)=2.40, K(SrL+gly)=0.75.
H2A is catechol, HB is hydroxyproline.

Sr++ gl alc/w 30°C 40% M M 1995RRe (71201) 509
K(Sr(phe)+L)=2.80
K(SrA+L)=1.60
Medium: 40% v/v EtOH/H2O, 0.10 M KNO3. H2A is salicylic acid.
****
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
---
Sr++ gl NaNO3 20°C 0.10M C H K1=3.70 1981ANb (71274) 510
DH1=-4.2 kJ mol-1 DS1=56.5 J K-1 mol-1

Sr++ gl KNO3 20°C 0.10M U K1=3.65 1963IFc (71275) 511
****
C10H12N4O6 H2L Xanthosine CAS 5968-90-1 (1176)
3,9-Dihydro-9-ribofuranosyl-1H-purine-2,6-dione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.10M C 1989KTa (71501) 512
K(Sr+H-1L) < 0.6
****
C10H12O2 HL CAS 1946-74-3 (202)
3-Isopropyltropolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ dis NaClO4 25°C 0.10M U K1=2.70 B2=4.40 1962DYa (71606) 513
****
C10H13N2O11P H3L Orotidylic acid CAS 68244-58-6 (6665)
Orotidine-5'-monophosphoric acid, uridine-5-carboxylic acid-5-monophosphoric acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.10M M K1=1.56 1991BSc (71794) 514
K(SrH-1+H)=8.78
****
C10H13N3O7 H3L (3912)
1,3-Dimethyluramil-N,N-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 20°C 0.10M U K1=6.82 B2=11.09 1963IFb (71808) 515
****
C10H13N4O8P H3L IMP CAS 131-99-7 (843)
Inosine-5'-monophosphoric acid;

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M M                         1994SMb (71876) 516
                                      K(Sr+HL)=1.32
                                      *K(SrHL)=-8.61
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       nmr non-aq 21°C 100%  U        K1=0.44         1973SFa (71952) 517
Medium: (CH3)2SO
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       nmr non-aq 21°C 100%  U                         1973SFa (72017) 518
                                      K(Sr+HL)=1.32
Medium: (CH3)2SO
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C      T K1=1.79         1991SMa (72191) 519
IUPAC evaluation
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M U        K1=1.20         1989MSf (72192) 520
--------------------------------------------------------------------------------
Sr++       gl  KNO3   40°C 0.10M U T H    K1=1.71         1967TMf (72193) 521
K1=1.85(0.4 C),1.79(12 C),1.74(25 C). At 25 C: DH(K1)=-4.2 J K-1 mol-1,DS=19
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C      T K1=1.76         1991SMa (72247) 522
IUPAC evaluation
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M U        K1=1.15         1989MSf (72248) 523
--------------------------------------------------------------------------------
Sr++       gl  KNO3   40°C 0.10M U T H    K1=1.68         1967TMf (72249) 524
K1=1.81(0.4 C),1.75(12 C),1.71(25 C). At 25 C: DH(K1)=-3.8 kJ mol-1, DS=19 J
--------------------------------------------------------------------------------
```

```
Sr++       gl  KNO3   25°C 0.10M U        K1=1.71        1962TMa (72250) 525
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M M        K1=1.26        2003BSa (72490) 526
                                         K(SrL+H)=4.7
                                         K(Sr+HL)=-0.3
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M M        K1=1.26        1996SSd (72491) 527
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C      T K1=1.84        1991SMa (72492) 528
IUPAC evaluation
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M U        K1=1.24        1989MSf (72493) 529
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C        K1=1.24        1988SMb (72494) 530
--------------------------------------------------------------------------------
Sr++       gl  KNO3   40°C 0.10M U T H    K1=1.74        1967TMf (72495) 531
K1=1.88(0.4 C),1.83(12 C),1.79(25 C). At 25 C: DH(K1)=-5.9 kJ mol-1, DS=18 J
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=1.79        1962TMa (72496) 532
--------------------------------------------------------------------------------
Sr++       ix  NaCl   25°C 0.15M U        K1=1.5         1960OLa (72497) 533
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.20M U        K1=1.32        1956SAa (72498) 534
Medium: 0.2 M n-Pr4NCl
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M M                         1994SMb (72604) 535
                                         K(Sr+HL)=1.36
                                         *K(SrHL)=-9.02
********************************************************************************
C10H15NO6             H3L                     (3915)
N-(1'-Carboxycyclopentyl)iminodiethanoic acid;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U        K1=6.08        1966IMa (72670) 536
********************************************************************************
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
```

```
-------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C      T                1991SMa (72704) 537
                                        K(Sr+HL)=1.79
IUPAC evaluation
-------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C                       1988MSa (72705) 538
                                        K(Sr+HL)=1.19
*******************************************************************************
C10H15N4O14P3         H5L    ITP              CAS 35908-31-7  (2148)
Inosine 5'-triphosphoric acid;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C                       2001SBc (72770) 539
                                        K(Sr+HL)=3.42
                                        K(SrHL+H)=5.35
                                        K(Sr+H2L)=2.3
For pyrimidine nucleoside 5'-triphosphoric acid, K1=3.34, K(Sr+HL)=2.15,
K(SrL+H)=5.3
*******************************************************************************
C10H15N5O10P2         H3L    ADP              CAS 20398-34-9  (2181)
Adenosine-5'-diphosphoric acid;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M M        K1=2.42        2003BSa (73013) 540
                                        K(SrL+H)=5.18
                                        K(Sr+HL)=1.2
-------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C    M   K1=2.54        2000KHa (73014) 541
                                        K(SrL+A)=3.17
                                        B(SrLA)=5.71
H2A=salicylhydroxamic acid.
-------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C      T K1=2.76        1991SMa (73015) 542
                                        K(Sr+HL)=1.60
IUPAC evaluation
-------------------------------------------------------------------------------
Sr++       gl  KNO3   40°C 0.10M U T H    K1=2.43        1967TMf (73016) 543
                                        K(Sr+HL)=1.48
K1=2.70(0.4 C),2.63(12 C),2.54(25 C); K=1.60(0.4 C),1.57(12 C),1.53(25 C).
At 25 C:DH(K1)=-11.3(?) kJ mol-1,DS=25(?) J K-1 mol-1; DH(Sr+HL)=-5.0, DS=12
-------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=2.54        1962TMa (73017) 544
-------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.20M U        K1=2.50        1956SAa (73018) 545
                                        K(Sr+HL)=1.34
*******************************************************************************
C10H16N2O8            H4L    EDDS             CAS 52759-67-8  (1100)
1,2-Diaminoethane-N,N'-di-1,4-butanedioic acid; (CH2.NH.CH(COOH)CH2.COOH)2
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=3.67 K(Sr+HL)=1.26	1989VZc (73182)	546
Sr++	gl	KNO3	25°C	0.10M	U		K1=2.82 K(Sr+HL)=1.83 K(Sr+SrL)=1.08	1971GBc (73183)	547
Sr++	gl	KNO3	20°C	0.10M	U		K1=3.37 K(Sr+HL)=1.42	1968MJa (73184)	548

By paper electrophoresis: K1=4.2

****

C10H16N2O8 H4L EDTA CAS 60-00-4 (120)

1,2-Diaminoethane-N,N,N',N'-tetraethanoic acid, Sequestric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	NaClO4	25°C	0.50M	U	H		1987VBc (74173)	549

DH(K1)=-44.98 kJ mol-1

Sr++	EMF	KCl	20°C	0.10M	C		K1=8.8	1981SFa (74174)	550

Method: Pt/H2 electrode.

Sr++	gl	KNO3	20°C	0.10M	C	I	R	K1=8.60	1978ANa (74175)	551

IUPAC evaluation

Sr++	gl	KNO3	20°C	0.10M	U			K1=8.63	1978NLb (74176)	552
Sr++	oth	oth/un	42°C	?	U	T	H	K1=7.62	1968LPa (74177)	553

Method: ultrasonic. K1=7.99(32 C). DH(K1)=68(?) kJ mol-1,DS=290(?) J K-1m-1

Sr++	nmr	oth/un	29°C	0.20M	U			K(Sr+SrL)=1.0 K(Sr3L=Sr2L+Sr)=0.4	1968LWa (74178)	554

Medium: EDTA, method: NMR

Sr++	oth	KNO3	20°C	0.10M	U			K1=8	1965JMb (74179)	555

Method: electrophoresis

Sr++	cal	KNO3	20°C	0.10M	U	H		1963ANf (74180)	556

DH(K1)=-17.1 kJ mol-1, DS=109 J K-1 mol-1

Sr++	gl	KCl	30°C	0.10M	U			K1=8.80	1963GHa (74181)	557
Sr++	ix	R4N.X	22°C	.165M	U			K1=8.42	1962TIa (74182)	558
Sr++	gl	KNO3	25°C	0.10M	U	T	H	T K1=8.53	1960BMc (74183)	559

K1=8.88(0.5 C), 8.64(13.4 C), 8.29(42.4 C); DH(K1)=-21 kJ mol-1, DS=88

```
-------------------------------------------------------------------------------
Sr++       ix  oth/un   ?  0.30M U        K1=8.28        1960MSb (74184) 560
                                         K(Sr+HL)=1.90
                                         K(Sr+H2L)=0.96
-------------------------------------------------------------------------------
Sr++       gl  oth/un 20°C 0.17M U   H                   1956CSb (74185) 561
DH(K1)=-17.2 kJ mol-1, DG=-48.24, DS=106 J K-1 mol-1
-------------------------------------------------------------------------------
Sr++       EMF oth/un 25°C  0.0  U   H                   1956MAa (74186) 562
Method: H electrode. DH(K1)=-17 kJ mol-1, DG=-46.82, DS=109 J K-1 mol-1
-------------------------------------------------------------------------------
Sr++       EMF NaClO4 25°C 0.10M U        K1=8.7         1956SRb (74187) 563
-------------------------------------------------------------------------------
Sr++       cal oth/un 25°C 0.05M U   H                   1954CHa (74188) 564
Medium: Sr(NO3)2. DH(K1)=-17.5 kJ mol-1, DS=108 J K-1 mol-1
-------------------------------------------------------------------------------
Sr++       EMF oth/un 20°C  0.0  U   H    K1=8.80        1954CMb (74189) 565
Method: H electrode. DH(K1)=-17.2 kJ mol-1, DS=109 J K-1 mol-1
-------------------------------------------------------------------------------
Sr++       EMF KCl    20°C 0.10M U      T K1=8.63        1947SAa (74190) 566
                                         K(Sr+HL)=2.30
Method: H electrode
*******************************************************************************
C10H16N2O8            H4L                    CAS 63501-20-2  (2583)
meso-2,3-Diaminobutane-N,N'-di(1,3-propanedioic acid)
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=4.50        1978SGc (74361) 567
                                         K(Sr+HL)=1.56
                                         K(Sr+SrL)=1.91
*******************************************************************************
C10H16N2O9            H4L                    CAS 616-90-0  (2615)
Bis-(2-aminoethylether)-N,N'di(1,3-propanedioic acid); ((HOOC)2CH.NH.CH2.CH2)2O
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=4.30        1979KBd (74377) 568
                                         K(Sr+HL)=2.33
*******************************************************************************
C10H16N2O11P2         H4L                    CAS 491-97-4  (7674)
Thymidine-5'-diphosphoric acid;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M M                       1999SSa (74390) 569
                                         K(Sr+HL)=2.40
*******************************************************************************
C10H16N5O13P3         H4L    ATP             CAS 56-65-5  (403)
Adenosine-5'-triphosphoric acid;
```

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--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C    M   K1=3.92        2000KHa (74821) 570
                                         K(SrL+A)=3.20
                                         B(SrLA)=7.12
H2A=salicylhydroxamic acid.
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C      T K1=3.82        1991SMa (74822) 571
                                         K(Sr+HL)=2.08
IUPAC evaluation
--------------------------------------------------------------------------------
Sr++       gl  NaClO4 25°C 0.10M U        K1=3.664       1986CCc (74823) 572
                                         B(SrHL)=8.99
                                         B(SrH2L2)=17.5
--------------------------------------------------------------------------------
Sr++       gl  KNO3   40°C 0.10M U T H    K1=3.45        1966TMb (74824) 573
                                         K(Sr+HL)=2.00
K1=3.80(0.4 C),3.66(12 C),3.54(25 C); K=2.17(0.4 C),2.11(12 C),2.05(25 C).
At 25 C:DH(K1)=-12.5 kJ mol-1, DS=25 J K-1 mol-1; DH(Sr+HL)=-6.7, DS=17
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=3.54        1962TMb (74825) 574
                                         K(Sr+HL)=2.05
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M U        K1=3.60        1961NAa (74826) 575
Medium: Et4NBr
--------------------------------------------------------------------------------
Sr++       ix  NaCl   25°C 0.15M U        K1=3.2         1960OLa (74827) 576
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.20M U        K1=3.03        1956SAa (74828) 577
                                         K(Sr+HL)=1.48
Medium: 0.2 M n-Pr4NCl
********************************************************************************
C10H16N5O14P3         H5L    GTP              CAS 86-01-1  (404)
Guanosine-5'-triphosphoric acid;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C                         2001SBc (74889) 578
                                         K(Sr+HL)=3.55
                                         K(SrHL+H)=5.6
                                         K(Sr+H2L)=2.65
********************************************************************************
C10H17NO4             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
--------------------------------------------------------------------------------
Sr++       gl  KNO3   20°C 0.10M U        K1=2.55        1963IFb (74977) 579
********************************************************************************
```

C10H17NO5 H2L CAS 6243-06-7 (3326)
N-(2-Hydroxycyclohexyl)iminodiethanoic acid; HO.C6H10.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	20°C	0.10M	U		K1=3.81	1963IFb (74991)	580

C10H17NO5 H2L (3917)
N-(Tetrahydropyran-2-ylmethyl)iminodiethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	20°C	0.10M	U		K1=3.97	1963IFa (75006)	581

C10H18N2O4S H2L (6638)
1-Thia-4,7-diazacyclononane-N,N'-diethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	C		K1=3.47	1993WLa (75219)	582

C10H18N2O5 H2L (5608)
1-Oxa-4,7-diazacyclononane-N,N'-diethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=3.95	1990CCa (75238)	583
Sr++	cal	NaClO4	25°C	0.10M	U	H	K1=3.3	1985EHa (75239)	584

DH(K1)=-3.9 kJ mol-1, DS=50.2 J K-1 mol-1

C10H18N2O7 H3L HEDTA CAS 150-39-0 (392)
N-(Hydroxyethyl)diaminoethane-N,N',N'-triethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaClO4	30°C	0.10M	U		K1=6.79	1981MMc (75501)	585
Sr++	cal	KNO3	25°C	0.10M	U	H		1965WHa (75502)	586

DH(K1)=-21.7 kJ mol-1, DS=58.5 J K-1 mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	EMF	KNO3	25°C	0.10M	U		K1=6.8	1960HRa (75503)	587
Sr++	gl	KCl	20°C	0.10M	U		K1=6.92	1959KRa (75504)	588
							K(Sr+HL)=1.38		

C10H18O8 H2L CAS 32775-08-9 (240)
1,12-Dicarboxy-2,5,8,11-tetraoxadodecane; (HOOC.CH2.O.CH2.CH2.O.CH2)2

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

---
Sr++ gl KNO3 25°C 0.10M U K1=2.29 1974MSa (75621) 589
****
C10H19NO4 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
---
Sr++ gl KCl 20°C 0.10M U K1=2.70 1955SAa (75642) 590
****
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
---
Sr++ gl KNO3 20°C 0.10M U K1=2.5 1970DKa (75836) 591
****
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
---
Sr++ sp oth/un 20°C 0.10M U K1=2.5 1972DKa (75848) 592
****
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
---
Sr++ con mixed 25°C 20% C K1=4.04 2003SIa (76130) 593
Medium: 20% w/w propylene carbonate/ethylene carbonate.

Sr++ con non-aq 25°C 100% C H K1=0.50 1999WBa (76131) 594
Medium: N,N-dimethylformamide. By calorimetry: DH(K1)=-6.2 kJ mol-1,
DH(K2)=-3.1 kJ mol-1.

Sr++ cal non-aq 25°C 100% C H K1=>5 1992BSc (76132) 595
Medium: propylene carbonate. DH(K1)=-41.6 kJ mol-1.

Sr++ cal alc/w 25°C 100% U H T K1=2.63 1980LIa (76133) 596
Medium: MeOH. DH=-19.6 kJ mol-1.

Sr++ cal oth/un 25°C 0.10M U H T K1=1.95 1976ITb (76134) 597
DH=-4.00 kJ mol-1.
****
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
---

```
Sr++       sp  non-aq 20°C 100%  U        K1=3.2         1992PSa (76339) 598
Medium: DMF, 0.01 M Me4NI
--------------------------------------------------------------------------------
Sr++       ISE alc/w  25°C 100%  U        K1=2.9         1988CFa (76340) 599
Medium: MeOH
--------------------------------------------------------------------------------
Sr++       cal alc/w  25°C 100%  U   H    K1=3.14   B2=5.65   1986BUa (76341) 600
Medium: MeOH. DH(K1)=10.3 kJ mol-1; DS=28 J K-1 mol-1; DH(K2)=-12.4; DS=6
********************************************************************************
C10H22O5                L    Tetraglyme       CAS 143-24-8  (121)
2,5,8,11,14-Pentaoxapentadecane; (CH3.O.CH2.CH2.O.CH2.CH2.)2O
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       cal non-aq 25°C 100%  U   H    K1=2.56        1993BDb (76473) 601
Medium: acetone. DH=-36.9 kJ mol-1; TDS=-22.4
--------------------------------------------------------------------------------
Sr++       con non-aq 25°C 100%  C   H    K1=3.69        1992BSc (76474) 602
Medium: propylene carbonate. By calorimetry, DH(K1)=-38.8 kJ mol-1,
DS(K1)=-59.7 J K-1 mol-1.
********************************************************************************
C10H23O4P              HL                     CAS 3138-42-9  (4760)
Di-n-pentylphosphoric acid; (CH3(CH2)4.O)2P(O)OH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       dis NaNO3    ?   1.0M U        B2=2.57        1970SKb (76538) 603
                                         B6=7.03
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  oth/un 25°C 0.10M U        K1=3.72        1959BYa (76762) 604
********************************************************************************
C10H26N4O6P2          H4L                     CAS 200951-96-8  (7643)
1,4,7,10-Tetraazacyclododecane-1,7-bis(methanephosphonic acid);
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KCl    25°C 0.10M C        K1=7.1         1998BRa (76809) 605
                                         *K(SrL)=-9.6
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  diox/w 30°C  75%  U        K1=5.95   B2=11.40  1953UFe (77161) 606
```

****
C11H10N2O L (7591)
4'-(Imidazol-1-yl)acetophenone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.50M M K1=-0.13 1998KSa (77670) 607
****
C11H11NO6 H3L CAS 1147-65-5 (425)
N-(2'-Carboxyphenyl)iminodiethanoic acid; HOOC.C6H4.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF KCl 20°C 0.10M C K1=3.91 1947SWa (77836) 608
Method: H electrode
****
C11H11NO6 H3L (3357)
N-(3-Carboxyphenyl)iminodiethanoic acid; HOOC.C6H4.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF KCl 20°C 0.10M C K1=1 1947SWa (77845) 609
Method: H electrode
****
C11H11NO6 H3L CAS 86363-45-6 (3358)
N-(4-Carboxyphenyl)iminodiethanoic acid; HOOC.C6H4.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF KCl 20°C 0.10M C K1=<1 1947SWa (77850) 610
Method: H electrode
****
C11H11O2F HL CAS 38440-21-0 (2906)
1-(4-Fluorophenyl)-1,3-pentanedione; F.C6H4.CO.CH2.CO.CH2.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl diox/w 20°C 75% M T K1=7.54 B2=12.54 1980GMd (77968) 611
****
C11H12O2 HL CAS 4023-79-4 (305)
1-(4-Methylphenyl)butane-1,3-dione; CH3.C6H4.CO.CH2.CO.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl diox/w 20°C 75% M T K1=7.43 B2=12.48 1980GMd (78378) 612
****
C11H13NO5 H2L CAS 4596-54-7 (3945)
N-(2'-Methoxyphenyl)iminodiethanoic acid; CH3O.C6H4.N(CH2.COOH)2

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

---
Sr++ gl KNO3 20°C 0.10M U K1=2.13 1963IFb (78602) 613
****
C11H13NO5 H3L HBIDA CAS 7372-13-6 (1603)
N-(2-Hydroxybenzyl)iminodiethanoic acid; HO.C6H4.CH2.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 20°C 0.10M U K1=4.99 1952SAb (78640) 614
K(Sr+HL)=2.25
****
C11H13N3O3 H2L (3363)
Biacetyl oxime salicyloylhydrazone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 20°C 50% U B2=2.91 1961VLc (78727) 615
Medium: 50% EtOH, 0.1 M KCl
****
C11H14N4O4 L Tubercidin CAS 69-33-0 (6412)
7-Deazaadenosine, Tubercidin;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.50M C K1=-0.13 2002KSb (78961) 616
****
C11H15N4O7P H2L CAS 16719-46-3 (6026)
Tubercidin-5'-monophosphoric acid, 7-Deazaadenosine-5-monophosphoric acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.10M C K1=1.24 1988SMb (79071) 617
K(Sr+HL)=0.2
****
C11H17NO3 H2L Isoprenaline CAS 586-06-1 (3950)
3,4-Dihydroxy-1-(1'-hydroxy-2'-(propylamino)ethyl)benzene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 25°C 0.10M U T H K1=3.70 B2= 5.20 1988CVa (79159) 618
Data for 0 and 37 C. DH(K1)=-15.6 kJ mol-1, DS(K1)=27.5 J K-1 mol-1;
DH(K2)=-9.3, DS(K2)=-2.4.
****
C11H17NO6 H3L (3951)
N-(2'-Carboxycyclohexyl)iminodiethanoic acid; HOOC.C6H10.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 20°C 0.10M U K1=5.56 1966IMa (79166) 619
****

C11H17NO8S H3L CAS 91649-51-3 (8438)
N,N,S-Tris(carboxymethyl)methionine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	C		K(Sr+HL)=2.81	1984RFd (79177)	620

****

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
Sr++	gl	KNO3	25°C	0.10M	U		K1=8.70	1980KBb (79336)	621
Sr++	gl	KNO3	20°C	0.10M	U		K1=9.52	1978NLb (79337)	622
Sr++	gl	KCl	25°C	0.10M	U		K1=9.54	1970AIa (79338)	623
DL isomer. For D-isomer, K1=9.50									
Sr++	gl	KCl	30°C	0.10M	U		K1=9.61	1963GHa (79339)	624

****

C11H18N2O8 H4L CAS 4408-81-5 (923)
1,3-Diaminopropane-N,N,N',N'-tetraethanoic acid; ((HOOC.CH2)2N.CH2.)2.CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	20°C	0.10M	U		K1=5.28	1964LAa (79470)	625
							K(Sr+HL)=2.58		
Sr++	gl	KCl	20°C	0.10M	U		K1=5.18	1948SAa (79471)	626
							K(Sr+HL)=2.39		

****

C11H18N2O9 H4L HDPTA CAS 3148-72-9 (431)
1,3-Diamino-2-hydroxypropane-N,N,N',N'-tetraethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=5.33	1966TKa (79573)	627
							K(SrL+H)=7.16		
Sr++	oth	KNO3	20°C	0.10M	U		K1=5.5	1965JMb (79574)	628
Method: electrophoresis									
Sr++	gl	KCl	20°C	0.10M	U		K1=5.84	1964DSc (79575)	629
By polarography: K1=6.12									
Sr++	gl	KCl	30°C	0.10M	U		K1=5.10	1963GHa (79576)	630
Sr++	gl	KCl	20°C	0.10M	U		K1=5.58	1959KRa (79577)	631

K(Sr+HL)=2.59

****

C11H18N2O9 H4L CAS 668-21-1 (2562)
2-Hydroxy-1,3-diaminopropane-N,N'-di(1,4-butanedioic) acid

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=2.80		1974KGa (79604)	632
							K(Sr+HL)=1.88			

****

C11H22O5 L 16-Crown-5 CAS 55477-28-8 (1592)
1,4,7,10,13-Pentaoxacyclohexadecane; cyclo(-(O.CH2.CH2)5.CH2.CH2-)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	con	none	25°C	0.0	C		K1=2.08		1991TKa (79874)	633

Self medium (ca. 0.008M).

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	dis	none	25°C	0.0	C	M			1989TKc (79875)	634
							K(SrL+2A=SrA2L(org))=2.61			

Method: extraction of metal picrate/L from H2O into benzene.
K(Sr+2HA(org)+L(org)=SrA2L(org)+2H)=0.00. HA is picric acid.

****

C12H5N7O12 L Dipicrylamine CAS 131-73-7 (1942)
Di(2,4,6-trinitrophenyl)amine; HN(C6H2(NO2)3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values			Reference	ExptNo
Sr++	dis	oth/un	25°C	0.03M	U		K1=2.0	B2=3.0		1969PKb (80085)	635

Medium: nitrobenzene, K1=2.1(tracer amounts Sr++)

****

C12H8N2 L Phenanthroline CAS 66-71-7 (144)
1,10-Phenanthroline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	cal	KCl	25°C	0.25M	U	H	K1=0.85		1997MKb (80517)	636

DH(K1)=-12.0 kJ mol-1; DS=-24 J K-1 mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	KCl	25°C	0.25M	U	T H	K1=0.82		1985CRa (80518)	637

K1=0.93(10 C);K1=0.71(40 C).
DH=-12.6 kJ mol-1, DS=-29 J mol-1 K-1

****

C12H11NO9 H5L (3975)
N-(2',5'-Dicarboxy-4'-hydroxyphenyl)iminodiethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U				1967UKa (80855)	638
							K(Sr+HL)=4.31			

****
C12H12NO6Cl H3L (4004)
(alpha-Carboxy-4'-chlorobenzyl)iminodiethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=4.35	1966IMb (80984)	639

****
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
Sr++	gl	NaNO3	25°C	0.50M	M		K1=-0.13	1998KSd (81104)	640

****
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
Sr++	gl	KNO3	25°C	0.10M	U		K1=3.24	1965AUa (81234)	641

****
C12H13NO6 H3L CAS 17335-88-5 (3981)
1-(Carboxybenzyl)iminodiethanoic acid; C6H5.CH(COOH).N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=4.44	1966IMb (81244)	642

****
C12H15NO4 H2L CAS 36369-62-7 (4928)
(Phenethylimino)diethanoic acid; C6H5.CH2.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=2.66	1971KTl (81465)	643
							K(Sr+HL)=1.42		

****
C12H15NO5 H3L CAS 56042-30-9 (4929)
N-(4-Hydroxyphenethylimino)diethanoic acid; HO.C6H4.CH2.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U			1971KTl (81510)	644
							K(Sr+HL)=2.76		
							K(Sr+H2L)=1.44		

****
C12H16N2O8 H4L (6460)
1,4-Diaminobut-2-yne-N,N,N',N'-tetraethanoic acid;
(HOOC.CH2)2N.CH2.CC.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	U		K1=2.81 K(Sr+HL)=2.46 K(Sr+SrL)=2.2	1979TSa (81604)	645

****

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
Sr++	gl	R4N.X	25°C	0.10M	C		K1=3.58 K(SrL+H)=5.16	2002DCb (81844)	646

Medium: 0.10 M Me4NNO3.

****

C12H18N2O8 H4L CAS 77441-50-0 (2930)
cis-1,4-Diaminocyclohexane-N,N'-di(propanedioic acid)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=2.62	1982SGb (81851)	647

****

C12H18N2O8 H4L (8011)
trans-1,4-Diaminobuten-2-N,N,N',N'-tetraethanoic acid

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=3.18 K(Sr+HL)=2.75 K(SrL+Sr)=2.5	1976TTb (81894)	648

****

C12H18N2O8 H4L CAS 82481-42-3 (2931)
trans-1,4-Diaminocyclohexane-N,N'-di(propanedioic acid)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=2.53	1982SGb (81900)	649

****

C12H19NO6 H3L (3991)
N-(2'-Carboxycycloheptyl)iminodiethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=6.04	1966IMa (81982)	650

****

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

```
--------------------------------------------------------------------------------
Sr++       gl  KNO3   20°C 0.10M U        K1=9.66        1969NDa (82034) 651
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  KNO3   20°C 0.10M U        K1=2.00        1973DSc (82098) 652
--------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=2.25        1972GBe (82099) 653
                                         K(Sr+HL)=1.35
                                         K(Sr+SrL)=2.72
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  KNO3   20°C 0.10M U        K1=7.95        1966MKb (82144) 654
--------------------------------------------------------------------------------
Sr++       gl  KCl    30°C 0.10M U        K1=8.68        1963GHa (82145) 655
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  KNO3   20°C 0.10M U        K1=4.42        1964LAa (82235) 656
                                         K(Sr+HL)=2.82
--------------------------------------------------------------------------------
Sr++       EMF KCl    20°C 0.10M C                       1948SAa (82236) 657
                                         K(Sr+HL)=2.80
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
--------------------------------------------------------------------------------
Sr++       gl  KCl    25°C 0.10M U                       1970AIa (82333) 658
                                         K1=10.19(DL)
                                         K1=10.16(D)
--------------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U        K1=10.10       1966IPa (82334) 659
--------------------------------------------------------------------------------
Sr++       oth KNO3   20°C 0.10M U        K1=11          1965JMb (82335) 660
Method: electrophoresis
--------------------------------------------------------------------------------
```

Sr++ gl KCl 20°C 0.10M U K1=10.20 1963MDa (82336) 661
****
C12H20N2O8 H4L CAS 63818-08-6 (2584)
meso-2,3-Diaminobutane-N,N'-di(1,4-butanedioic acid);
(CH(CH3).NH.CH(COOH)(CH2.COOH))2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M U K1=3.75 1978SGc (82353) 662
K(Sr+HL)=1.61
K(Sr+SrL)=1.24
****
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
---
Sr++ gl KCl 20°C 0.10M U K1=7.62 1966IPa (82419) 663

Sr++ oth KNO3 20°C 0.10M U K1=7 1965JMb (82420) 664
Method: electrophoresis

Sr++ gl KCl 20°C 0.10M U K1=7.65 1963MDa (82421) 665
K(Sr+HL)=1.81
****
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
---
Sr++ gl KCl 20°C 0.10M U K1=5.94 1964PCa (82474) 666
K(Sr+HL)=3.08
****
C12H20N2O8S2 H4L (3395)
2,2'-Dithiobisethyleneiminodiethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M U K1=3.71 1988PGb (82488) 667
K(SrL+H)=9.02
K(Sr+HL)=3.17
B(Sr2L)=6.73
****
C12H20N2O8Se H4L (4007)
((2,2'-Selenodiethylene)dinitrilo)tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl oth/un 25°C 0.10M U K1=4.94 1966KLc (82492) 668

K(Sr+HL)=2.85
****
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
---
Sr++ gl KNO3 25°C 0.10M U H 1965WHa (82563) 669
DH(K1)=-33.8 kJ mol-1, DS=50.2 J K-1 mol-1

Sr++ gl KCl 20°C 0.10M U K1=9.34 1964PCa (82564) 670
K(Sr+HL)=4.5

Sr++ EMF KNO3 25°C 0.10M U K1=8.6 1960HRa (82565) 671
****
C12H20N2O10 H4L CAS 10258-50-1 (3993)
(2,3-Dihydroxytetramethylenedinitrilo)tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 20°C 0.10M U K1=3.93 1967DSb (82592) 672
K(Sr+HL)=3.18
K(SrL+Sr)=2.85
****
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
---
Sr++ gl KNO3 20°C 0.10M C K1=9.52 1978NLa (82681) 673
****
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
---
Sr++ gl KNO3 20°C 0.10M U K1=4.62 1985LBc (82705) 674
****
C12H21N3O5 L CAS 106724-75-8 (8231)
3,6,9,12,15-Pentaoxa-18,19,20-triazabicyclo[15.2.1]eicosa-1(19),17-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal none 25°C 0.0 C H K1=2.26 1986BNb (82714) 675
DH(K1)=4.44 kJ mol-1.
****
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
Sr++	gl	NaNO3	25°C	0.10M	C	T H	K1=6.83 K(SrL+H)=6.1	1987BGc (82741)	676

DH(K1)=-8.8 kJ mol-1. DH(SrL+H)=-17.15; DS=58.6 J K-1 mol-1

****

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
Sr++	gl	R4N.X	25°C	0.10M	C		K1=7.38	1992ADa (82796)	677

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
Sr++	gl	R4N.X	25°C	0.10M	C		K1=7.19	1992ADa (82810)	678

Medium: 0.1 M Me4NNO3

****

C12H23NO5 L (6793)

10-Methoxycarbonylethyl-1,4,7-trioxa-10-azacyclododecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	alc/w	25°C	100%	U	H		1990KMb (82948)	679

Medium: MeOH. DH=-11.9 kJ mol-1

****

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
Sr++	gl	R4N.X	25°C	0.10M	C		K1=6.30 B(SrHL)=13.15	1992ADa (82977)	680

Medium: 0.1 M Me4NNO3

****

C12H24O4S2 L CAS 296-39-9 (4938)

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	non-aq	25°C	100%	C	H	K1=2.19	1992BSc (83143)	681

Medium: propylene carbonate. DH(K1)=-17.0 kJ mol-1, DS(K1)=-15 J K-1 mol-1.

****

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
Sr++	EMF	alc/w	25°C	100%	C		K1=4.75	2004ZTa (83624) 682

Medium: 100% methanol, 0.05 M Bu4NClO4. Method: Ag electrode, competition with Ag+ ion.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	con	mixed	25°C	20%	C		K1=3.89	2003SIa (83625) 683

Medium: 20% w/w propylene carbonate/ethylene carbonate.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	con	alc/w	25°C	90%	C	TIH T	K1=5.26	1999SSc (83626) 684

Medium: 90% w/w MeOH/H2O. Data for 5-40C. DH(K1)=-34.02 kJ mol-1, DS(K1) =-13.40 J K-1 mol-1. Data for 0-90% w/w MeOH/H2O. For 0%, K1=2.68.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	cal	non-aq	25°C	100%	C	H	K1=2.51	1999WBa (83627) 685

Medium: N,N-dimethylformamide. DH(K1)=-9.6 kJ mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	cal	R4N.X	25°C	0.10M	C	H T	K1=2.81	1996BCh (83628) 686

Medium: 0.10 M Et4NClO4. DH(K1)=-11.9 kJ mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	cal	non-aq	25°C	100%	U	H T	K1=2.92	1995OKa (83629) 687

Medium:DMF, 0.1 M NEt4ClO4. DH=-22.6 kJ mol-1, DS=-19.9 J K-1 mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	cal	R4N.X	25°C	0.10M	U	H T	K1=2.80	1995OKa (83630) 688

Medium: 0.1 M NEt4Cl. DH=-15.9 kJ mol-1, DS=0.5 J K-1 mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	cal	none	50°C	0.00	C	T H	K1=2.51	1995WIa (83631) 689

Method: isothermal flow calorimetry. Measurements at 1.52 MPa. Data for 25-125 C. DH(K1)=-15.9 kJ mol-1, DS(K1)=-1 J K-1 mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	cal	none	45°C	0.0	U	T H T	K1=2.56	1994VBa (83632) 690

DH(K1)=-13.10 kJ mol-1, DS=7.8 J K-1 mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	cal	non-aq	25°C	100%	U	H T	K1=5.31	1993BDb (83633) 691

Medium: acetone. DH=-52.0 kJ mol-1; TDS=-21.8 Calorimetric titration

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	dis	non-aq	25°C	100%	U			1993INa (83634) 692

B(SrPL)=10.1

K is the equilibrium constant for extraction of the metal picrate (P) into CH2Cl2. For extraction from D2O, B=9.69.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	cal	non-aq	25°C	100%	C	H	K1=>5	1992BSc (83635) 693

Medium: propylene carbonate. DH(K1)=-59.1 kJ mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	cal	oth/un	25°C	0.05M	M		K1=6.84	1992BUb (83636) 694

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	con	non-aq	25°C	100%	C		K1=3.76	1992STa (83637) 695

Medium: propylene carbonate.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	nmr	non-aq	30°C	100%	U	I	K1=>6	1991ASc (83638) 696

Medium: nitromethane. In MeCN, K1=4.1; in DMF, K1=2.67.

Sr++ ix none 25°C 0.0 U K1=2.8 1991BMb (83639) 697

Sr++ vlt non-aq 25°C 100% C K1=4.10 1991SSb (83640) 698
Method: competitive complexation with Tl+; use of Tl(Hg)/Tl couple.
Medium: acetonitrile, 0.05 M Et4NClO4.

Sr++ sol oth/un 25°C 0.08M U K1=2.75 1989KMa (83641) 699
In 10 M H2O in EtOH: K1=4.76

Sr++ sp alc/w 25°C 100% U I K1=5.64 1989KSc (83642) 700
In MeOH. In DMF K1=4.23; in DMSO K1=3.63

Sr++ cal alc/w 25°C 100% U H K1=5.39 1986BUa (83643) 701
Medium: MeOH. DH(K1)=-37.2 kJ mol-1; DS=-7 J K-1 mol-1

Sr++ nmr non-aq 25°C 100% U K1=3.00 1985BPa (83644) 702
Medium: DMF

Sr++ vlt R4N.X 25°C 0.10M U K1=2.40 1985SKd (83645) 703
Method: polarography. Medium: 0.10 M Me4NI.

Sr++ cal alc/w 25°C 100% U H T K1=>5.5 1980LIa (83646) 704
Medium: MeOH. DH=-36.0 kJ mol-1.

Sr++ cal alc/w 25°C 70% U H K1=5.0 1976ITa (83647) 705
Medium: 70% w/w MeOH/H2O. DH(K1)=-31.3 kJ mol-1.

Sr++ cal oth/un 25°C 0.10M U H T K1=2.72 1976ITb (83648) 706
DH=-15.1 kJ mol-1.
****
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
---
Sr++ sp alc/w 25°C 100% C K1=5.93 2002NFa (83896) 707
Medium: 100% MeOH. Method: electrospray ionization mass spectrometry.

Sr++ sp non-aq 25°C 100% U T H K1=2.58 1994GSb (83897) 708
At 35 C: K1=2.55; 45 C: K1=2.45; 55 C: K1=2.33. DH(K1)=-16 kJ mol-1, DS=-4
Medium: DMSO

Sr++ sp non-aq 20°C 100% U K1=5.25 1992PSa (83898) 709
Medium: DMF, 0.01 M Me4NI

Sr++ sp alc/w 25°C 100% U I K1=4.75 1989KSc (83899) 710
In MeOH. In DMF K1=4.00; in DMSO K1=3.24

```
Sr++       cal alc/w  25°C 100%  U   H    K1=5.99        1986BUa (83900) 711
Medium: MeOH. DH(K1)=-9.0 kJ mol-1; DS=25 J K-1 mol-1
--------------------------------------------------------------------------------
Sr++       ISE alc/w  25°C 100%  U   H    K1=5.7         1983CFb (83901) 712
Medium: MeOH, 0.05 M Et4NClO4
--------------------------------------------------------------------------------
Sr++       gl  alc/w  25°C  95%  C        K1=5.60        1981ANa (83902) 713
Medium: 95% MeOH, 0.1 M Me4NCl
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C        K1=2.8         1975ANa (83903) 714
Medium: Me4NCl
********************************************************************************
C12H26O4S              HL    SDS              CAS 151-21-3  (2522)
Dodecyl sulfate; CH3(CH2)11.OSO3H
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       sol oth/un 21°C    ?  U        B2=5.2         1979KBb (83982) 715
                                        B(Sr2L4)=7.2
                                        B(Sr3L6)=8.0
********************************************************************************
C12H26O6                L    Pentaglyme       CAS 1191-87-3  (2498)
2,5,8,11,14,17-Hexaoxaoctadecane; (CH3.O.CH2.CH2.O.CH2.CH2.O.CH2.)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       cal non-aq 25°C 100%  U   H    K1=2.49        1993BDb (84021) 716
Medium: acetone. DH=-42.6 kJ mol-1; TDS=-28.5
--------------------------------------------------------------------------------
Sr++       con non-aq 25°C 100%  C   H    K1=5.21        1992BSc (84022) 717
Medium: propylene carbonate. By calorimetry, DH(K1)=-49.1 kJ mol-1,
DS(K1)=-65.4 J K-1 mol-1.
--------------------------------------------------------------------------------
Sr++       con oth/un 25°C 0.05M M        K1=2.53        1992BUb (84023) 718
********************************************************************************
C12H28N2O9P2          H4L                      (7242)
1,4,10-Trioxa-7,13-diazacyclopentadecane-7,13-diyldimethylenediphosphonic acid;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M U        K1=8.05        1996BJa (84165) 719
                                        K(Sr+HL)=5.13
                                        K(Sr+H2L)=2.11
Medium: 0.1 M Me4NCl
********************************************************************************
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
--------------------------------------------------------------------------------
```

```
Sr++       gl  NaNO3  25°C 0.10M U        K1=<2          1990WHa (84237) 720
-------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C        K1=<2          1989HBa (84238) 721
*******************************************************************************
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
-------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.20M C        K1=3.2         1991KKa (84354) 722
-------------------------------------------------------------------------------
Sr++       gl  NaClO4 25°C 0.20M U        K1=3.2         1980KKb (84355) 723
*******************************************************************************
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
-------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M M        K1=10.95       1990DSa (84420) 724
                                         B(SrH4L)=45.34
                                         B(Sr2L)=18.35
                                         B(Sr2HL)= 27.35
                                         B(Sr2H2L)=34.68
Medium: Me4NNO3
-------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C  1.0M U        K1=9.8         1984KMb (84421) 725
                                         K(Sr+HL)=7.2
                                         K(Sr+H2L)=3.8
*******************************************************************************
C13H10N2O4            H2L                      CAS 62437-12-1  (4013)
4-(Phenylamino)pyridine-2,6-dicarboxylic acid; C6H5.NH.C5H2N(COOH)2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Sr++       gl  NaClO4 22°C 0.10M U        K1=4.18        1964BBa (84877) 726
*******************************************************************************
C13H15NO6             H3L                       (4999)
2-Benzylnitrilotriethanoic acid;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Sr++       oth oth/un 25°C 0.10M U        K1=4.64        1962HKa (85744) 727
*******************************************************************************
C13H15NO6             H3L                       (4026)
N-(1'-Carboxy-1'-phenylethyl)iminodiethanoic acid;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U        K1=5.38        1966IMa (85752) 728
*******************************************************************************
```

C13H15NO6 H3L (4025)
N-(alpha-Carboxy-4'-methylbenzyl)iminodiethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=4.48	1966IMb (85758)	729

****
C13H15NO7 H3L CAS 50444-50-3 (4027)
N-(alpha-Carboxy-4'-methoxybenzyl)iminodiethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=4.49	1966IMb (85767)	730

****
C13H17NO5 H2L (5001)
N-(4-Methoxyphenethylimino)diethanoic acid; CH3O.C6H4.CH2CH2N(CH2COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=2.68	1971KTl (85981)	731
							K(Sr+HL)=1.46		

****
C13H20N2O8 H4L CAS 22991-70-4 (3413)
trans-1,2-Cyclopentane-iminodiethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ix	R4N.X	20°C	0.10M	U	I	K1=10.12	1962STc (86114)	732
K1=9.71(I=0.165 M)									
Sr++	gl	oth/un	20°C	0.10M	U		K1=9.45	1960KGa (86115)	733
Sr++	gl	KCl	20°C	0.10M	U		K1=9.06	1959KRa (86116)	734
							K(Sr+HL)=4.16		

****
C13H22N2O8 H4L CAS 1798-14-7 (921)
(Pentamethylenedinitrilo)tetraethanoic acid; ((HOOC.CH2)2N.CH2.CH2)2CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	EMF	KCl	20°C	0.10M	C			1948SAa (86206)	735
							K(Sr+HL)=2.72		
Method: H electrode									

****
C13H22N2O8 H4L CAS 1198-14-7 (5004)
1,2-Diaminopentane-N,N,N',N'-tetraethanoic acid; (HOOCCH2)2NCH2CH(C3H7)N(CH2COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	20°C	0.10M	U		K1=9.68	1969NDa (86236)	736

****
C13H22N2O8 H4L (7164)
2,4-Diaminopentane-N,N,N',N'-tetraethanoic acid;
(HOOCCH2)2NCH(CH3)CH2CH(CH3)N(CH2COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 20°C 0.10M U K1=4.40 1981NSc (86264) 737
K(SrL+H)=2.21
****
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
---
Sr++ gl KNO3 20°C 0.10M U K1=9.74 1969NDa (86291) 738
****
C13H23N3O8 H4L (3414)
N-Methyl-2,2'-iminobis(ethyliminodiethanoic acid);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF KCl 20°C 0.10M C K1=8.35 1957SSa (86397) 739
K(Sr+HL)=3.20
Method: H electrode
****
C13H24N2O6 H2L (5610)
1,11-Dioxa-4,8-diazacyclotridecane-N,N'-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.10M C K1=3.74 1998CCd (86415) 740
*K(SrL)=-11.36
Medium: 0.10 M Me4NNO3.

Sr++ cal NaClO4 25°C 0.10M U H K1=2.6 1985EHa (86416) 741
DH(K1)=-1.0 kJ mol-1, DS=46.8 J K-1 mol-1
****
C13H26O5 L (6410)
15,15-Dimethyl-1,4,7,10,13-pentaoxacyclohexadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ con none 25°C 0.0 C K1=1.1 2001KMb (86488) 742
****
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
---

Sr++ con oth/un 25°C dil C K1=1.83 1999TMa (86505) 743
Self medium (Sr(NO3)2).
****
C13H34N4O12P4 H8L (6686)
1,4,7,11-Tetraazacyclotridecane-N,N',N",N"'-tetramethylenephosphonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.10M M 1990DSa (86586) 744
B(SrLH)=19.39
B(SrH2L)=28.72
B(SrH3L)=37.33
B(Sr2L)=12.95
Medium: Me4NNO3. Sr2HL also observed
****
C14H12N2O2 H2L CAS 1149-16-2 (5052)
Glyoxalbis(2-hydroxyanil), 2,2'-(Ethanedylidenedinitrilo)diphenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp oth/un ? ? U K1=5.90 1973TSd (87188) 745
pH= 12.5-12.8
****
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
---
Sr++ gl KNO3 25°C 0.10M U K1=4.60 1973UWb (87672) 746
****
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
---
Sr++ gl KCl 25°C 0.10M U K1=5.53 1990MDa (87750) 747
B(SrHL)=9.04
****
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
---
Sr++ gl NaClO4 25°C 1.00M C H K1=5.47 1992NSa (87968) 748
By calorimetry: DH(K1)=2.7 kJ mol-1, DS=115 J K-1 mol-1

Sr++ gl KCl 30°C 0.10M U K1=6.2 1963GHa (87969) 749
K(Sr+HL)=3.0
K(Sr+H2L)=1.3
****

C14H16N2O8 H4L (6108)
1,3-Phenylenediamine-N,N'-disuccinic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaCl	25°C	0.50M	C		K1=1.450 B(SrHL)=6.559 B(SrH2L)=10.844	1989FRa (87993)	750

****
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
Sr++	gl	NaCl	25°C	0.50M	C		K1=0.93	1984RFe (88014)	751

****
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
Sr++	con	mixed	25°C	20%	C		K1=3.71	2003SIa (88376)	752
Medium: 20% w/w propylene carbonate/ethylene carbonate.									
Sr++	cal	non-aq	25°C	100%	C	H		1999WBa (88377)	753
Medium: N,N-dimethylformamide. DH(K1)=-1.3 kJ mol-1.									
Sr++	sp	alc/w	25°C	100%	U	I	K1=2.42	1989KSc (88378)	754
In MeOH. In DMF K1=2.15; in DMSO K1 <2									

****
C14H22N2O8 H4L cis-1,2-CDTA CAS 92761-75-6 (2846)
cis-1,2-Diaminocyclohexane-N,N,N',N'-tetraethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=7.33 K(Sr+HL)=1.95	1959KRa (88435)	755

****
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
Sr++	cal	KNO3	25°C	0.10M	U	T H		1965WHa (88779)	756
DH(K1)=-15.0 kJ mol-1, DS=142 J K-1 mol-1									
Sr++	cal	KNO3	20°C	0.10M	U	T H		1963ANb (88780)	757
DH(K1)=-3.1 kJ mol-1, DS=191 J K-1 mol-1									
Sr++	cal	KNO3	20°C	0.10M	U	H	K1=10.54	1963ANf (88781)	758

DH(K1)=-3.1 kJ mol-1, DS=192 J K-1 mol-1

Sr++ gl KNO3 25°C 0.10M U T H K1=8.92 1960BMb (88782) 759
K1=9.38(0.5 C), 8.66(42.4 C). DH(K1)=-28.0 kJ mol-1, DS=75 J K-1 mol-1

Sr++ EMF KNO3 25°C 0.10M U K1=10.0 1960HRa (88783) 760

Sr++ gl KCl 20°C 0.10M U K1=10.69 1959KRb (88784) 761

****

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
Sr++	gl	diox/w	24°C	50%	U		K1=5.3	1979ACa (88994)	762

****

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
Sr++	cal	KNO3	27°C	0.10M	U	H		1968CLd (89390)	763
DH(K1)=-28.0 kJ mol-1, DS=87.8 J K-1 mol-1									
Sr++	cal	KNO3	25°C	0.10M	U	H		1965WHa (89391)	764
DH(K1)=-31.4 kJ mol-1, DS=79.4 J K-1 mol-1									
Sr++	ix	R4N.X	22°C	.165M	U		K1=9.57	1962TIa (89392)	765
Sr++	gl	KNO3	25°C	0.10M	C		K1=9.7 K(SrL+H)=5.4	1960WAa (89393)	766
Sr++	gl	oth/un	20°C	0.10M	U		K1=9.68	1958DRa (89394)	767

****

C14H24N2O7 H3L (3440)
N-(2-Hydroxycyclohexyl)ethylenediamine-N,N',N'-triethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	oth/un	25°C	0.10M	U		K1=7.24 K(Sr+HL)=1.74	1960SAc (89496)	768

****

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
Sr++	gl	KNO3	20°C	0.10M	U		K1=6.95	1969NDc (89519)	769

****

C14H24N2O8 H4L HMDTA CAS 1633-00-7 (920)

1,6-Diaminohexane-N,N,N',N'-tetraethanoic acid; ((HOOC.CH2)2N.CH2.CH2.CH2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=3.57 K(Sr+HL)=2.40 B(Sr2L)=1.91	1969GKb (89606)	770

****

C14H24N2O8 H4L CAS 1633-00-7 (5076)

4-Methyl-1,2-diaminopentane-N,N,N',N'-tetraethanoic acid; (HOOCCH2)2NCH2CH(N(CH2COOH)2CH2CH(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	20°C	0.10M	U		K1=9.84	1969NDa (89642)	771

****

C14H24N2O9 H4L CAS 87720-52-3 (1593)

2,2'-Oxybis(propyliminodiethanoic acid)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=4.15 K(Sr+HL)=3.06	1961ISa (89712)	772
Sr++	gl	KCl	20°C	0.10M	U		K1=7.17 K(Sr+HL)=3.57	1961KGa (89713)	773

****

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
Sr++	gl	KCl	20°C	0.10M	U		K1=4.15 K(Sr+HL)=3.06	1961ISa (89737)	774

****

C14H24N2O10 EGTA CAS 67-42-5 (349)

Ethyleneglycol-O,O'-bis(2-aminoethyl ether)-N,N,N',N'-tetraethanoic acid; H4L

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	C		K1=8.5 K(Sr+HL)=4.37	1985SMg (89937)	775
Sr++	gl	KNO3	25°C	0.10M	U		K1=8.13 K(SrL+H)=6.8 K(SrL+2H)=5.4	1982JGa (89938)	776
Sr++	gl	NaCl	25°C	0.70M	U		K1=8.10	1974JAb (89939)	777

Medium: seawater

```
Sr++       cal KCl    25°C 0.10M U   H                  1965BBe (89940) 778
DH(K1)=-23.8 kJ mol-1, DS=80.7 J K-1 mol-1
--------------------------------------------------------------------------
Sr++       cal KNO3   25°C 0.10M U   H                  1965WHa (89941) 779
DH(K1)=-26.8 kJ mol-1, DS=62.7 J K-1 mol-1
--------------------------------------------------------------------------
Sr++       ISE KCl    20°C 0.10M C        K1=8.50        1964PCa (89942) 780
                                         K(Sr+HL)=4.37
Method: H electrode
--------------------------------------------------------------------------
Sr++       gl  oth/un 25°C 0.10M U        K1=8.1         1957SRa (89943) 781
**************************************************************************
C14H24N2O10           H4L                        (2655)
N,N'-Bis(2-hydroxyethane)-N,N'-ethanediaminedibutanedioic acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C  0.1M U        K1=4.21        1985MGb (89978) 782
**************************************************************************
C14H24O10              HL    18-6A2           CAS 76871-57-3  (5407)
1,2-Bis-carboxy-18-crown-6;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  alc/w  25°C  90%  U        K1=9.3         1984FWa (90062) 783
                                         B(SrHL)=13.4
Medium: 90% v/v MeOH/H2O, 0.05 M R4NX
**************************************************************************
C14H25N3O7            H3L                        (5397)
1-Oxa-4,7,10-triazacyclododecane-4,7,10-triethanoic acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M U        K1=11.37       1988ADa (90090) 784
                                         K(Sr+HL)=4.48
**************************************************************************
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
--------------------------------------------------------------------------
Sr++       cal R4N.X  25°C 0.10M U   H                  1989DSa (90206) 785
DH(SrL)=-24.3 kJ mol-1; DS=71.
--------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C        K1=8.023       1987DDb (90207) 786
                                         B(Sr2L)=9.99
--------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M M        K1=7.91        1986COb (90208) 787
**************************************************************************
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
Sr++	gl	R4N.X	25°C	0.10M	U		K1=4.2 B(SrHL)=12.5 B(Sr(OH)L)=7.8	1990AFa (90225)	788

****

C14H26N4O6 H3L DOTRA (6701)
1,4,7,10-Tetraazacyclododecane-1,4,7-triethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	R4N.X	25°C	0.10M	M		K1=8.97	1996CHc (90255)	789

Medium: 0.1 M Me4NCl.

****

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
Sr++	cal	non-aq	25°C	100%	C	H		1999WBa (90442)	790

Medium: N,N-dimethylformamide. DH(K1)=-1.0 kJ mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	R4N.X	25°C	0.05M	C	H	K1=3.1	1996BCh (90443)	791

Medium: 0.05 M Et4NClO4. By calorimetry: K1=2.6, DH(K1)=-10.4 kJ mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sp	non-aq	25°C	100%	U	T H	K1=2.78	1994GSb (90444)	792

At 35 C: K1=2.69; 45 C: K1=2.61; 55 C: K1=2.56. DH(K1)=-14 kJ mol-1, DS=7
Medium: DMSO

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sp	non-aq	20°C	100%	U		K1=2.7	1992PSa (90445)	793

Medium: DMF, 0.01 M Me4NI

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	alc/w	25°C	100%	U	H	K1=2.50	1986BUa (90446)	794

Medium: MeOH. DH(K1)=-0.2 kJ mol-1; DS=47

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	R4N.X	25°C	0.05M	C	I	K1=<2.0	1975LSc (90447)	795

In 95% MeOH, 0.05 M Me4NBr: K1=2.90

****

C14H28O7 L 21-Crown-7 CAS 33089-36-0 (2264)
1,4,7,10,13,16,19-Heptaoxacycloheneicosane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	alc/w	25°C	100%	U	H	K1=1.77	1980LIa (90540)	796

Medium: MeOH. DH=-29.7 kJ mol-1.

****

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
---
Sr++ gl alc/w 25°C 95% C K1=6.94 2004KVa (90588) 797
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.

Sr++ gl oth/un 25°C ? C K1=3.89 1991DMa (90589) 798

Sr++ ISE alc/w 25°C 100% U H K1=6.5 1983CFb (90590) 799
Medium: MeOH, 0.05 M Et4NClO4

Sr++ gl alc/w 25°C 93% U K1=5.65 1978WVa (90591) 800
Medium: 93% MeOH/H2O
****
C14H30N2O5 L CAS 23978-10-1 (2955)
1,10-Diaza-4,7,13,16,19-pentaoxacycloheneicosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ ISE alc/w 25°C 100% U K1=3.5 1988CFa (90614) 801
Medium: MeOH

Sr++ cal alc/w 25°C 100% U H K1=3.58 1986BUa (90615) 802
Medium: MeOH. DH(K1)=7.3 kJ mol-1; DS=93 J K-1 mol-1
****
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
---
Sr++ gl R4N.X 25°C 0.10M C K1=4.15 1995LLa (90635) 803
Medium: Et4NClO4
****
C14H30N4O2 L (6364)
1,7,10,16-Tetraaza-4,13-dioxabicyclo[14.2.2]eicosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.10M U K1=<2 1990WHa (90660) 804
****
C14H30O7 L CAS 1072-40-8 (2499)
2,5,8,11,14,17,20-Heptaoxaheneicosane; CH3.O.(CH2.CH2.O)6.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal non-aq 25°C 100% U H K1=2.52 1993BDb (90711) 805
Medium: acetone. DH=-40.9 kJ mol-1; TDS=-26.6

Sr++ con non-aq 25°C 100% C H K1=4.68 1992BSc (90712) 806
Medium: propylene carbonate. By calorimetry, DH(K1)=-56.4 kJ mol-1,

DS(K1)=-100 J K-1 mol-1.
****
C14H32N2O10P2 H4L CAS 81963-60-2 (7240)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7,16-diyldimethylenediphosphonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	R4N.X	25°C	0.10M	U		K1=7.05		1996BJa (90773)	807
							K(Sr+HL)=4.62			
							K(Sr+H2L)=2.34			

Medium: 0.1 M Me4NCl
****
C14H34N4O6P2 H4L CAS 200952-02-9 (7644)
1,4,7,10-Tetraazacyclododecane-1,7-bis(methanephosphonic acid monoethyl ester);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	C		K1=3.38		1998BRa (90848)	808

****
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
Sr++	gl	R4N.X	25°C	0.10M	M				1990DSa (90878)	809
							B(SrHL)=18.61			
							B(SrH2L)=29.64			
							B(SrH3L)=37.86			
							B(SrH4L)=45.10			

Medium: Me4NNO3
****
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
Sr++	gl	diox/w	20°C	17%	C		K1=6.41	B2=11.97	1976JWa (91563)	810
Sr++	gl	diox/w	30°C	75%	U		K1=6.40	B2=12.10	1953UFe (91564)	811

****
C15H14N2O5 H3L (5113)
2-Phenyl-4,5,6,7-tetrahydroindazol-3-one-5,5-dicarboxylic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	diox/w	25°C	50%	U				1964STa (91726)	812
							K(Sr+HL)=4.15			
							K(Sr+H2L)=2.18			

****
C15H19N3O8 H4L CAS 53793-56-9 (8631)

N,N'-[2,6-Pyridinediylbis(methylene)]bis[N-(carboxymethyl)]glycine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	U		K1=9.2	1984VOb (92132)	813

For the 4-methoxy derivative: K1=7.4; for the 4-dimethylamino derivative, K1=7.1.

****

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
Sr++	gl	KNO3	25°C	0.10M	U		K1=8.56 K(Sr+HL)=6.32 K(Sr+H2L)=1.7 B(Sr2L)=1.4	1968MMb (92320)	814

****

C15H24O6 HL CAS 57722-03-9 (2353)
1-Hydroxy-2-(1,4,7,10,13-pentaoxatridecyl)benzene; HO.C6H4.O(CH2CH2O)4CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sp	alc/w	25°C	100%	U		K1=6.26	1981EMb (92348)	815

Medium: MeOH

****

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
Sr++	gl	NaCl	25°C	0.15M	U		K1=5.81	1995BGa (92496)	816

****

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
Sr++	gl	mixed	25°C	75%	U		K1=5.20	1972MCb (92664)	817

Medium: 75% acetone, 0.1 M KNO3

****

C16H11N2OBr HL CAS 7150-24-5 (5172)
1-(4-Bromophenylazo)-2-hydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	mixed	25°C	75%	U		K1=6.34	1972MCb (92702)	818

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
Sr++	gl	mixed	25°C	75%	U		K1=5.72	1972MCb (92717)	819

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
Sr++	gl	mixed	25°C	75%	U		K1=6.30	1972MCb (92732)	820

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
Sr++	gl	mixed	25°C	75%	U		K1=6.24	1972MCb (92747)	821

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
Sr++	gl	diox/w	30°C	75%	U		K1=6.50	1957SFb (92764)	822
							K(Sr+H2L=SrL+2H)=-17.0		

****

C16H11N3O3 HL CAS 6410-09-9 (5151)
1-(2-Nitrophenylazo)-2-hydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	mixed	25°C	75%	U		K1=2.75	1972MCb (92801)	823

Medium: 75% acetone, 0.1 M KNO3

****

C16H11N3O3 HL CAS 6410-46-1 (5152)
1-(4-Nitrophenylazo)-2-hydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	mixed	25°C	75%	U		K1=3.54	1972MCb (92816)	824

Medium: 75% acetone, 0.1 M KNO3

****

C16H11N3O4 H2L CAS 14847-54-2 (3461)
1-(2-Hydroxy-5-nitrophenylazo)-2-hydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	diox/w	30°C	75%	U			1957SFb (92846)	825
							K(Sr+H2L=SrL+2H)=-16.7		

****

C16H12N2O HL CAS 842-07-9 (5156)
1-Phenylazo-2-hydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	mixed	25°C	75%	U		K1=6.76	1972MCb (92922)	826

Medium: 75% acetone, 0.1 M KNO3

****

C16H12N2O2 H2L CAS 9486-98-2 (3462)
1-(2-Hydroxyphenylazo)-2-hydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	mixed	25°C	75%	U			1972MCb (92957)	827
							K(Sr+HL)=6.60		

Medium: 75% acetone, 0.1 M KNO3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	diox/w	30°C	75%	U		K1=6.81	1957SFb (92958)	828
							K(Sr+H2L=SrL+2H)=-17.9		

****

C16H12N2O2 H2L CAS 14934-27-1 (5157)
1-(4-Hydroxyphenylazo)-2-hydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	mixed	25°C	75%	U			1972MCb (92974)	829
							K(Sr+HL)=6.42		

Medium: 75% acetone, 0.1 M KNO3

****

C16H12N2O4S H2L CAS 13964-82-4 (3475)
1-(4-Sulfophenylazo)-2-hydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	mixed	25°C	75%	U		K1=3.18	1972MCb (93005)	830

Medium: 75% acetone, 0.1 M KNO3

****

C16H12N2O8S2 H4L Chromotrope 2R CAS 4197-07-3 (2604)
2-(Benzeneazo)-chromotropic acid, Acid Red 29

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U			1971KMb (93067)	831
							K(Sr+HL)=2.08		

```
Sr++       gl  KNO3   25°C 0.10M U                        1968NMb (93068) 832
                                        K(Sr+HL)=1.78
**************************************************************************
C16H12N2O9S2          H5L                      CAS 26197-92-2  (4094)
2-(2'-Hydroxyphenylazo)chromotropic acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U                        1968NMb (93076) 833
                                        K(Sr+HL)=3.49
**************************************************************************
C16H12N2O11S3         H5L                        (4095)
2-(2'-Sulphophenylazo)chromotropic acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U                        1968NMb (93083) 834
                                        K(Sr+HL)=2.58
**************************************************************************
C16H13N2O10AsS2       H5L    Thorin I         CAS 3688-92-4  (2609)
1-((2-Arsonophenyl)azo)-2-hydroxy-3,6-naphthalyldisulfonic acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=2.87         1971KTc (93209) 835
--------------------------------------------------------------------------
Sr++       gl  oth/un 30°C    ?  U        K1=4.3          1964PCa (93210) 836
**************************************************************************
C16H13N2O10AsS2       H5L                        (5204)
2-(2-Arsonophenylazo)-1-hydroxynaphthalene-3,6-disulfonic acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=2.0          1971KTc (93226) 837
**************************************************************************
C16H13N2O10PS2        H5L                        (5205)
1-(2-Phosphonophenylazo)-2-hydroxynaphthalene-3,6-disulfonic acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=3.06         1971KMa (93230) 838
                                        K(Sr+HL)=2.97
                                        K(SrL+H)=11.01
**************************************************************************
C16H13N2O11AsS2       H6L    Arsenazo I       CAS 520-10-5  (277)
2-(2'-Arsonophenylazo)chromotropic acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U        K1=4.39         1971KTc (93266) 839
```

```
------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M U                      1968NMb (93267) 840
                                        K(Sr+HL)=4.41
******************************************************************************
C16H14N4O2            H2L                        (3467)
5-Hydroxy-4-(2-hydroxyphenylazo)-3-methyl-1-phenylpyrazole;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Sr++       gl  diox/w 30°C  75%  U        K1=7.05        1952SNa (93476) 841
******************************************************************************
C16H14N4O4S            HL                         (5184)
5-Methyl-1-phenyl-4-(2-sulfophenylazo)-3-pyrazolone;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Sr++       gl  diox/w 30°C  75%  U        K1=4.07        1969SSc (93507) 842
******************************************************************************
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
------------------------------------------------------------------------------
Sr++       gl  KNO3   20°C 0.10M U        K1=9.32        1989SLa (94050) 843
------------------------------------------------------------------------------
Sr++       gl  KNO3   20°C 0.10M U        K1=9.32        1969NDb (94051) 844
------------------------------------------------------------------------------
Sr++       gl  KCl    25°C 0.10M U        K1=8.98        1967OTb (94052) 845
******************************************************************************
C16H20N2O10           H6L                        (704)
1,2-Dihydroxy-3,6-di-(methyleneiminodiethanoic acid)-benzene;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M C         K1=4.82        1988ZHa (94067) 846
                                       K(Sr+H2L)=3.50
                                       K(Sr+HL)=4.64
                                       K(SrHL+H)=10.08
                                       K(SrL+H)=11.69
B(Sr2L)=9.44
******************************************************************************
C16H24N2O8            H4L                      CAS 38557-30-1  (1256)
Ethylene-bis(N,N'-(2,6-dicarboxy)piperidine); ((HOOC)2.C5H8N.CH2.)2
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M U        K1=4.94        1979PBa (94321) 847
******************************************************************************
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
---
Sr++ oth alc/w 35°C 3.0% C K1=1.96 1999MTd (94461) 848
Method: capillary zone electrophoresis. Medium: 3% v/v EtOH/H20, 0.005 M acetate buffer, pH 5.5.

Sr++ cal non-aq 25°C 100% C H K1=2.64 1999WBa (94462) 849
Medium: N,N-dimethylformamide. DH(K1)=-15.7 kJ mol-1.

Sr++ cal non-aq 25°C 100% U H K1=4.39 1993BDb (94463) 850
Medium: acetone. DH=-46.1 kJ mol-1

Sr++ con none 25°C 0.0 U K1=2.41 1989TKa (94464) 851

Sr++ cal non-aq 25°C 100% C H K1=5.12 1986ICa (94465) 852
Medium: MeOH. DH(K1)=-19.6 kJ mol-1, DS(K1)=32.2 J K-1 mol-1.

Sr++ sp alc/w 25°C 100% U K1=4.92 1981EMb (94466) 853
Medium: MeOH
****
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
---
Sr++ gl R4N.X 25°C 0.10M M K1=4.9 1991FGb (94502) 854
B(SrHL)=9.1
Medium: 0.10 M Et4NNO3.
****
C16H25NO4 L (7444)
1-Aza-4,7,10,13-tetraoxa-1-phenyl-cyclopentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq RT 100% C K1=3.89 2001AVa (94520) 855
Method: spectrophotometric titration. Medium: acetonitrile.
****
C16H26N2O4 L (5849)
2,3-Benzo-1,4,10,13-tetraoxa-7,16-diazacyclooctadeca-2-ene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ ISE alc/w 25°C 100% U K1=4.9 1988CFa (94556) 856
Medium: MeOH
****
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

---
Sr++ gl R4N.X 25°C 0.10M C K1=4.62 2002DCb (94577) 857
Medium: 0.10 M Me4NNO3.
****
C16H26N2O12 H4L (6659)
1,4,10,13-Tetraoxa-7,16-diaza-2,3,11,12-tetracarboxycyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.10M U K1=6.7 1990AFa (94592) 858
B(SrHL)=15.2
****
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
---
Sr++ gl R4N.X 25°C 0.10M U K1=10.4 1990AFa (94606) 859
B(SrHL)=17.3
****
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
---
Sr++ gl KNO3 20°C 0.10M U K1=4.12 1969NDc (94721) 860
****
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
---
Sr++ gl KNO3 20°C 0.10M U K1=7.13 1969NDc (94747) 861
****
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
---
Sr++ gl KNO3 20°C 0.10M U K1=9.80 1979MBd (94773) 862
****
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
---
Sr++ gl R4N.X 25°C 0.10M M K1=14.83 1996CHc (94927) 863
Medium: 0.1 M Me4NCl.

```
Sr++       gl  KCl    25°C 0.10M C        K1=14.38       1991CMb (94928) 864
                                          K(SrL+H)=4.52
--------------------------------------------------------------------------------
Sr++       cal R4N.X  25°C 0.10M C   H                   1984DFa (94929) 865
Medium: 0.10 M Me4NNO3. DH(K1)=-43.9 kJ mol-1, DS(K1)=146 J K-1 mol-1.
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C        K1=15.22       1982DSa (94930) 866
                                          K(Sr+HL)=7.8
                                          K(Sr+H2L)=2.28
--------------------------------------------------------------------------------
Sr++       EMF KCl    20°C 0.10M C        K1=12.8        1981SFa (94931) 867
Method: Pt/H2 electrode.
--------------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U        K1=12.80       1976SFb (94932) 868
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C        K1=8.09        2000CDd (94965) 869
                                          *K(SrL)=-10.4
Medium: 0.10 M (Me4N)NO3.
********************************************************************************
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
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C        K1=8.66        2000BTb (95055) 870
                                          K(SrL+H)=4.92
Medium: 0.10 M (CH3)4NCl
--------------------------------------------------------------------------------
Sr++       cal R4N.X  25°C 0.10M C   H                   1989DSa (95056) 871
DH(SrL)=-37.6 kJ mol-1; DS=38.
--------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M U        K1=8.57        1988HSb (95057) 872
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M U        K1=8.29        1983CRb (95058) 873
********************************************************************************
C16H30N4O8            H4L                      (3473)
N,N'-Dimethyl-2,2'-ethylenedi-iminobis(ethylenediethanoic acid);
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KCl    20°C 0.10M U        K1=6.71        1964PCa (95084) 874
                                          K(Sr+HL)=2.80
********************************************************************************
C16H32N2O4              L    Cryptand 1,2,1H  CAS 119017-36-6  (6587)
4,7,14,20-Tetraoxa-1,10-diazabicyclo[8.7.5]docosane;
```

```
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Sr++       gl  alc/w  25°C  95%  M        K1=3.57        1990LNa (95120) 875
Medium: 95% MeOH, 0.05 M Bu4NBr. For the 9,13-dihydroxy- analogue: K1=4.61
*******************************************************************************
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);
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Sr++       ISE non-aq 25°C 100%  C   H    K1=7.39        1999WBa (95288) 876
Medium: N,N-dimethylformamide. Method: competitive titration against
Ag+, using Ag+ ISE. By calorimetry: DH(K1)=-51.8 kJ mol-1.
-------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.05M C   H    K1=7.2         1996BCh (95289) 877
Medium: 0.05 M Et4NClO4. By calorimetry: DH(K1)=-28.5 kJ mol-1.
-------------------------------------------------------------------------------
Sr++       EMF non-aq 25°C 100%  C   H    K1=5.97        1995CDb (95290) 878
Medium: DMSO, 0.1 M Et4NClO4. DH=-46.0 kJ mol-1, DS=-40.0 J K-1 mol-1.
-------------------------------------------------------------------------------
Sr++       sp  non-aq 25°C 100%  U T H    K1=5.19        1994GSb (95291) 879
At 35 C: K1=5.10; 45 C: K1=4.98; 55 C: K1=4.89. DH(K1)=-19 kJ mol-1, DS=36
Medium: DMSO
-------------------------------------------------------------------------------
Sr++       sp  non-aq 20°C 100%  U        K1=7.3         1992PSa (95292) 880
Medium: DMF, 0.01 M Me4NI
-------------------------------------------------------------------------------
Sr++       cal alc/w  25°C 100%  U   H                   1986BUa (95293) 881
                                          B(Sr2L2) >5
Medium: MeOH. DH=-43.0 kJ mol-1; DS=66
-------------------------------------------------------------------------------
Sr++       sp  non-aq 25°C 100%  U        K1=5.41        1983PSc (95294) 882
Medium: DMSO
-------------------------------------------------------------------------------
Sr++       gl  oth/un 25°C 0.05M U   H    K1=7.3         1977LPb (95295) 883
DH=-26.0 kJ mol-1 by calorimetry.
-------------------------------------------------------------------------------
Sr++       cal R4N.X  25°C 0.06M C   H                   1976KLc (95296) 884
Medium: 0.057 M Me4NBr. Method: flow microcalorimetry.
DH(K1)=-25.5 kJ mol-1, DS(K1)=55 J K-1 mol-1.
-------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.05M C  I     K1=7.35        1975LSc (95297) 885
In 95% MeOH: K1=10.65
*******************************************************************************
C16H32N4O4              L                        (6794)
4,10-Bis(N,N-dimethylethanamido)-1,7-dioxa-4,10-diazacyclododecane;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
```

Sr++ cal alc/w 25°C 100% U H K1=>5 1990KMb (95323) 886
Medium: MeOH. DH=-35.8 kJ mol-1
****
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
---
Sr++ gl NaNO3 25°C 0.10M C K1=6.67 1995MHa (95379) 887
****
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
---
Sr++ gl R4N.X 25°C 0.10M C K1=3.62 1995LLa (95421) 888
Medium: Et4NClO4
****
C16H34N2O5 L DHPK-21 CAS 106288-71-5 (8327)
N,N'-Bis(2-hydroxypropyl)-1,4,10-trioxa-7,13-diazacylopentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.10M C K1=3.46 1986HBe (95429) 889
****
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
---
Sr++ gl R4N.X 25°C 0.10M C K1=4.29 1995LLa (95457) 890
Medium: Et4NClO4

Sr++ gl oth/un 25°C 0.50M U K1=4.0 1992MHa (95458) 891
****
C16H36N4O4 L (6703)
1,4,7,10-Tetrakis(2-hydroxyethyl)-1,4,7,10-tetraazacyclododecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.10M C K1=6.47 2000DFb (95581) 892
Medium: 0.10 M Et4NClO4.
****
C17H12N2O10S2 H5L CAS 3440-76-4 (4119)
2-(2'-Carboxyphenylazo)chromotropic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M U 1971KMb (95721) 893
K(Sr+HL)=2.82

Sr++ gl KNO3 25°C 0.10M U 1968NMb (95722) 894

K(Sr+HL)=2.81

****

C17H14N2O HL CAS 2046-17-5 (5214)

1-(2-Methylphenylazo)-2-hydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	mixed	25°C	75%	U		K1=6.63	1972MCb (95799)	895

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
Sr++	gl	mixed	25°C	75%	U		K1=7.35	1972MCb (95814)	896

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
Sr++	gl	mixed	25°C	75%	U		K1=7.37	1972MCb (95833)	897

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
Sr++	gl	mixed	25°C	75%	U		K1=7.16	1972MCb (95848)	898

Medium: 75% acetone, 0.1 M KNO3

****

C17H14N2O9S2 H4L (5228)

2-(2-Methoxyphenylazo)chromotropic acid;

Sr++ gl KNO3 25°C 0.10M U 1971KMb (95945) 899

K(Sr+HL)=2.40

****

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
Sr++	EMF	KCl	20°C	0.10M	C		K1=8.0	1981SFa (96461)	900

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
Sr++	gl	KCl	25°C	0.10M	C		K1=14.38 K(SrL+H)=4.52	1991CMb (96658)	901
Sr++	cal	KNO3	25°C	0.10M	C	H		1984DFa (96659)	902

DH(K1)=-14.6 kJ mol-1, DS(K1)=142 J K-1 mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	C		K1=9.995 K(Sr+HL)=3.688	1982DSa (96660)	903
Sr++	EMF	KCl	20°C	0.10M	C		K1=8.5	1981SFa (96661)	904

Method: Pt/H2 electrode.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=11.70	1976SFb (96662)	905

****

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
Sr++	gl	R4N.X	25°C	0.10M	C		K1=4.39	2000CDd (96684)	906

Medium: 0.10 M (Me4N)NO3.

****

C17H32N4O6 H3L (7253)
1,4,7,10-Tetraazacyclododecane-1-propyl-4,7,10-triethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	R4N.X	25°C	0.10M	M		K1=8.79	1996CHc (96695)	907

Medium: 0.1 M Me4NCl.

****

C17H32N4O7 H3L CAS 120041-08-9 (6702)
10-Hydroxypropyl-1,4,7,10-tetraazacyclododecane-1,4,7-triethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	R4N.X	25°C	0.10M	M		K1=12.27	1996CHc (96720)	908

Medium: 0.1 M Me4NCl.

****

C17H32N4O8 H3L (7255)
1,4,7,10-Tetraazacyclododecane-1-(2,3-dihydroxypropyl)-4,7,10-triethanoic acid;

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

Sr++ gl R4N.X 25°C 0.10M M K1=12.08 1996CHc (96726) 909
Medium: 0.1 M Me4NCl
****
C17H34N4O4S L CAS 503465-04-1 (9247)
4,7,13,16-Tetraoxa-1,10,21,23-tetraazabicyclo[8.8.7]pentacosane-22-thione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% C K1=2.29 2004KVa (96762) 910
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.
****
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
---
Sr++ gl NaNO3 25°C 0.10M U K1=3.92 1988HSb (96787) 911
****
C18H12N2O11S2 H5L (5251)
2-(2'-Oxalophenylazo)chromotropic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M U 1971KMb (96869) 912
K(Sr+HL)=2.88
****
C18H14N2O9S2 H4L (5252)
2-(2'-Methyl-benzoylazo)chromotropic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M U 1971KMb (96935) 913
K(Sr+HL)=2.35
****
C18H14N2O10S2 H5L (5253)
2-(2-Phenylethanoic acidazo)chromotropic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M U 1971KMb (96940) 914
K(Sr+HL)=2.75
****
C18H14N2O11S2 H5L (4132)
2-(2'-(Carboxyhydroxymethyl)phenylazo)chromotropic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M U 1971KMb (96946) 915
K(Sr+HL)=3.40
****

C18H14N2O11S2 H5L (4133)
2-(2'-(Carboxymethoxy)phenylazo)chromotropic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M U 1971KMb (96953) 916
K(Sr+HL)=3.65
****
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
---
Sr++ gl diox/w 30°C 75% U K1=4.8 1962SCc (97213) 917
****
C18H18O8 H2L (5631)
1,4-bis(2-Carboxymethoxyphenyl)-1,4-dioxabutane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 90% M K1=5.27 1998KLa (97305) 918
Medium: 90% v/v MeOH/H2O, 0.1 M Me4NCl
****
C18H22N2O8 H4L (5244)
(trans-1,2,3,4-Tetrahydronaphthalene-2,3-dinitrilo)tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M U K1=9.56 1970YKa (97527) 919
****
C18H22O4 H2L B(CH2AcAcH)2 (2252)
1,3-Di(hexa-3,5-dione)-benzene; C6H4((CH2)2.CO.CH2.CO.CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl diox/w 24°C 50% U K1=4.7 1979ACa (97562) 920
****
C18H26N6 L (6628)
3,6,14,17,23,24-Hexaazatricyclo[17.3.1.1]tetracosa-1(23),8,10,12(24),19,21-hexaene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 25°C 0.10M M K1=2.8 1996MBb (97724) 921
****
C18H26O4S8 e L CAS 334475-11-5 (5980)
3,6-Bis(methylsulfanyl)-2,7-(4,7,10,13-tetraoxa-1,16-dithiahexadecane-1,16-diyl)tet
rathiafulvalen

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

```
Sr++       nmr mixed  25°C  50%  C        K1=3.4         2001DMa (97729) 922
Medium: 50% v/v CDCl3/CD3CN. Method: 1H NMR
********************************************************************************
C18H27N2O3F             L                      CAS 173417-90-8  (6571)
23-Fluoro-4,7,20-trioxa-1,10-diazatricyclo[8.7.5.1,12,16]tricosa-12,14,16(23)triene
;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       EMF non-aq 25°C 100%  C   H    K1=2.30        1999BHa (97750) 923
Medium: MeOH, 0.05 M Et4NClO4. By calorimetry DH(K1)=-1.6 kJ mol-1.
Method: by competition with Ag+, using Ag/Ag+ electrode.
********************************************************************************
C18H27N3O12           H6L                       (3503)
1,3,5-Triaminocyclohexane-N,N,N',N',N'',N''-hexaethanoic acid;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  KCl    30°C 0.10M U        K1=4.5         1963GHa (97753) 924
                                         K(SrL+Sr)=2.1
                                         K(Sr+HL)=3.5
                                         K(Sr+H2L)=2.3
********************************************************************************
C18H28O5                L                      CAS 15196-73-3  (2359)
2,3-(4'-Dimethylethylbenzo)-1,4,7,10,13-pentaoxacyclopentadeca-2-ene;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       EMF non-aq 25°C 100%  U        K1=5.55   B2=10.6   1982MRb (97813) 925
Medium: anhydrous propylene carbonate, 0.1M Et4NClO4
********************************************************************************
C18H28O6              H2L    O(EAcAcE)2O      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
--------------------------------------------------------------------------------
Sr++       gl  diox/w 24°C  50%  U        K1=5.6         1979ACa (97832) 926
********************************************************************************
C18H28O10             H2L    (OEOAcAcOE)2     CAS 62950-36-1  (2254)
1,4,10,13,16,22-Hexaoxacyclotetracosa-6,8,18,20-tetraone;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  diox/w 24°C  50%  U        K1=6.7         1979ACa (97870) 927
********************************************************************************
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
--------------------------------------------------------------------------------
```

Sr++ gl R4N.X 25°C 0.10M C K1=4.56 2002DCb (97917) 928
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
---
Sr++ gl R4N.X 25°C 0.10M C K1=11.34 2000BTb (97930) 929
K(SrL+H)=4.56
Medium: 0.10 M (CH3)4NCl

Sr++ gl NaCl 25°C 0.15M U K1=9.79 1995BGa (97931) 930
****
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
---
Sr++ gl KCl 30°C 0.10M U K1=9.26 1963GHa (98091) 931
K(Sr+H2L)=1.6
K(Sr+HL)=6.71
K(SrL+Sr)=3.44
****
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
---
Sr++ gl KCl 25°C 0.10M C K1=5.91 1991CMb (98225) 932

Sr++ gl NaNO3 25°C 0.20M C K1=5.32 1991KKa (98226) 933

Sr++ cal KNO3 25°C 0.10M C H 1984DFa (98227) 934
DH(K1)=8.8 kJ mol-1, DS(K1)=138 J K-1 mol-1.

Sr++ gl KNO3 25°C 0.10M C K1=5.728 1982DSa (98228) 935
K(Sr+HL)=3.987

Sr++ EMF KCl 20°C 0.10M C K1=6.2 1981SFa (98229) 936
Method: Pt/H2 electrode.

Sr++ gl KCl 20°C 0.10M U K1=6.15 1976SFb (98230) 937
****
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
---
Sr++ EMF KCl 20°C 0.10M C K1=9.7 1981SFa (98248) 938

Method: Pt/H2 electrode. For the 3-ethyl- derivative, K1=6.6;
for the 3,3-dimethyl- derivative, K1=3.7

****

C18H32N4O9 H4L CAS 189282-31-3 (8974)
4,7,10,13-Tetrakis-(carboxymethyl)-1-oxa-4,7,10,13-tetraazacyclopentadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	R4N.X	25°C	0.10M	C		K1=9.53 K(SrL+Sr)=2.8	1999CDb (98261)	939

Medium: 0.10 M NMe4NO3.

****

C18H32O8 L CAS 473704-12-0 (8708)
4-[(2-Propenyloxy)methyl]-2,5,8,11,14,17,20-heptaoxabicyclo[7.6.6]heneicosane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	none	25°C	0.0	C	H	K1=3.20	2001ZKd (98275)	940

Self-medium, ca. 0.005 M. DH(K1)=-5.4 kJ mol-1, DS(K1)=43.3 J K-1 mol-1.

****

C18H33NO9 HL 4NH18-C6A CAS 83572-66-1 (5404)
2-Carboxy-3-N-butylformamide-1,4,7,10,13,16-hexaoxacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	alc/w	25°C	90%	U		K1=5.5 B2=11.4	1984FWa (98289)	941

Medium: 90% v/v MeOH/H2O, 0.05 M R4NX

****

C18H34N2O8 H2L CAS 68670-15-5 (5851)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7,16-di-(3-propanoic acid);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.15M	U		K1=6.81	1995BGa (98345)	942

****

C18H34N4O8 H3L (7256)
1,4,7,10-Tetraazacyclododecane-1-(2-hydroxy-3-methoxypropyl)-4,7,10-triethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	R4N.X	25°C	0.10M	M		K1=11.92	1996CHc (98369)	943

Medium: 0.1 M Me4NCl

****

C18H34N4O9 H3L DO3A-B (7301)
10-[2,3-Dihydroxy-(1-hydroxymethyl)-propyl]-1,4,7,10-tetraazacyclododecane-1,4,7-triethanoic ac.;

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

```
Sr++       gl  KCl    25°C 0.10M C        K1=12.4        1996TKa (98384) 944
**************************************************************************
C18H36N2O5              L    Cryptand 1,2,2H    (6605)
1,10-Diaza-4,7,14,20,23-Pentaoxabicyclo[8.8.7]pentacosane;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  alc/w  25°C  95%  M        K1=5.81        1990LNa (98409) 945
Medium: 95% MeOH, 0.05 M Bu4NBr. For the 12,16-dihydroxy- analogue: K1=5.95
**************************************************************************
C18H36N2O5              L    Cryptand 2,2,1H  CAS 119017-37-7  (6588)
5,8,15,18,23-Pentaoxa-1,12-diazabicyclo[10.8.5]pentacosane;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       gl  alc/w  25°C  95%  M        K1=4.33        1990LNa (98417) 946
Medium: 95% MeOH, 0.05 M Bu4NBr. For the 9,16-dihydroxy- analogue: K1=5.72
**************************************************************************
C18H36N2O6              L    Cryptand 3,2,1     (7303)
1,10-Diaza-4,7,13,16,19,24-hexaoxabicyclo[8,11,5]hexacosane;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       cal KCl    25°C 0.10M U  IH    K1=5.43        1997ZIa (98424) 947
DH(K1)=-9.2 kJ mol-1, DS=-73.1 J K-1 mol-1. In 95% v/v MeOH/H2O: K1=8.25;
DH(K1)=-34.8, DS=41.3
**************************************************************************
C18H36N2O6              L    Cryptand 2,2,2   CAS 23978-09-8  (514)
1,10-Diaza-4,7,13,16,21,24-hexaoxabicyclo[8.8.8]hexacosane;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Sr++       sp  non-aq 25°C 100%  C  I     K1=4.69        1999ASb (98733) 948
Medium: DMSO, 0.02 M Et4NClO4. Also data for 7-32% w/w AN/DMSO.
Competitive titration using murexide indicator. Also kinetic data.
--------------------------------------------------------------------------
Sr++       ISE non-aq 25°C 100%  C   H    K1=6.99        1999WBa (98734) 949
Medium: N,N-dimethylformamide. Method: competitive titration against
Ag+, using Ag+ ISE. By calorimetry: DH(K1)=-44.6 kJ mol-1.
--------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.05M C   H    K1=7.3         1996BCh (98735) 950
Medium: 0.05 M Et4NClO4. By calorimetry: DH(K1)=-43.4 kJ mol-1.
--------------------------------------------------------------------------
Sr++       EMF non-aq 25°C 100%  C   H    K1=4.98        1995CDb (98736) 951
Medium: DMSO, 0.1 M Et4NClO4. DH=-31.7 kJ mol-1, DS=-11.0 J K-1 mol-1.
--------------------------------------------------------------------------
Sr++       sp  non-aq 25°C 100%  U T H    K1=4.44        1994GSb (98737) 952
At 35 C: K1=4.37; 45 C: K1=4.30; 55 C: K1=4.24. DH(K1)=-13 kJ mol-1, DS=42
Medium: DMSO
--------------------------------------------------------------------------
```

Sr++ EMF non-aq 25°C 100% C H K1=12.89 1992BSc (98738) 953
Medium: propylene carbonate. Method: disproportionate titration with Ag.
By calorimetry, DH(K1)=-76.2 kJ mol-1, DS(K1)=-10 J K-1 mol-1.

Sr++ sp non-aq 20°C 100% U K1=6.5 1992PSa (98739) 954
Medium: DMF, 0.01 M Me4NI

Sr++ gl R4N.X 25°C 0.10M C I K1=7.96 1989GAc (98740) 955
Medium: (CH3)4NBr. Also K1(I=0.05 M)=8.11, K1(I=0.01 M)=8.25

Sr++ cal alc/w 25°C 100% U H 1986BUa (98741) 956
B(Sr2L2) >5
Medium: MeOH. DH=-42.5 kJ mol-1; DS=81

Sr++ con none 25°C 0.0 C K1=4.30 1986KHe (98742) 957
Method: conductance stopped-flow. Medium pH 11.3.

Sr++ sp non-aq 25°C 100% U K1=4.77 1983PSc (98743) 958
Medium: DMSO

Sr++ sp alc/w -15°C 95% U K1=12.90 1982CFc (98744) 959
Medium: 95% MeOH/H2O, 0.05 M LiClO4

Sr++ cal R4N.X 25°C 0.06M C IH 1976KLc (98745) 960
Medium: 0.057 M Me4NBr. Method: flow microcalorimetry. DH(K1)=-43.1 kJ
mol-1, DS(K1)=8 J K-1 mol-1. In 95% (v/v) MeOH/H2O, DH(K1)=-59.0, DS=22.

Sr++ gl R4N.X 25°C 0.10M C H K1=8.26 1975ANa (98746) 961
Medium: Me4NCl. DH(K1)=-44.3 kJ mol-1, DS=9.2

Sr++ gl R4N.X 25°C 0.05M C I K1=8.0 1975LSc (98747) 962
In 95% MeOH: K1=11.5
****
C18H36N4O4 L (6795)
4,10-Bis(N,N-dimethylpropanamido)-1,7-dioxa-4,10-diazacyclododecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal alc/w 25°C 100% U H K1=4.36 1990KMb (98785) 963
Medium: MeOH. DH=-19.9 kJ mol-1
****
C18H38N2O6 L CAS 72911-99-0 (649)
4,13-Bis(2-methoxyethyl)-1,7,10,16-tetraoxo-4,13-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.10M C K1=3.64 1995LLa (98845) 964
Medium: Et4NClO4

Sr++ gl NaNO3 25°C 0.10M C K1=3.23 1991DHa (98846) 965

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

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.10M U K1=4.05 1986HBc (98854) 966
****
C18H40N2O10P2 H2L (7241)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7,16-diyldimethylenediphosphonic acid bis(Et-ester);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.10M U K1=5.33 1996BJa (98899) 967
Medium: 0.1 M Me4NCl
****
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
---
Sr++ gl diox/w 30°C 75% U K1=4.9 1965SMh (99252) 968
****
C19H34N4O8 H4L cPenta CAS 98515-24-3 (8328)
1,4,8,12-Tetrazacyclopentadecane-N,N',N'',N'''-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.10M C K1=2.19 1988DDa (99465) 969
Medium: 0.10 M Me4NNO3.
****
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
---
Sr++ gl R4N.X 25°C 0.10M U K1=7.4 1978LMa (99497) 970
****
C20H14N2O HL (5291)
1-(1-Naphthylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl mixed 25°C 75% U K1=5.85 1972MCb (99603) 971
Medium: 75% acetone, 0.1 M KNO3
****
C20H14N2O HL CAS 2653-64-7 (5292)
1-(2-Naphthylazo)-2-hydroxynaphthalene;

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  mixed  25°C  75%  U        K1=6.42        1972MCb (99618) 972
Medium: 75% acetone, 0.1 M KNO3
*************************************************************************
C20H14N2O11S3         H2L    Hydroxynaphthol  CAS 63451-35-4  (2835)
Hydroxynaphthol blue, 1-(2-Hydroxy-4-sulfo-1-naphthylazo)-2-naphthol-3,
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       sp  none   25°C  0.0  U                        1978BRb (99736) 973
                                      K1eff=2.05
Keff at pH 10
*************************************************************************
C20H22O9              H2L                        (5624)
1,7-bis(2-Carboxymethoxyphenyl)-1,4,7-trioxaheptane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  alc/w  25°C  90%  M        K1=4.45        1998KLa (99940) 974
Medium: 90% v/v MeOH/H2O, 0.1 M Me4NCl
*************************************************************************
C20H24O6                L    DiBz-18-Crown-6  CAS 14187-32-7  (604)
2,3:11,12-Dibenzo-1,4,7,10,13,16-hexaoxacyclooctadeca-2,11-diene
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       EMF alc/w  25°C 100%  C        K1=3.96        2004ZTa (100239) 975
Medium: 100% methanol, 0.05 M Bu4NClO4. Method: Ag electrode,
competition with Ag+ ion.
-------------------------------------------------------------------------
Sr++       con mixed  25°C  20%  C        K1=3.71        2003SIa (100240) 976
Medium: 20% w/w propylene carbonate/ethylene carbonate.
-------------------------------------------------------------------------
Sr++       oth alc/w  35°C 3.0%  C        K1=1.22        1999MTd (100241) 977
Method: capillary zone electrophoresis. Medium: 3% v/v EtOH/H20, 0.005 M
acetate buffer, pH 5.5.
-------------------------------------------------------------------------
Sr++       vlt non-aq 25°C 100%  C        K1=3.80        1991SSb (100242) 978
Method: competitive complexation with Tl+; use of Tl(Hg)/Tl couple.
Medium: acetonitrile, 0.05 M Et4NClO4.
-------------------------------------------------------------------------
Sr++       sp  alc/w  -15°C  95%  U         K1=3.56       1982CFc (100243) 979
Medium: 95% MeOH/H2O, 0.05 M LiClO4
-------------------------------------------------------------------------
Sr++       sol none   25°C  0.0  U  I     K1=1.0         1975SNa (100244) 980
*************************************************************************
C20H31N2O4F             L                      CAS 173417-87-3  (6461)
26-Fluoro-4,7,13,16-tetraoxa-1,10-diazatricyclo[8.8.7.1,20,24]hexacosa-20,22,24(26)
-triene;
```

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF non-aq 25°C 100% C H K1=6.55 1999BHa (100443) 981
Medium: MeOH, 0.05 M Et4NClO4. By calorimetry DH(K1)=-8.2 kJ mol-1.
Method: by competition with Ag+, using Ag/Ag+ electrode.
****
C20H32N2O4 L CAS 61696-66-0 (6497)
4,7,13,16-Tetraoxa-1,10-diazatricyclo[8.8.7.1,20,24]hexacosa-20,22,24(26)-triene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF non-aq 25°C 100% C H K1=4.44 1999BHa (100460) 982
Medium: MeOH, 0.05 M Et4NClO4. By calorimetry DH(K1)=-4.6 kJ mol-1.
Method: by competition with Ag+, using Ag/Ag+ electrode.
****
C20H35N5O10 H5L (6545)
1,4,7,10,13-Pentaazacyclopentadecane-N,N',N",N"',N""-pentaethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl NaNO3 25°C 0.20M C K1=7.31 1991KKa (100546) 983
****
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
---
Sr++ EMF KCl 20°C 0.10M C K1=2.6 1981SFa (100577) 984
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
---
Sr++ EMF alc/w 25°C 100% C K1=4.87 2004ZTa (100708) 985
Medium: 100% methanol, 0.05 M Bu4NClO4. Method: Ag electrode,
competition with Ag+ ion.

Sr++ con mixed 25°C 20% C K1=3.50 2003SIa (100709) 986
Medium: 20% w/w propylene carbonate/ethylene carbonate.

Sr++ vlt non-aq 25°C 100% C K1=4.26 1991SSb (100710) 987
Method: competitive complexation with Tl+; use of Tl(Hg)/Tl couple.
Medium: acetonitrile, 0.05 M Et4NClO4.

Sr++ cal oth/un 40°C 0.0 U T K1=2.56 1971INa (100711) 988
Isomer B. K1(10 C)=2.80, K1(25 C)=2.64. For isomer A: K1=3.43(10 C),
3.24(25 C), 3.16(40 C)

****
C20H40N2O6 L Cryptand 2,2,2H (6606)
1,10-Diaza-4,7,14,17,23,26-Hexaoxabicyclo[10.8.8]octacosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% M K1=4.81 1990LNa (100788) 989
Medium: 95% MeOH, 0.05 M Bu4NBr. For the 12,19-dihydroxy- analogue: K1=7.21
****
C20H40N2O6 L Cryptand 3,2,1H (6589)
1,7-Diaza-4,11,14,17,23,26-hexaoxabicyclo[13.8.5]octacosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% M K1=4.64 1990LNa (100797) 990
Medium: 95% MeOH, 0.05 M Bu4NBr. For the 9,19-dihydroxy- analogue: K1=7.37
****
C20H40N2O7 L Cryptand 3,2,2 CAS 31255-22-8 (1763)
Cryptand 3,2,2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 90% M K1=7.06 1977LSc (100822) 991
Medium: 90% (w/w) MeOH/H2O, 0.1 M Et4NBr.

Sr++ cal R4N.X 25°C 0.06M C H 1976KLc (100823) 992
Medium: 0.057 M Me4NBr. Method: flow microcalorimetry.
DH(K1)=-13.8 kJ mol-1, DS(K1)=18 J K-1 mol-1.

Sr++ gl R4N.X 25°C 0.05M C I K1=3.4 1975LSc (100824) 993
In 95% MeOH: K1=7.06
****
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
---
Sr++ gl NaNO3 25°C 0.10M C K1=2.69 1991DHa (100863) 994
****
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
---
Sr++ gl NaNO3 25°C 0.10M C K1=3.27 1989HBa (100868) 995
****
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

```
------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M U        K1=6.1         1978LMa (100893) 996
                                         K(Sr+HL)=2.6
******************************************************************************
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
------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M U        K1=5.02        1988HSb (100932) 997
******************************************************************************
C20H44N4O4              L                         (6730)
1,4,7,10-Tetra-(2-methoxyethyl)-1,4,7,10-tetrazacyclododecane;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C        K1=5.00        1993SFb (100948) 998
Medium: 0.1 M Et4NClO4.
******************************************************************************
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
------------------------------------------------------------------------------
Sr++       gl  NaNO3  25°C 0.10M C        K1=3.81        1989HBa (100961) 999
******************************************************************************
C20H48N4O8P4          H4L                         (6569)
1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetrakis(methyleneethylphospinic acid);
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M C        K1=8.86        1991LSc (100996)1000
******************************************************************************
C21H21N2O8Cl          H2L    Demeclocycline   CAS 64-73-3  (5759)
7-Chloro-6-demethyltetracycline;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Sr++       gl  KNO3   25°C 0.10M C        K1=4.06        1979DDd (101186)1001
Also data for other tetracycline analogues.
******************************************************************************
C21H22O7                L                         (7458)
1,8-[(3,6,9-Trioxaundecane-1,11-diyl)dioxy]xanthone;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Sr++       sp  alc/w  25°C 100%  U        K1=2.77        1996BCf (101208)1002
Medium: MeOH. K(L+H)=-1.85. Data also for the 3,6,9,12-tetraoxa and
3,6,9,12,15-pentaoxa analogues
******************************************************************************
```

C21H31N5O8 H3L (7254)
1,4,7,10-Tetraazacyclododecane-1-(4-nitrobenzyl)-4,7,10-triethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.10M M K1=9.23 1996CHc (101408)1003
Medium: 0.1 M Me4NCl.
****
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
---
Sr++ EMF KCl 20°C 0.10M C K1=4.7 1981SFa (101417)1004
Method: Pt/H2 electrode.
****
C21H42N4O6S L CAS 503465-05-2 (9248)
4,12,18,21,26,29-Hexaoxa-1,7,9,15-tetraazabicyclo[13.8.8]hentriacontane-8-thione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% C K1=5.09 2004KVa (101467)1005
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.
****
C22H17N4O14ClP2S2 H8L ClPhosphonazo 3 CAS 1914-99-4 (2577)
2,7-Bis((4-chloro-2-phosphophenyl)azo)chromotropic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp KNO3 25°C 0.20M U 1967BMc (101582)1006
B(SrH8L2)=95.6
****
C22H24N2O8 H2L Tetracycline CAS 60-54-8 (2201)
Tetracycline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal oth/un 25°C ? U T H 1995OCa (101827)1007
Keff(Sr+L)=-3.19
Medium: 20mM Tris(hydroxymethyl)aminomethane, pH 9.5. DH=-45.2 kJ mol-1,
DS=-59 J K-1 mol-1

Sr++ gl NaNO3 25°C 0.10M C M K1=7.10 1989GAb (101828)1008
K(SrL+Gly)=3.80
****
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

---
Sr++ gl KNO3 20°C 0.10M U K1=4.05 1989SLa (101842)1009
****
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
---
Sr++ gl KNO3 20°C 0.10M U K1=9.66 1989SLa (101859)1010

Sr++ gl KCl 25°C 0.10M U K1=10.12 1967OTb (101860)1011
****
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
---
Sr++ gl R4N.X 25°C 0.10M C K1=5.13 1993YTa (101986)1012
****
C22H26O10 H2L (5628)
1,10-bis(2-Carboxymethoxy-phenyl)-1,4,7,10-tetraoxadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 90% M K1=4.72 1998KLa (102010)1013
Medium: 90% v/v MeOH/H2O, 0.1 M Me4NCl
****
C22H36N2O6 L Bz-Cryptand 222 CAS 31250-18-7 (2269)
5,6-Benzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicylo[8:8:8]hexacosa-5-ene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.05M U H K1=7.1 1998DBa (102282)1014
Medium: 0.05 M Et4NClO4. By calorimetry: DH(K1)=-38.1 kJ mol-1,
---
Sr++ EMF alc/w 25°C 100% U H K1=10.32 1987BUb (102283)1015
In MeOH, 0.05M Et4NClO4. DH=-34.3

Sr++ ISE NaClO4 25°C 0.10M U K1=7.50 1984CTc (102284)1016
****
C22H40NO5PS HL CAS 1702-50-7 (5320)
Dioctyl phenylsulfonylphosphoramidate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ dis oth/un ? ? U K1=3.55 B2=6.50 1969SKc (102352)1017
****
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
---
Sr++ gl NaNO3 25°C 0.10M C K1=4.10 1991DHa (102404)1018
****
C22H44N2O7 L Cryptand 3,2,2H (6607)
1,10-Diaza-4,7,14,17,20,26,29-Heptaoxabicyclo[13.8.8]hentriacontane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% M K1=6.53 1990LNa (102418)1019
Medium: 95% MeOH, 0.05 M Bu4NBr. For the 12,22-dihydroxy- analogue: K1=8.94
****
C22H44N2O8 L Cryptand 3,3,2 CAS 132162-57-3 (1762)
Cryptand 3,3,2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.05M C K1=2.0 1975LSc (102432)1020
****
C22H44N6O5S2 L CAS 503465-08-5 (9241)
9,20,23,28,31-Pentaoxa-1,4,6,12,14,17-hexaazabicyclo[15.8.8]tritriacontane-5,13-dit
hione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% C K1=2.89 2004KVa (102442)1021
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.
****
C22H46N2O4 L CAS 69703-24-8 (2449)
N,N'-Bis(2-dimethylpropane)-cyclo-1,10-diaza-4,7,13,16-tetraoxaoctadecane)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 93% U K1=2.5 1978WVa (102453)1022
Medium: 93% MeOH/H2O
****
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
---
Sr++ gl R4N.X 25°C 0.10M U K1=1.5 1978LMa (102492)1023
****
C23H23NO5 L CAS 218619-58-0 (7808)
Dibenzo-pyridino-18-crown-6;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF alc/w 25°C 100% C K1=2.36 2004ZTa (102666)1024

Medium: 100% methanol, 0.05 M Bu4NClO4. Method: Ag electrode,
competition with Ag+ ion.
****
C23H30N2O4 L CAS 361454-16-2 (8960)
N-(Phenylmethylene)-4-(1,4,7,10-tetraoxa-13-azacyclopentadec-13-yl)benzamine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	sp	non-aq	RT	100%	C		K1=3.64		2001AVa	(102753)1025

Method: spectrophotometric titration. Medium: acetonitrile.
****
C24H20B- HL CAS 4358-26-3 (2489)
Tetraphenylborate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	dis	non-aq	25°C	100%	U	I	K1=2.15	B2=5.15	1969PKb	(102909)1026

Medium: 0.01-0.10 nitrobenzene. K1(0.01)=2.20, K1(0.05)=2.30
K2(0.01-0.10)=3.0, (tracer amounts Sr++)
****
C24H20N4O14Cl2P2S2 H8L (4165)
2,7-Bis(4'-chloro-5'-methyl-2'-phosphonophenylazo)chromotropic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	sp	KNO3	25°C	0.20M	U				1967BMc	(102916)1027
							B(SrH8L2)=96.4			

****
C24H20N4O14S4 H6L CAS 14979-11-4 (4163)
2,7-Bis(4'-methyl-2'-sulfophenylazo)chromotropic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	sp	KNO3	25°C	0.20M	U		K1=3.20		1967BVa	(102921)1028

****
C24H24N2O8 H4L CAS 89593-26-0 (8632)
N,N'-[1,2-Ethynediylbis(2,1-phenylenemethylene)]bis[N-(carboxymethyl)]glycine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=4.2		1984VSc	(102950)1029

****
C24H26N2O8 H4L CAS 89561-09-1 (8633)
N,N'-[1,2-Ethenediylbis(2,1-phenylenemethylene)]bis[N-(carboxymethyl)]glycine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Sr++	gl	KCl	20°C	0.10M	U		K1=4.2		1984VSc	(102975)1030

****
C24H26N2O8 H4L CAS 89561-11-5 (8635)

N,N'-[1,2-Ethenediylbis(4,1-phenylenemethylene)bis[N-(carboxymethyl)]glycine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 20°C 0.10M U K1=2.8 1984VSc (102980)1031
****
C24H28N2O8 H4L CAS 89561-10-4 (8634)
N,N'-[1,2-Ethanediylbis(2,1-phenylenemethylene)]bis[N-(carboxymethyl)]glycine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 20°C 0.10M U K1=3.1 1984VSc (103008)1032
****
C24H32O8 L DiBz-24-Crown-8 CAS 14174-09-5 (580)
2,3:14,15-Dibenzo-1,4,7,10,13,16,19,22-octaoxacyclotetracosa-2,14-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ con mixed 25°C 20% C K1=4.07 2003SIa (103179)1033
Medium: 20% w/w propylene carbonate/ethylene carbonate.
****
C24H36N4O4 L Py-2-18-aneN2O4 CAS 103837-13-4 (8062)
7,16-Bis(2-pyridinylmethyl)-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KNO3 25°C 0.10M C K1=4.87 1986DSa (103267)1034
****
C24H36O21 H6L CAS 71735-94-9 (7414)
1,4,7,10,13,16,19,22,25-Nonaoxacycloheptacosane-2,3,11,12,20,21-hexacarboxylic
acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.10M M K1=5.1 1991FGb (103310)1035
B(SrHL)=9.5
Medium: 0.10 M Et4NNO3.
****
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
---
Sr++ gl NaNO3 25°C 0.20M C 1991KKa (103386)1036
K(Sr+H2L)=5.85

Sr++ EMF KCl 20°C 0.10M C K1=6.5 1981SFa (103387)1037
Method: Pt/H2 electrode.
****
C24H44O8 L Dicy-24-crown-8 CAS 17455-23-1 (2401)

2,3,14,15-Dicyclohexyl-1,4,7,10,13,16,19,22-octaoxacyclotetracosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ con mixed 25°C 20% C K1=3.87 2003SIa (103440)1038
Medium: 20% w/w propylene carbonate/ethylene carbonate.
****
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
---
Sr++ gl NaNO3 25°C 0.10M C K1=4.13 1991DCa (103456)1039
****
C24H48N2O9 L Cryptand 3,3,3 CAS 132162-61-9 (1761)
Cryptand 3,3,3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.05M C K1=<2 1975LSc (103468)1040
****
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
---
Sr++ gl R4N.X 25°C 0.10M U K1=6.7 1981GLa (103493)1041
****
C24H48N6O6S2 L CAS 503465-10-9 (9242)
9,12,23,26,31,34-Hexaoxa-1,4,6,15,17,20-hexaazabicyclo[18.8.8]hexatricontane-5,16-d
ithione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% C K1=4.09 2004KVa (103509)1042
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.
****
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
---
Sr++ gl NaNO3 25°C 0.10M C K1=3.28 1989HBa (103556)1043
****
C25H21N3O6S H3L Xylidyl blue I CAS 14936-97-1 (2895)
4-Hydroxy-3(2-hydroxy-3(2,4-dimethylphenylaminocarbonyl)-1-naphthylazobenzeneHSO3
Magonsulfonate;

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

Sr++ sp alc/w 25°C 15% U 1975SZa (103609)1044
K(Sr+2H2L+2OH=SrH2L2+H20)=8.7
Medium: 15% EtOH/H2O
****
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
---
Sr++ gl NaNO3 20°C 0.1M U 1963AEa (103822)1045
K(Sr+HL)=2.20
****
C25H50N4O5 L CAS 61136-92-3 (1535)
Pentaoxa-4,10,16,22,27-tetraaza-1,7,13,19-tricyclo-tetratriacontane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.10M U K1=2.8 1981GLa (103838)1046
****
C25H50N4O8S L CAS 503465-06-3 (9249)
4,7,15,18,24,27,32,35-Octaoxa-1,10,12,21-tetraazabicyclo[19.8.8]heptatriacontane-11
-thione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% C K1=7.05 2004KVa (103848)1047
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.
****
C26H25NO9S H4L Semi-Xylenol O (426)
3-(N,N-Di(carboxymethyl)aminomethyl)-2-cresolsulfonephthalein;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp KNO3 25°C 0.10M U K1=5.30 1974YOa (103950)1048
B(SrHL)=13.03
****
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
---
Sr++ gl R4N.X 25°C 0.10M C K1=5.17 1993YTa (103972)1049
****
C26H28O4 H2L B(CH2AcAcCH2)2B (2253)
3,5,16,18-Tetraoxo[7.7]metacyclophane ;Cyclo-(-C6H4.(CH2)2.CO.CH2.CO.(CH2)2-)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl diox/w 24°C 50% U K1=2.8 1979ACa (104022)1050

****
C26H32N2O2 L CAS 588691-41-2 (9066)
4-{2-[10-(2-Morpholinoethyl)-9-anthryl]ethyl}morpholine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp diox/w 25°C 40% C K1=4.20 2003GHb (104039)1051
K(SrL+Sr)=2.07
Method: fluorescence spectroscopy. Medium: 40% w/w dioxane/H2O, 0.05 M Et4NClO4.
****
C26H32N2S2 L CAS 677034-81-0 (9064)
4-(2-{10-[2-(1,4-Thiazinan-4-yl)ethyl]-9-anthryl}ethyl)thiomorpholine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% C K1=4.88 2003GHa (104045)1052
K(SrL+Sr)=2.09
Method: fluorescence spectroscopy. Medium: acetonitrile, 0.05 M Et4NClO4.
****
C26H34N4 L CAS 677034-80-9 (9063)
1-(2-{10-[2-Piperazinoethyl]-9-anthryl}ethyl)piperazine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% C K1=6.23 2003GHa (104078)1053
K(SrL+Sr)=4.14
Method: fluorescence spectroscopy. Medium: acetonitrile, 0.05 M Et4NClO4.
****
C26H34N6O8 H4L CAS 132709-65-0 (8941)
3,6,14,17,23,24-Hexaazatricyclotetracosa-1,8,10,12,19,21-hexaene-3,6,14,17-tetraace
tic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl KCl 25°C 0.10M M K1=12.7 1996MBb (104101)1054
****
C26H34O8 H2L (3082)
1,4-Bis(2-carboxybutoxyphenyl)-1,4-dioxabutane; (HOOCCH(C4H9)O(C6H4)OCH2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 90% M K1=6.28 1998KLa (104107)1055
Medium: 90% v/v MeOH/H2O, 0.1 M Me4NCl
****
C26H36N2O6 L DiBzCryptand222 (746)
5,6,14,15-Dibenzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo[8.8.8]hexacosan-5,14-di
ene;

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

---
Sr++ gl R4N.X 25°C 0.05M U H 1998DBa (104145)1056
Medium: 0.05 M Et4NClO4. By calorimetry: DH(K1)=-29.6 kJ mol-1,
---
Sr++ EMF alc/w 25°C 100% U H K1=8.83 1987BUb (104146)1057
In MeOH, 0.05M Et4NClO4. DH=-25.9 kJ mol-1

Sr++ ISE NaClO4 25°C 0.10M U I K1=6.38 1984CTc (104147)1058
In propylene carbonate, K1=13.4
****
C26H36N2O6Cl2 H2L (7215)
7,16-Bis((5-chloro-2-hydroxybenzyl)-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal non-aq 25°C 100% C 1995ZBa (104158)1059
K(Sr+H2L)<2
Medium: methanol.
****
C26H38N2O4 L CAS 80757-23-9 (2450)
N,N'-Bis(benzyl)-1,10-diaza-4,7,13,16-tetraoxacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 93% U K1=4.2 1978WVa (104191)1060
Medium: 93% MeOH/H2O
****
C26H48N2O6 L (6003)
5,6,14,15-Dicyclohexyl-4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo[8.8.8]hexacosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF alc/w 25°C 100% U H K1=8.59 1987BUb (104298)1061
In MeOH. DH=-5.4 kJ mol-1
****
C26H52N4O5 L CAS 78648-22-3 (1534)
4,10,16,22,33-Pentaoxa-1,7,13,19-tetraazatricyclo[11,11,6,5(7.19)pentatriacontane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl R4N.X 25°C 0.10M U K1=2 1981GLa (104333)1062
****
C26H52N6O7S2 L CAS 503465-16-5 (9245)
4,12,20,26,29,34,37-Heptaoxa-1,7,9,15,17,23-hexaazabicyclo[21.8.8]nonatriacontane-8
,16-dithione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% C K1=5.30 2004KVa (104343)1063
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.

****
C26H52N6O7S2 L CAS 503465-12-1 (9243)
9,12,15,26,29,34,37-Heptaoxa-1,4,6,18,20,23-hexaazabicyclo[21.8.8]nonatricontane-5,19-dithione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% C K1=4.19 2004KVa (104353)1064
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.
****
C27H32NO5S+ L CAS 423763-94-4 (8997)
3-Ethyl-2-[4-(2,3,5,6,8,9,11,12-octahydro-1,4,7,10,13-benzopentaoxacyclopentadecin-15-yl)butadien
---
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% C K1=4.92 2002GVc (104519)1065
Medium: acetonitrile, 0.01 M Et4NClO4.
****
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
---
Sr++ sp non-aq RT 100% C K1=3.37 1998ABc (104764)1066
Medium: acetonitrile. Method: fluorescence spectroscopy.
****
C28H36N2O2 L CAS 588691-42-3 (9067)
4-{3-[10-(3-Morpholinopropyl)-9-anthryl]propyl}morpholine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp diox/w 25°C 40% C K1=4.86 2003GHb (104777)1067
K(SrL+Sr)=2.47
Method: fluorescence spectroscopy. Medium: 40% w/w dioxane/H2O, 0.05 M Et4NClO4.
****
C28H38O9 H2L (3355)
1,7-Bis(2-carboxybutoxyphenyl)-1,4,7-trioxaheptane; (HOOCCH(C4H9)O(C6H4)OCH2CH2)2O

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 90% M K1=4.35 1998KLa (104810)1068
Medium: 90% v/v MeOH/H2O, 0.1 M Me4NCl
****
C28H38O10 H2L CAS 100113-54-0 (3391)
1,10-Bis(2-carboxybutoxyphenyl)-1,4,7,10-tetraoxadecane;
(HOOC(C4H9)O(C6H4)OCH2CH2OCH2)2

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  alc/w  25°C  90%  M        K1=5.19        1998KLa (104814)1069
Medium: 90% v/v MeOH/H2O, 0.1 M Me4NCl
*************************************************************************
C28H40N2O6              L                          (2443)
Bicyclo-NcN'-1,10-diaza-4,7,13,16-tetraoxaoctadecane;(c=(CH2.C6H4.O.CH2)2)
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  alc/w  25°C  93%  U        K1=2.25        1978WVa (104819)1070
Medium: 93% MeOH/H2O
*************************************************************************
C28H40O6                L                       CAS 29471-17-8  (1262)
2,3:11,12-Bis(4'-tert-butylbenzo)-1,4,7,10,13,16-hexaoxacyclooctadecane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       EMF non-aq 25°C 100%  U        K1=7.82        1982MRb (104851)1071
Medium: anhydrous propylene carbonate, 0.1M Et4NClO4
*************************************************************************
C28H40O10               L    DiBz-30-crown10  CAS 104946-67-0  (1776)
2,3:17,18-Dibenzo-1,4,7,10,13,16,19,22,25,28-decaoxacyclotriaconta-2,17-diene;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       vlt non-aq 25°C 100%  C        K1=>5          1991SSb (104910)1072
Method: competitive complexation with Tl+; use of Tl(Hg)/Tl couple.
Medium: acetonitrile, 0.05 M Et4NClO4.
-------------------------------------------------------------------------
Sr++       sp  alc/w  25°C 100%  U  I     K1=4.74        1987GKb (104911)1073
Medium: MeOH. In DMF K1=3.86, in DMSO K1=3.61
-------------------------------------------------------------------------
Sr++       EMF non-aq 25°C 100%  U        K1=7.67        1982MRb (104912)1074
Medium: anhydrous propylene carbonate, 0.1M Et4NClO4
*************************************************************************
C28H42N2O6              L                          (2451)
N,N'-Bis(4-methoxybenzyl)-1,10-diaza-4,7,13,16-tetraoxacyclooctadecane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  alc/w  25°C  93%  U        K1=4.7         1978WVa (104929)1075
Medium: 93% MeOH/H2O
*************************************************************************
C28H52N4O10           H5L                       CAS 137203-80-6  (8096)
1-N-Dodecyltriethylenetetramine-N,N',N", N'",N"'-pentaethanoic acid;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  alc/w  25°C  50%  C        K1=12.4        2001SYb (104991)1076
```

K(SrL+H)=8.3
K(SrHL+H)=5.0
Medium: 50% EtOH/H2O, 0.10 M KNO3.
****
C28H56N6O8S2 L CAS 503465-18-7 (9246)
4,12,15,23,29,32,37,40-Octaoxa-1,7,9,18,20,26-hexaazabicyclo[24.8.8]dotetracontane-8,19-dithione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% C K1=5.83 2004KVa (105044)1077
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.
****
C28H56N6O8S2 L CAS 503465-14-3 (9244)
9,12,15,18,29,32,37,40-Octaoxa-1,4,6,21,23,26-hexaazabicyclo[24.8.8]dotetratriconta ne-5,22-dithio
---
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 95% C K1=4.51 2004KVa (105054)1078
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.
****
C29H42N2O6 L (2444)
Bicyclo-NcN'-1,10-diaza-4,7,13,16-tetraoxaoctadecane;(c=(CH2.C6H4.O.CH2)2.CH2)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 93% U K1=2.4 1978WVa (105149)1079
Medium: 93% MeOH/H2O
****
C30H30N20O10 L CAS 259886-49-2 (8959)
Cucurbit[5]uril;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sol none 25°C dil C K1=1.50 2001BCf (105220)1080
Method: dissolution of ligand in a 0.002-0.02 M SrX2 solution; spectro photometric measurement. For decamethylcucurbit[5]uril, K1=1.59.
****
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
---
Sr++ sp non-aq 25°C 100% U H K1=5.3 1996AAb (105258)1081
Medium: MeCN
tacyclo[12.12.12.1(6,9).1(19,22).1(31,34]hentetetraconta-4,6,8.....dodecaene
****
C30H44N2O6 L (2445)

Bicyclo-NcN'-1,10-diaza-4,7,13,16-tetraoxaoctadecane;(c=(CH2.C6H4.O.(C2H4)2)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	alc/w	25°C	93%	U		K1=2.55	1978WVa (105312)	1082

Medium: 93% MeOH/H2O

****

C30H49N3O8 H4L (5361)
Dodecylbenzenediethylenetriaminetetraethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	EMF	KNO3	20°C	0.10M	U		K(Sr+2H3L)=15.66 K(2Sr+2H2L)=14.40 K(3Sr+2HL)=13.93	1968CHa (105349)	1083

****

C30H57NO8 HL 18NH15-C5A CAS 79145-86-1 (5405)
2-Carboxy-3-N-octadecanylformamide-1,4,7,10,13-pentaoxycyclopentadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	alc/w	25°C	90%	U		K1=4.1 B2=8.5	1984FWa (105383)	1084

Medium: 90% v/v MeOH/H2O, 0.05 M R4NX

****

C30H62N2O3 L (2956)
1,10-Di(decylaza)-4,7,13-trioxacyclopentadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	alc/w	25°C	100%	U	H	K1=5.44	1986BUa (105388)	1085

Medium: MeOH. DH(K1)=-23.2 kJ mol-1; DS=26 J K-1 mol-1

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	C	M	K1=7.46 K(SrL+H)=10.11 K(SrL+Sr)=4.42 K(Sr2L+H)=8.40	1998GBa (105494)	1086
Sr++	sp	KNO3	25°C	0.10M	U		K1=7.71 K(Sr+HL)=5.44 K(Sr+H2L)=2.24 K(Sr+SrL)=4.89 K(Sr+SrHL)=2.1	1974YOa (105495)	1087

****

C31H46N2O6 L (2446)
Bicyclo-NcN'-1,10-Diaza-4,7,13,16-tetraoxaoctadecane;(c=(CH2.C6H4.O.C2H4)2.CH2)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	alc/w	25°C	93%	U		K1=2.55	1978WVa	(105554)1088

Medium: 93% MeOH/H2O

****

C32H30N2O8 H4L CAS 81374-97-2 (8216)
N,N'-[1,8-Naphthalenediylbis(3,1-phenylenemethylene)]bis[N-(carboxymethyl)]-glycine
;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	U		K1=3.0	1982LVa	(105589)1089

****

C32H30N2O8 H4L CAS 81374-96-1 (8215)
N,N'-[1,8-Naphthalenediylbis(4,1-phenylenemethylene)]bis[N-(carboxymethyl)]-glycine
;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	25°C	0.10M	U		K1=3.3	1982LVa	(105594)1090

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	oth/un	25°C	0.10M	U		K1=7.75	1981GMd	(105613)1091
							B(SrHL)=17.99		
							B(Sr2L)=11.83		

****

C32H37NO9S H4L SemiMeThymolBlu (427)
3-(N,N-Di(carboxymethyl)-aminomethyl)thymolsulfonephthalein;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sp	KNO3	25°C	0.10M	U		K1=5.34	1974YOa	(105665)1092
							B(SrHL)=13.72		

****

C32H38N4O6Cl2 HL CAS 172033-56-6 (8675)
2,2'-[1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7,16-diylbis(methylene)]bis[5-Cl
-8-quinolinol]

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	non-aq	25°C	100%	C	H		1995ZBa	(105681)1093
							K(Sr+HL)=4.67		

Medium: methanol. DH(K)=-24.6 kJ mol-1, DS(K)=7.1 J K-1 mol-1.

****
C32H38N4O6Cl2 H2L (7214)
7,16-Bis((5-chloro-8-hydroxy-7-quinolinyl)methyl)-1,4,10,13-tetraoxa-7,16-diazacycl
ooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal alc/w 25°C 100% U H 1996BBf (105692)1094
K(Sr+H2L)=4.43
Medium: MeOH; 0.1 M Me4NCl. DH(K)=-13.2 kJ mol-1. Data also for similar
lariat ligands with substituted oxine side chains
****
C32H46N2O8Cl2 L CAS 181706-75-2 (8626)
3,18-Dichlorododecahydro-5H,16H-6,15-(ethanoxyethanoxyethano)dibenzohexaoxadiazacyc
lohexacosine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal non-aq 25°C 100% C H K1=3.72 1998ZBc (105790)1095
Medium: MeOH. DH(K1)=-13.2 kJ mol-1, DS(K1)=27.0 J K-1 mol-1.
****
C32H48N2O6 L (2447)
Bicyclo-NcN'-1,10-diaza-4,7,13,16-tetraoxaoctadecane;(c=(CH2.C6H4.O.C3H6)2)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 93% U K1=3.1 1978WVa (105804)1096
Medium: 93% MeOH/H2O
****
C32H58N2O12 H2L CAS 88454-81-3 (5409)
2,11-Bis(carboxy)-3,12-bis(octanylformamide)-18-crown-6 (anti);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 90% U K1=10.0 1984FWa (105839)1097
Medium: 90% v/v MeOH/H2O, 0.05 M R4NX
****
C32H58N2O12 H2L CAS 88454-82-4 (5408)
3,11-Bis-carboxy-2,12-bis(octanylformamide)-18-crown-6 (syn);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 90% U K1=8.9 1984FWa (105845)1098
B(SrHL)=12.8
Medium: 90% v/v MeOH/H2O, 0.05 M R4NX
****
C32H64N4O10 L CAS 42133-16-4 (8579)
4,10,13,19,25,28,33,36,41,44-Decaoxa-1,7,16,22-tetraazatricyclo[20.8.8.87,16]hexate
tracontane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	alc/w	25°C	90%	M		K1=5.5 K(SrL+Sr)=5.5	1977LSc (105854)	1099

Medium: 90% (w/w) MeOH/H2O, 0.1 M Et4NBr.

****

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]tetratetetraconta
pentadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sp	non-aq	25°C	100%	U	H	K1=6.01	1996AAb (105919)	1100

Medium: CH3CN

.13.1(6,10).1(20,24).1(33,37)]tetratetraconta-4-6-8-10(44),11...pentadecaene

****

C33H41N3O6Cl2 L CAS 181706-78-5 (8628)
3,18-Dichlorohexahydro(ethanoxyethanoxyethano)-23,27-nitrilodibenzotetraoxadiazacyc
lopentacosine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	non-aq	25°C	100%	C	H	K1=3.22	1998ZBc (105930)	1101

Medium: MeOH. DH(K1)=18.5 kJ mol-1, DS(K1)=124 J K-1 mol-1.

****

C34H42N2O6Cl2 L CAS 181706-79-6 (8629)
3,18-Dichlorooctahydro-5H,16H-6,15-(ethanoxyethanoxyethano)tribenzotetraoxadiazacyc
lodocosine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	cal	non-aq	25°C	100%	C	H	K1=3.80	1998ZBc (106061)	1102

Medium: MeOH. DH(K1)=20.2 kJ mol-1, DS(K1)=141 J K-1 mol-1.

****

C34H53O8Br H2L CAS 38784-08-6 (2336)
5-Bromolasalocid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	alc/w	25°C	100%	M		K(Sr+HL)=5.66 K(Sr+2HL)=7.8	1988JTa (106102)	1103

Medium: MeOH

****

C34H54O8 H2L Lasalocid CAS 25999-20-6 (2335)
Lasalocid acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	nmr	non-aq	20°C	100%	C			1998MLa (106157)	1104

```
                                        K(Sr+HL)=0.5
Medium: CD3OD. Method: 13C nmr.
-------------------------------------------------------------------------
Sr++       dis non-aq 25°C 100%  U                      1993LPa (106158)1105
                                        K(Sr+2HL=SrL2+2H)=-9.7
Method: extraction into CHCl3.  K is for Sr(aq)+2HL(org)=SrL2(org)+2H(aq).
-------------------------------------------------------------------------
Sr++       gl  alc/w  25°C 100%  M                      1988JTa (106159)1106
                                        K(Sr+HL)=5.71
                                        K(Sr+2HL)=7.7
-------------------------------------------------------------------------
Sr++       cal alc/w  25°C 100%  U   H                  1988PPa (106160)1107
Medium: MeOH. DH(SrL)=14.6 kJ mol-1; DS=158. DH(SrL2)=25.2; DS=239
-------------------------------------------------------------------------
Sr++       gl  alc/w  25°C 100%  U                      1982BDc (106161)1108
                                        K(Sr+4HL)=5.60
Medium: MeOH
*************************************************************************
C34H64O10             H2L    D218-6A2         CAS 88454-79-9  (5406)
11,12-Bis(dodecanyl)-1,2-bis(carboxy)-1,4,7,10,13,16-hexaoxacyclooctadecane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  alc/w  25°C  90%  U        K1=10.1        1984FWa (106179)1109
                                        B(SrHL)=14.4
Medium: 90% v/v MeOH/H2O, 0.05 M R4NX
*************************************************************************
C35H45N9                L                      CAS 312304-65-7  (7962)
29,32,35-TriMe-1,14,29,32,35,38,39,40,41-Nonaazahexacyclohentetraconta-3,5,7,8,10,1
2,16,18,20,21,
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M U        K1=8.89        2001BBa (106205)1110
                                        K(SrL+H)=8.48
                                        K(SrHL+H)=7.29
                                        K(SrH2L+H)=5.59
Medium: 0.10 M NMe4NO3.
*************************************************************************
C36H36N24O12            L    Cucurbituril     CAS 283175-97-3  (6744)
Cucurbit[6]uril;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Sr++       sol none   25°C  dil  C        K1=2.90        2001BCf (106277)1111
Method: dissolution of ligand in a 0.002-0.02 M SrX2 solution;
spectrophotometric measurement.
-------------------------------------------------------------------------
Sr++       cal mixed  25°C  50%  C   H    K1=3.18        1998BJb (106278)1112
Medium: 50% (v/v) HCOOH/H2O. DH(K1)=-10.6 kJ mol-1
```

****
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
---
Sr++ sp non-aq 25°C 100% U K1=4.2 1996AAd (106318)1113
B(Sr2L)=7.86
Medium: CH3CN
****
C36H44O7P2 L (5725)
1,17-Di(diphenylphosphinyl))-3,6,9,12,15-pentaoxaseptadecane;
Ph2PO.C2H4(O.C2H4)4OC2H4POPh2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal non-aq 25°C 100% U K1=4.23 B2=6.06 1991SGa (106342)1114
Medium: CH3CN; Sr as Sr(NCS)2
****
C36H58N10O10S4 H5L CAS 136685-24-0 (6875)
(1-Cys-,1'-Cys,4-Cys-,4'-Cys)-dithiobis(Ac-1-Cys-Pro-D-Val-4-Cys-NH2);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl non-aq 20°C 100% U K1=4.96 B2=9.02 1993EAa (106444)1115
Method: circular dichroism. Medium: MeCN, ClO4-
****
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
---
Sr++ ISE alc/w 25°C 100% M K1=5.96 1984CTa (106537)1116
Medium: MeOH. In EtOH K1=9.4

Sr++ ISE non-aq 25°C 100% M K1=6.20 1984CTa (106538)1117
Medium: N,N-dimethylformamide. In DMSO K1=5.10
****
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
---
Sr++ sp KNO3 25°C 0.10M U K1=7.05 1974YOa (106619)1118
B(SrHL)=18.13
B(SrH2L)=26.04
K(Sr+SrL=Sr2L)=4.58
K(Sr+SrHL=Sr2HL)=1.9
****
C40H36O4P2 HL CAS 126763-08-4 (7791)

1,2-Bis[2-(diphenylphophinylmethyl)phenoxy]-ethane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF non-aq 25°C 100% C K1=8.64 1997PKc (106731)1119
Medium: nitrobenzene
****
C40H36O5P2 L CAS 86341-96-0 (5724)
1,7-Di(2-diphenylphosphinyl)phenyl-1,4,7-trioxaheptane;Ph2PO.C6H4.O.C2H4.O.C2H4.O.C6H4.POPh2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF non-aq 25°C 100% C K1=10.54 1997PKc (106749)1120
Medium: nitrobenzene

Sr++ EMF non-aq 25°C 100% C K1=10.80 B2=15.17 1997PKc (106750)1121
Medium: nitrobenzene
****
C40H50N20O10 L CAS 143902-45-8 (8935)
Decamethylcucurbit[5]uril;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal mixed 25°C 50% C IH K1=3.40 2000ZKb (106813)1122
Medium: 50% v/v formic acid/H2O. DH(K1)=-23.1 kJ mol-1, DS(K1)=-12 J K-1 mol-1. By potentiometry in aqueous 0.05 M Et4NCl, K1=2.21, B(Sr2L)=4.34.
****
C42H40O5P2 L CAS 163172-12-6 (2080)
Bis((2-diphenylphosphinylmethyl)phenyl)diethyleneglycol ether;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF non-aq 25°C 100% C K1=8.00 1997PKc (106932)1123
Medium: nitrobenzene
****
C42H52N4O6 L CAS 405917-44-4 (9250)
Tetraoxadiazacyclooctadecane-7,16-diylbis(methylene)bis-methyl-4-pyridinylidenecyclohexadienone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp R4N.X 25°C 0.10M C 2004COa (106962)1124
K(Sr+H2L=Sr+2H)=14.14
Medium: buffered 0.1 M Et4NCl, pH 8.5.
****
C44H44O6P2 L CAS 126763-09-5 (7790)
1,8-Bis[2-(diphenylphosphinylmethyl)phenoxy]-3,6-dioxaoctane;

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

---
Sr++ EMF non-aq 25°C 100% C K1=7.14 1997PKc (107130)1125
Medium: nitrobenzene
****
C44H50N2O10 H2L CAS 329183-28-0 (8807)
25,27-Bis(carboxymethoxy)-26,28-bis[(N,N-diethylaminocarbonyl)methoxy]calix[4]arene
;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl non-aq 25°C 100% C K1=9.93 2000ABb (107147)1126
B(SrHL)=16.22
B(Sr2L)=12.7
B(Sr2HL2)=30.63
Medium: MeOH, 0.05 M Et4NClO4.
****
C44H52N4O8 L CAS 246035-33-6 (2925)
25,27-Bis(N,N-diethylaminocarbonylmethoxy)-26,28-bis(aminocarbonylmethoxy)calix[4]a
rene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% C K1=4.4 1999USa (107162)1127
Medium: MeOH, 0.10 M Et4NCl
****
C44H72N4O8 L CAS 61894-23-3 (8580)
7,16:25,34-Bis(ethanoxyethanoxyethano)dibenzo[1,4,17,20,7,14,23,30]tetraoxatetraaza
cyclodotriac..

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 90% M K1=4.9 1977LSc (107196)1128
K(SrL+Sr)=5
Medium: 90% (w/w) MeOH/H2O, 0.1 M Et4NBr. In H2O, K1=3.5.
****
C46H48O8P2 L CAS 119494-80-3 (7785)
1,14-Bis[2-(diphenylphosphinyl)phenoxy]-3,6,9,12-tetraoxatetradecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF non-aq 25°C 100% C K1=8.64 1997PKc (107277)1129
Medium: nitrobenzene
****
C46H58O6 HL (6716)
Calix[4]arene-O(1)-ethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 100% C K1=6.71 1993ABb (107298)1130
B(SrHL)=19.0

B(SrH2L)=31.34
B(SrH3L)=41.4
Medium: MeOH, 0.01 M Et4NClO4. Data also for tert-butyl and ethyl esters
****
C48H52O8P2 L CAS 126763-11-9 (7786)
1,14-Bis[2-(diphenylphosphinylmethyl)phenoxy]-3,6,9,12-tetraoxatetradecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF non-aq 25°C 100% C K1=9.96 1997PKc (107371)1131
Medium: nitrobenzene
****
C48H52O9P2 L CAS 198490-22-1 (7788)
1,17-Bis[2-(diphenylphosphinyl)phenoxy]-3,6,9,12,15-pentaoxaheptadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF non-aq 25°C 100% C K1=14.82 1997PKc (107375)1132
Medium: nitrobenzene
****
C48H54N6O8 L CAS 449738-94-7 (8791)
1,7-Dioxa-4,10-diazacyclododecane-4,10-bis[methylene-8-(1,3,3-trimethyl-6-nitro-spi
robenzopyran)]

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp alc/w 25°C 100% C K1=6.66 2002NFa (107385)1133
Medium: 100% MeOH. Method: electrospray ionization mass spectrometry.
****
C48H60O8 H2L R-Bu-Calixarene CAS 147513-53-9 (6705)
4-tert-Butylcalix[4]arenedicarboxylic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 100% C K1=8.3 1993ABb (107407)1134
B(Sr2L)=11.2
Medium: MeOH, 0.01 M Et4NClO4. Data also for di-tert-butyl ester
****
C48H64O4 L CAS 105880-81-7 (8677)
tert-Butylcalix-4-arene tetramethyl ether;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% C K1=3.21 2004BCb (107424)1135
Medium: acetonitrile, 0.01 M Et4NClO4.
****
C50H56O9P2 L CAS 198490-23-2 (7787)
1,17-Bis[2-(diphenylphosphinylmethyl)phenoxy]-3,6,9,12,15-pentaoxaheptadecane;

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

---
Sr++ EMF non-aq 25°C 100% C K1=12.71 1997PKc (107455)1136
Medium: nitrobenzene
****
C52H62N6O10 ; L CAS 190781-91-0 (8792)
1,4,10,13-Tetraoxa-7,16-diazacyclododecane-7,16-bis[methylene-8-(trimethyl-6-nitro-spirobenzopyra
---
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp alc/w 25°C 100% C K1=9.00 2002NFa (107481)1137
Medium: 100% MeOH. Method: electrospray ionization mass spectrometry.
****
C52H64O12 H4L R-Bu-Calixarene CAS 113215-72-8 (6704)
5,11,17,23-Tetra-(t-butyl)-25,26,27,28-tetrakis[(hydroxycarbonyl)methoxy]calix[4]arene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ gl alc/w 25°C 100% C K1=20.92 1993ABb (107494)1138
B(SrHL)=28.69
B(SrH2L)=34.89
In methanol; 0.01 M (CH3CH2)4NClO4
****
C52H68N4O8 CAS 150588-24-2 (3074)
25,26,27,28-Tetrakis-(N,N-diethylaminocarbonylmethoxy)calix[4]arene; L

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ EMF non-aq 25°C 100% C H K1=>9 1999USa (107502)1139
Medium: MeOH, 0.10 M Et4NCl. Method: by competition with Ag+.
DH(K1)=-13.6 kJ mol-1
****
C52H68N4O8 L (4823)
25,27-Bis(N,N-diethylaminocarbonylmethoxy)-26,28-bis(N-butylaminocarbonylmethoxy)calix[4]arene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% C K1=<1 1999USa (107511)1140
Medium: MeOH, 0.10 M Et4NCl
****
C52H69N3O6 H2L CAS 136158-03-7 (9132)
Tetra-t-butyl-calix[4]azacrown dione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 20°C 100% C B2=10.04 2003OAa (107523)1141
Medium: 100% acetonitrile, 0.01 M Et4NClO4.
****

C52H72O6 L (9263)
5,11,17,23-Tetra(t-butyl)-25,27-dimethoxy-26,28-dimethoxyethoxycalix[4]arene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sp	non-aq	25°C	100%	C		K1=3.27	2004BCb	(107529)1142

Medium: acetonitrile, 0.01 M Et4NClO4.

****

C56H80O8 L (9259)
5,11,17,23-Tetra(t-butyl)-25,26,27,28-tetramethoxyethoxycalix[4]arene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sp	non-aq	25°C	100%	C		K1=3.01	2004BCb	(107617)1143

Medium: acetonitrile, 0.01 M Et4NClO4.

****

C58H78O11 HL CAS 465527-74-6 (9287)
7,13,19,25-Tetra-t-butyl-28-methoxy-27,29,30-triethylacetate-2,3-dihomo-3-oxacalix[4]arene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sp	alc/w	25°C	100%	C		K1=3.0	2001MAa	(107626)1144

Medium: MeOH, 0.01 M Et4NCl.

****

C58H80O10 L (9264)
5,11,17,23-Tetra-t-butyl-25,27-di(2-methoxyethoxy)-26,28-di(ethylacetate)calix[4]arene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sp	non-aq	25°C	100%	C		B2=3.39	2004BCb	(107635)1145

Medium: acetonitrile, 0.01 M Et4NClO4.

****

C60H82N2O10 L CAS 155377-20-1 (8806)
5,11,17,23-Tetra-butyl-25,27-bis(carboxymethoxy)-bis[(N,N-diethylaminocarbonyl)methoxy]calix[4]ar

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	non-aq	25°C	100%	C		K1=10.78 B(SrHL)=16.36 B(Sr2L)=14.68 B(Sr2HL2)=30.9	2000ABb	(107670)1146

Medium: MeOH, 0.05 M Et4NClO4.

****

C60H84N4O8 L (8174)
25,26,27,28-Tetrakis-(N-ethylaminocarbonylmethoxy)calix[4]arene;

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

---
Sr++ sp alc/w 25°C 100% U H K1=4.6 2000ABa (107674)1147
Medium: 100% MeOH, DH(K1)=-10.9 kJ mol-1 by colorimetry
****
C60H84N4O8 L CAS 246035-32-5 (2735)
25,27-Bis(N,N-diethylaminocarbonylmethoxy)-26,28-bis(aminocarbonylmethoxy)-t-butylc
alix[4]arene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% C K1=5.4 1999USa (107683)1148
Medium: MeOH, 0.10 M Et4NCl
****
C64H80O6 L (9262)
5,11,17,23-Tetra-t-butyl-25,27-di(phenylmethoxy)-26,28-di(2-methoxyethoxy)-calix[4]
arene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% C K1=3.37 2004BCb (107764)1149
Medium: acetonitrile, 0.01 M Et4NClO4.
****
C66H80O8 L (9261)
5,11,17,23-Tetra(t-butyl)-25,27-diethoxycarbonylmethoxy-26,28-diphenylmethoxycalix[
4]arene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% C K1=2.47 2004BCb (107780)1150
Medium: acetonitrile, 0.01 M Et4NClO4.
****
C68H100N4O8 L CAS 246035-35-8 (3034)
25,27-Bis(N,N-diethylaminocarbonylmethoxy)-26,28-bis(N-butylaminocarbonylmethoxy)-t
-butylcalix[4]

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ sp non-aq 25°C 100% C K1=>6 1999USa (107808)1151
Medium: MeOH, 0.10 M Et4NCl
****
C68H100N4O8 L CAS 114155-16-7 (7183)
4-tert-Butylcalix[4]arene tetradiethylacetamide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Sr++ cal alc/w 25°C 100% U H 1995ABc (107821)1152
Medium: 100% Methanol. DH(K1)=-10.0 kJ mol-1, DS(K1)>139 J K-1 mol-1.
****
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
--------------------------------------------------------------------------------
Sr++       sp  alc/w  25°C 100%  C        K1=4.92        2004MFa (107840)1153
Medium: MeOH, 0.01 M Et4NCl.
********************************************************************************
C77H82O9                L                     CAS 253317-20-3  (9288)
p-Tert-butyldihomooxacalix[4]arene tetraphenyketone;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       sp  alc/w  25°C 100%  C        K1=4.5         1999MAb (107897)1154
Medium: MeOH, 0.01 M Et4NCl.
********************************************************************************
C102H174N6O73           L                     CAS 571203-64-0  (9253)
4,13-Bis(2-(6-deoxy-b-cyclodextrin-6-yl)aminoethylamidomethyl)-4,13-diazatrioxacycl
opentadecane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C        K1=5.05        2003WWa (107974)1155
                                         K(Sr+HL)=4.37
                                         K(Sr+H2L)=3.57
Medium: 0.10 M Et4NClO4.
********************************************************************************
C112H120N4O16P4         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
--------------------------------------------------------------------------------
Sr++       ISE NaCl    rt  0.01M C        K1=18.5        2003MGa (107994)1156
Method: segmented sandwich membrane ISE.
Phosphonic acid diethyl ester derivative: K1=21.4
********************************************************************************
C114H198N6O73           L                     CAS 571203-66-2  (9254)
4,13-Bis(8-(6-deoxy-beta-cyclodextrin-6-yl)aminooctylamidomethyl)-4,13-diazatrioxac
yclopentadecan
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Sr++       gl  R4N.X  25°C 0.10M C        K1=5.07        2003WWa (108001)1157
                                         K(Sr+HL)=4.45
                                         K(Sr+H2L)=4.06
Medium: 0.10 M Et4NClO4.
********************************************************************************
Polymer               H2L    X-14885A           (4547)
Antibiotic X14885A, calcium ionophore
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

Sr++ gl alc/w 25°C 100% U K1=6.8 1989ABb (108079)1158
Medium: MeOH

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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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