

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 K(Sr+2e=SrHg)=-64.248(-1.9004V)	(945)	1

Sr++	EMF	none	25°C	0.00	U			1972KKb K(Sr+2e=Sr/Hg)=-62.17(-1.839V)	(946)	2
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Sr++	oth	none	25°C	0.0	U	I		1962JTa K(Sr+2e)=-97.58(-2886 mV)	(947)	3
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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 Kso(Sr3L2)=-17.79	(1161)	4

AsW11039----- 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

As2W17H2061----- 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

B04H4- 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	K(Sr+H2BO3)=1.55	1976REa (1328)	8

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 K(Sr+HL)=1.18 K(SrL(s)=Sr+L)=-9.271	1994BPa (3378)	9
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	K(SrL(s)=Sr+L)=-7.39	1984MTb (3379)	10
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		Kso=-9.15	1972MBd (3380)	11
Sr++	dis	NaCl	25°C	1.00M	U		K1=1.28 B2=1.60 B3=1.70	1970HKa (3381)	12
Sr++	gl	none	25°C	0.0	U		K(Sr+HL)=1.24	1969NRa (3382)	13
Sr++	oth	none	25°C	0.0	U	T	Kso=-9.36	1968KRa (3383)	14
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		Kso/Kso(BaCO3(s))=-0.18	1953SCa (3384)	15
Activity coefficient of components in solid (Ba,Sr)CO3.									
Sr++	con	oth/un	25°C	dil	U		Kso=-8.57	1946KDa (3385)	16
Sr++	sol	oth/un	25°C	0.0	U	T	Kso=-9.28	1939HJa (3386)	17
Medium: 0 corr. Kso=-9.29(40 C)									
Sr++	sol	none	25°C	0.0	U	T	Kso(SrCO3(s))=-9.96	1937TWa (3387)	18

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

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 Kso(SrF2)=-8.61 1950TKa (7207) 48

Sr++ con none 27°C 0.0 U T Kso(SrF2)=-8.54 1923B0a (7208) 49
Kso=-8.60(0.3 C), -8.55(18 C)

GeW11039----- 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 1984C0a (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

I03- 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
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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
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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			1965K0a (8555)	55
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Kso=-5.55

Medium:HClO4. HL neglected

Sr++	con	none	25°C	0.0	U		K1=1.00	1952CMd (8556)	56
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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
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Sr++	sp	oth/un	25°C	?	U			1975BCb (9925)	58
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Using Raman: K1=0.76

Sr++	sol	NaClO4	25°C	0.50M	U	I	K1=0.06 B2=-0.5	1974FRf (9926)	59
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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
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 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 1963VWa (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
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Sr++	EMF	none	25°C	0.0	U	H		K1=0.82	1967HEb (12212)	64
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Method: H electrode. DH(K1)=4.8 kJ mol-1. DS=31.8 J K mol-1

Sr++	EMF	NaCl04	25°C	3.0M	C			K1=0.23	1961C0d (12213)	65
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Sr++	EMF	none	25°C	0.0	C			K1=0.85	1954GMb (12214)	66
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Method: H electrode

Sr++	EMF	none	25°C	0.0	C	T H		K1=0.82	1954GMb (12215)	67
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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
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Sr++	oth	oth/un	18°C	var	U			K1=0.82	1923K0a (12217)	69
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Medium: SrCl2 at various concentrations; method:colorimetry

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	NaNO3	25°C	0.10M	M			K(Sr+HL)=1.38	1996SSa (13330)	70
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Sr++	sol	oth/un	20°C	0.0	U			Ks(SrHL)=-6.92	1966SMb (13331)	71
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Sr++	sol	oth/un	25°C	0.0	U			Ks(SrHL)=-6.38	1962FRa (13332)	72
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Sr++	ix	NaCl	20°C	0.15M	U			K1=4.18	1962GGb (13333)	73
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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: Pr4NC1

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

 PW11039----- 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	1984C0a (13406)	77

 P207----- H4L Pyrophosphate CAS 2466-09-3 (198)
 Diphosphate; from (HO)2PO.0.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 B(Sr(OH)L)=7.7 Ks(Sr+SrL)=-7.5	1959W0a (13657)	79

At 40 C: K1=5.3, Ks=-7.5

Sr++ sp oth/un 19?°C var U K1=4.66 1957VAb (13658) 80

 P208----- 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			1974K0a (13698)	81

Ligand:metaphosphates, cyclic, (PO3)n n-, K1=2.70(n=4), 3.73(n=6), 4.30(n=8)

 P2W17061----- 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	1984C0a (13731)	82

alpha2 isomer

P3010----- H5L CAS 10380-08-2 (1001)
 Tripolyphosphate; from (HO)2PO.O.PO(OH).O.PO(OH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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	1959W0a (13912)	89

At 40 C: K1=7.0, B(Sr(OH)L)=8.4

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ix	NaCl04	20°C	0.23M	U		K1=2.03	1974K0a (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	1952M0a (13973)	93
By solubility K1=3.35									

P4012---- H4L CAS 13598-74-8 (234)
 Cyclotetrametaphosphate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ix	NaCl04	20°C	0.23M	U		K1=2.03	1974K0a (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	1952M0a (14023)	97
By solubility K1=5.08, K(SrL+Sr)=2.46									

P4013-----			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									

P6012-----			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.									

P6018-----			H6L				(233)		
Cyclohexametaphosphate;									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ix	NaCl04	20°C	0.23M	U		K1=3.73	1974K0a (14075)	100

P8024-----			H8L				(232)		
Cyclooctametaphosphate;									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ix	NaCl04	20°C	0.23M	U		K1=4.30	1974K0a (14087)	101

S--			H2L	Sulfide			CAS 7783-06-4	(705)	
Sulfide;									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo

-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)

S203-- 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									
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+20H)=-4.91									
SiW11039-----	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
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Sr++	sol	oth/un	20°C	var	U			1970KBd (17315)	133
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K_{so}=-12.6

K_{so}(3Sr+TeO₆)=-14.1

V04---		H3L					CAS 15457-75-7	(1586)	
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Vanadate; V0₂(OH)₃-- or polymers

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	gl	NaClO ₄	25°C	1.00M	U			1975KIc (17391)	134
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K(Sr+H₇PV12036)=3.66

Sr++	sol	NaCl	20°C	3.00M	U	I		1974IGa (17392)	135
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K(Sr+V0₃)=0.15

K(Sr+V4012(4-))=1.86

K_s(Sr(V0₃)₂(H₂O)₄)=-7.86

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

CH2O ₂		HL	Formic acid				CAS 64-18-6	(37)	
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Methanoic acid; H.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	sol	NaClO ₄	25°C	2.00M	U	I	K ₁ =1.25 B ₂ =1.91	1977FKa (17650)	136
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Sr++	gl	oth/un	25°C	0.0	U	T H	K ₁ =1.39	1956NAa (17651)	137
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Medium: 0 corr. K₁(35 C)=1.40, DH(K₁)=2.5 kJ mol⁻¹, DS=34.7 J K⁻¹ mol⁻¹

Sr++	sol	none	25°C	0.0	U		K ₁ =0.66	1952CMf (17652)	138
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Sr++	gl	oth/un	25°C	0.0	U		K ₁ =1.39	1948SCa (17653)	139
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CH ₃ NO		HL	Formaldoxime				CAS 62479-75-2	(4206)	
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Formaldoxime; CH₂:N.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	oth	oth/un	20°C	0.10M	U		K ₁ =8.8	1971BJa (17671)	140
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Paper electrophoresis, acetate-veronal buffer

CH ₃ O ₅ P		H3L	Phosphonoformic				CAS 4428-95-9	(5654)	
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Phosphonoformic Acid; O:P(OH)₂.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	gl	NaNO ₃	25°C	0.10M	C		K ₁ =2.94	1994SCa (17703)	141
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K(Sr+HL)=1.45

K(SrL+H)=6.08

CH403ClP 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

CH503P 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

CH504P 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

CH6N03P 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

CH606P2 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

CH607P2 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		K(Sr+HL)=1.11 K(Sr+2HL)=1.70	1973ADa (19073)	151
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		Kso=-6.4	1963STc (19075)	153

Sr++ con oth/un 18°C 0.0 U K1=2.54 1932MDa (19076) 154

 C2H3O2Br HL Bromoacetic acid 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	KN03	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
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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	NaN03	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.CO₂H

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaCl04	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
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C3H4O4 H2L Malonic acid CAS 141-82-2 (79)
Propanedioic acid; CH₂(COOH)₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaCl04	25°C	0.10M	U		K1=1.30	19680Va (24559)	181

Sr++	EMF	KCl	25°C	0.20M	U		K1=1.25 K(Sr+HL)=0.41	1938CKa (24560)	182
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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	NaCl04	25°C	2.00M	U	I	K1=0.58 B2=0.67	1977FKa (25054)	184
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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++ 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 NaCl04 25°C 0.10M U K1=1.43 19680Va (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 acid CAS 133-37-9 (94)

DL-Tartaric acid,DL-2,3-Dihydroxybutanedioic acid; HOOC.CH(OH).CH(OH).COOH

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

Sr++ gl NaCl04 25°C 1.00M M M 1988M0a (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+B04(H-1L)2=SrB04(H-1L)2)=3.9, Keff(SrL+B04(H-1L)2=SrB04(H-1L)2+L)=2.65. At pH 11.5									
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									
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.									
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									
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
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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
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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
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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-Thiapentane-1,5-diol; HO.CH2.CH2.S.CH2.CH2.OH

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

 C4H11N08P2 H5L CAS 2439-99-8 (2129)
 N-Carboxymethyl-N,N-bis(methylenephosphonic acid); HOOCH2.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; C4H9.0.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;

[illegible]

C5H4O2S	HL	2-Thenoic acid	CAS 527-72-0	(2312)
Thiophene-2-carboxylic acid; C4H3S.COOH				

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;				

Sr++ g1 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)

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

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

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; $\text{HOOC}.\text{CH}_2.\text{C}(\text{:CH}_2).\text{COOH}$				

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						CAS 328-50-7 (1146)	
2-Ketoglutaric acid; H0OC.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 K(SrL+H)=2.91	1984MMg (37493)	256

C5H8O2		HL						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; H0OC.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	19680Va (38217)	261

C5H8O4		H2L						CAS 601-75-2 (479)	
Ethylpropanedioic acid; H0OC.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	19680Va (38250)	262

C5H8O4		H2L						CAS 110-94-1 (420)	
Pentanedioic acid; H0OC.CH2.CH2.CH2.COOH									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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 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; H00C.(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	KN03	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	KN03	30°C	0.10M	U	H		1967GNc (39600)	277

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

 C5H10N07P H4L PMIDA CAS 5994-61-6 (2433)
 N-(Phosphonomethyl)iminodiethanoic acid; H2O3P.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KN03	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	19580Mb (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

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 K(SrA+L)=3.86 B(SrAL)=7.78	2000KAb (40847)	285

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

C5H13N07P2 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 K(Sr+HL)=2.39 K(Sr+SrL)=1.80	1983LSa (41755)	287

C5H13N07P2 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 K(Sr+HL)=2.40 K(Sr+SrL)=2.87	1983LSa (41759)	288

C5H14NO4P H2L (8071)

1-Amino-2-hydroxypentane-2-phosphonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	gl	NaCl04	25°C	0.1M	U		K1=3.86 K(Sr+HL)=2.90	1975SLa (41838)	289
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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
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Sr++	gl	KCl	25°C	0.10M	U		K1=4.85 K(Sr+HL)=4.72	1979KBa (41958)	290
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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
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Sr++	con	none	30°C	0.0	U	I M	K2=1.66	1979PSa (42149)	291
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Sr++	sp	oth/un	25°C	->0	U		K1=3.69	1960KAb (42150)	292
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Sr++	sp	oth/un	21°C	0.40M	U		B2=2.85	1955BKa (42151)	293
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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
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Sr++	sp	oth/un	21°C	0.40M	U		B2=1.89	1955BKa (42239)	294
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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
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Sr++	gl	KCl	25°C	0.10M	M		K1=2.28 B2=4.54	1987HAb (42267)	295
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C6H5NO2 HL Picolinic acid CAS 98-98-6 (391)

2-Pyridine-carboxylic acid; C5H4N.CO0H

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	gl	NaNO3	20°C	0.10M	U		K1=1.70	1960ANb (42599)	296
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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 K(Sr+HL)=1.88	1964PCa (44495)	306

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 K(SrL+H)=3.34	1984MMg (44540)	307

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 Tricarballic 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	NaCl04	25°C	1.00M	M	M		1988M0a (45657)	313
							K(Sr+H2L+(tartrate))=4.06		
Sr++	gl	NaCl04	20°C	1.00M	M			1983M0a (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	NaCl04	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	NaCl04	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 1946J0a (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; HOOCH2.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

 C6H12N07P 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

 C6H12N204 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

 C6H12N204 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

C6H1206 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

C6H1206 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

C6H1207 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
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Method: H electrode

 C6H1403 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
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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

C7H5N04		H2L					Quinolinic acid CAS 89-00-9	(567)	
2,3-Pyridinedicarboxylic acid; C5H3N.(COOH)2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=2.1	1958YYa (52630)	366

C7H5N04		H2L					CAS 499-80-9	(566)	
2,4-Pyridinedicarboxylic acid; C5H3N.(COOH)2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=2.1	1958YYa (52653)	367

C7H5N04		H2L					Dipicolinic aci CAS 449-83-2	(418)	
2,6-Pyridinedicarboxylic acid; C5H3N.(COOH)2									

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

C7H5N04		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									

C7H5N05		H3L					CAS 499-51-4	(3150)	
4-Hydroxypyridine-2,6-dicarboxylic acid; H0.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	KN03	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
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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

$$K(\text{Sr}+2\text{HL})=6.2$$

Medium: MeOH

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-----
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
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++      gl  oth/un 25°C ->0 U           K1=0.58       1958LUa (55262) 383
*****
C7H7NO2      H2L   Salicylaldehyde CAS 94-67-7 (1486)
2-Hydroxybenzaldehyde oxime; HO.C6H4.CH:N.OH
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++      gl  oth/un 25°C ->0 U           K(Sr+2HL)=3.77
*****
C7H7NO2      HL               CAS 3222-47-7 (3154)
6-Methylpyridine-2-carboxylic acid; CH3.C5H3N.COOH
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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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
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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-----
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
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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-----
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);
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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-----
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; (H₂COO)₂CH.NH.CH(COOH)CH₂.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Sr++	gl	KNO ₃	25°C	0.10M	U			K ₁ =3.26	1988KMa (56474)	389

C7H11NO5			H2L					(3164)		
1-Amino-2-propanone-N,N-diethanoic acid; CH ₃ .CO.CH ₂ .N(CH ₂ .COOH) ₂										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Sr++	gl	KNO ₃	25°C	0.10M	U			K ₁ =3.6	1963ANa (56831)	390

C7H11NO6			H3L					(2926)		
2-Aminobutanoic-N-propane-1,3-dioic acid; H ₂ COO.CH(C ₂ H ₅).NH.CH(COOH) ₂										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Sr++	gl	KNO ₃	25°C	0.10M	U			K ₁ =2.14	1982KKa (56852)	391

C7H11NO6			H3L					CAS 40199-58-4 (3165)		
N-(2'-Carboxyethyl)iminodiethanoic acid; H ₂ COO.CH ₂ .CH ₂ .N(CH ₂ .COOH) ₂										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Sr++	EMF	KCl	20°C	0.10M	U			K ₁ =3.87	1949SAa (56884)	392
Method: H electrode										

C7H11NO6			H3L	MNTA				(1026)		
Nitrilo(2-propanoic)-diethanoic acid; H ₂ COO.CH(CH ₃).N(CH ₂ .COOH) ₂										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Sr++	gl	KNO ₃	20°C	0.10M	U			K ₁ =5.13	1974RMf (56917)	393

Sr++	gl	KCl	20°C	0.10M	U			K ₁ =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			K ₁ =5.54 K(Sr+HL)=4.55	1969DMd (56944)	395

C7H12N2O5			H2L	Gly-Glu				CAS 7412-78-4 (280)		
Glycyl-glutamic acid; H ₂ N.CH ₂ .CO.NH.CH(CH ₂ .CH ₂ .COOH).COOH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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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, CH3.0.CH2.CO.CH2.CO.CH2.0.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; CH3.0.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'-tetramethylphosphonic acid;
HO.CH(CH2.N(CH2.PO3H2)2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	ISE	KN03	25°C	0.1M	U		K1=6.77 B(SrHL)=16.86 B(SrH3L)=34.23 B(SrH2L)=26.40 B(SrH4L)=40.61	1985Snd (58387)	403

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	NaCl04	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
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Sr++	gl	NaClO4	22°C	0.10M	U			K1=4.32	1964BBa (59353)	413
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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
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Sr++	gl	alc/w	25°C	100%	M				1988JTa (59752)	414
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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
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Sr++	gl	mixed	24°C	50%	U			K1=2.45 B2=4.65	1993ZMa (60107)	415
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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
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Sr++	cal	KN03	25°C	0.1M	C	H			1981CSb (60654)	416
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DH(K1)=-8.4 kJ mol⁻¹, DS=96 K J mol⁻¹

Sr++	gl	KN03	25°C	0.10M	U	T		K1=6.82	1977SVa (60655)	417
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Sr++	cal	R4N.X	20°C	0.1M	C				1976ANb (60656)	418
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DH1= -12.1 kJ/mol

in Me4NCl

Sr++	gl	R4N.X	25°C	0.10M	C			K1=7.02	1975JTa (60657)	419
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Sr++	gl	KN03	20°C	0.10M	U			K1=6.93 B2=11.03	1963IFb (60658)	420
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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
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Sr++	gl	KCl	25°C	0.10M	U	T H			1986CVb (61086)	421
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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;HOOCCCH(N(CH2COOH)2)CH2COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KN03	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	KN03	25°C	0.1M	C		K1=3.36	1999VZb (61216)	424

Sr++	gl	KN03	25°C	0.1M	U		K1=3.37	1978MNa (61217)	425
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C8H12N2O8 H4L CAS 35039-85-1 (4537)
1,2-Diaminoethane-N,N'-dimalonic acid; (HOOCC)2.CH.NH.CH2.CH2.NH.CH(COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KN03	20°C	0.10M	U		K1=4.19 K(Sr+HL)=1.9	1973DSc (61523)	426

Sr++	gl	KN03	25°C	0.10M	U		K1=3.45 K(Sr+HL)=1.80 K(Sr+SrL)=2.12	1972GBd (61524)	427
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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	NaN03	25°C	0.10M	M		K1=1.37	1992SCa (61655)	428

C8H13NO6 H3L (3835)

2-Amino-2-carboxypropane-N,N-diethanoic acid; HOCC(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 K(Sr+HL)=0.0	1999BSa (61877)	433

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

Sr++	EMF	KCl	20°C	0.10M	U		K1=2.2	1963IPb (61949)	435
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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

C9H7N04S H2L Sulfoxine CAS 84-88-8 (448)

8-Hydroxyquinoline-5-sulfonic acid;

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

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 K(SrL+A)=3.21 K(SrL+en)=5.65 K(SrL+pro)=2.75 K(SrL+B)=2.90	1995RRd (65151)	464

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.

Sr++	gl	alc/w	30°C	40%	M	M	K(Sr(phen)+L)=2.60 K(SrA+L)=1.41	1995RRd (65152)	465
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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 K(SrL+A)=3.13 K(SrL+en)=5.50 K(SrL+pro)=2.62	1995RRd (65218)	466

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
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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)
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4-(N',N'-Dimethylamino)pyridine-2,6-dicarboxylic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values		Reference	ExptNo
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Sr++	gl	NaClO4	22°C	0.10M	U			K1=4.28		1964BBa (65267) 468
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C9H10N2O5	H3L		(4645)
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4,5,6,7-Tetrahydroindazol-3-one-5,5-dicarboxylic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values		Reference	ExptNo
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Sr++	gl	diox/w	25°C	50%	U					1969ZSa (65279) 469
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K(Sr+H2L)=2.30

K(Sr+HL)=4.49

C9H10O8	H4L	CAS 3724-52-5	(1264)
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cis-1,2,3,4-Cyclopentanetetra-carboxylic acid; C5H6.(COOH)4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values		Reference	ExptNo
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Sr++	gl	NaClO4	25°C	0.19M	U			K1=5.90	B2= 8.75	1986MSc (65650) 470
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C9H11NO	HL	CAS 10229-63-7	(3872)
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N-(Salicylidene)aminoethane; HO.C6H4.CH:N.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values		Reference	ExptNo
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Sr++	sp	non-aq	25°C	100%	C			K1=1.98		2002CCc (65670) 471
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Medium: acetonitrile.

C9H11NO5	H2L	CAS 57362-11-5	(3876)
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N-(2'-Furfuryl)iminodiethanoic acid; C4H3O.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values		Reference	ExptNo
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Sr++	gl	KNO3	20°C	0.10M	U			K1=2.79		1963IFa (66451) 472
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C9H11N3O7	H3L		(3877)
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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
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Sr++	gl	KNO3	25°C	0.10M	U			K1=3.00 K(Sr+HL)=1.95	1975KGa (67138)	481
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C9H14N2O12P2 H4L UDP CAS 58-98-0 (3288)
Uridine-5'-diphosphoric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	NaNO3	25°C	0.10M	M			K1=2.38 K(Sr+H2L)=1.2 K(SrHL+H)=5.2	1999SSa (67162)	482
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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
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Sr++	gl	R4N.X	25°C	0.10M	C	T		K1=1.77	1991SMa (67264)	483
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IUPAC evaluation

Sr++	gl	NaNO3	25°C	0.10M	C			K1=1.17	1988MSa (67265)	484
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Sr++	ix	oth/un	25°C	0.16M	U			K1=1.6	1954SCa (67266)	485
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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
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Sr++	gl	KNO3	25°C	0.10M	U			K1=3.34	1964LMa (67326)	486
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C9H14N5O3P H2L CAS 121149-93-7 (2512)
9-(4-Phosphonobutyl)adenine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	NaNO3	25°C	0.10M	M			K1=1.30 K(Sr+HL)=0.1 *K(SrHL)=-6.5	2000GKa (67359)	487
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C9H15N06 H3L (7177)
2-Aminopentanoic-N,N-diethanoic acid; C3H7C(COOH)N(CH2COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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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
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Sr++	gl	none	25°C	0.0	C				1990CDc (68529)	495
								Kso(SrH2L)=-16.5		
								K(Sr2L)=-10.8		

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
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Sr++	gl	oth/un	25°C	0.0	U			K1=1.24	1955LUa (68721)	496
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C10H7NO2 HL CAS 86-59-9 (873)
Quinoline-8-carboxylic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	oth/un	25°C	0.0	U			K1=1.18 B2=3.91	1955LUa (68772)	497
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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
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Sr++	cal	KCl	25°C	0.25M	U	H		K1=-0.1	1997MKb (69646)	498
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DH(K1)=-15 kJ mol-1; DS=-48 J K-1 mol-1

Sr++	gl	oth/un	25°C	0.20M	U	TIH		K1=-0.25	1993DGa (69647)	499
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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

Sr++	gl	KCl	25°C	0.25M	U	T H		K1=-0.16	1985CRa (69648)	500
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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
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Sr++	gl	diox/w	20°C	75%	M	T		K1=6.79 B2=12.00	1980GMd (70440)	501
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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 K(Sr+HL)=2.67	1963IFb (71047)	505

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 K(SrL+A)=3.06 K(SrL+en)=5.40 K(SrL+pro)=2.51 K(SrL+B)=2.55	1995RRe (71200)	508

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			K(Sr+HL)=1.32 *K(SrHL)=-8.61	1994SMb (71876)	516

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			K(Sr+HL)=1.32	1973SFa (72017)	518
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 1960La (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

C10H15N06 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++ 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 NaCl04 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 K(Sr+HL)=1.56 K(Sr+SrL)=1.91	1978SGc (74361)	567

 C10H16N2O9 H4L CAS 616-90-0 (2615)
 Bis-(2-aminoethylether)-N,N'di(1,3-propanedioic acid); ((HOOCC)2CH.NH.CH2.CH2)2O

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KNO3	25°C	0.10M	U		K1=4.30 K(Sr+HL)=2.33	1979KBd (74377)	568

 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		K(Sr+HL)=2.40	1999SSa (74390)	569

 C10H16N5O13P3 H4L ATP CAS 56-65-5 (403)
 Adenosine-5'-triphosphoric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	NaNO3	25°C	0.10M	C	M	K1=3.92 K(SrL+A)=3.20 B(SrLA)=7.12	2000KHa (74821)	570
H2A=salicylhydroxamic acid.									
Sr++	gl	R4N.X	25°C	0.10M	C	T	K1=3.82 K(Sr+HL)=2.08	1991SMa (74822)	571
IUPAC evaluation									
Sr++	gl	NaClO4	25°C	0.10M	U		K1=3.664 B(SrHL)=8.99 B(SrH2L2)=17.5	1986CCc (74823)	572
Sr++	gl	KN03	40°C	0.10M	U T H		K1=3.45 K(Sr+HL)=2.00	1966TMb (74824)	573
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	KN03	25°C	0.10M	U		K1=3.54 K(Sr+HL)=2.05	1962TMb (74825)	574
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	1960La (74827)	576
Sr++	gl	R4N.X	25°C	0.20M	U		K1=3.03 K(Sr+HL)=1.48	1956SAa (74828)	577
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		K(Sr+HL)=3.55 K(SrHL+H)=5.6 K(Sr+H2L)=2.65	2001SBc (74889)	578

C10H17N04 H2L CAS 2848-06-8 (3916)									
N-(Cyclohexyl)iminodiethanoic acid; C6H11.N(CH2.COOH)2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KN03	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

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 K(Sr+HL)=1.38	1959KRa (75504)	588

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
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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; (CH3.0.CH2.CH2.0.CH2.CH2.)20								
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)4.0)2P(0)OH								
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Sr++	dis	NaNO3	?	1.0M	U	B2=2.57 B6=7.03	1970SKb (76538)	603

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 *K(SrL)=-9.6	1998BRa (76809)	605

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
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Sr++	gl	NaNO3	25°C	0.50M	M		K1=-0.13	1998KSa (77670)	607
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C11H11NO6 H3L CAS 1147-65-5 (425)
 N-(2'-Carboxyphenyl)iminodiethanoic acid; H0OC.C6H4.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	EMF	KCl	20°C	0.10M	C		K1=3.91	1947SWa (77836)	608
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Method: H electrode

C11H11NO6 H3L (3357)
 N-(3-Carboxyphenyl)iminodiethanoic acid; H0OC.C6H4.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	EMF	KCl	20°C	0.10M	C		K1=1	1947SWa (77845)	609
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Method: H electrode

C11H11NO6 H3L CAS 86363-45-6 (3358)
 N-(4-Carboxyphenyl)iminodiethanoic acid; H0OC.C6H4.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	EMF	KCl	20°C	0.10M	C		K1=<1	1947SWa (77850)	610
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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
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Sr++	gl	diox/w	20°C	75%	M T		K1=7.54 B2=12.54	1980GMd (77968)	611
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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
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Sr++	gl	diox/w	20°C	75%	M T		K1=7.43 B2=12.48	1980GMd (78378)	612
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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
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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; HOO.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; ((H00C.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 K(Sr+HL)=2.58	1964LAa (79470)	625
Sr++	gl	KCl	20°C	0.10M	U		K1=5.18 K(Sr+HL)=2.39	1948SAa (79471)	626

 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 K(SrL+H)=7.16	1966TKa (79573)	627
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	1959KR a (79577)	631

$$K(\text{Sr}+\text{HL})=2.59$$

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
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Sr++	gl	KNO3	25°C	0.10M	U		K1=2.80 K(Sr+HL)=1.88	1974KGa (79604)	632
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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
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Sr++	con	none	25°C	0.0	C		K1=2.08	1991TKa (79874)	633
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Self medium (ca. 0.008M).

Sr++	dis	none	25°C	0.0	C	M		1989TKc (79875)	634
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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
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Sr++	dis	oth/un	25°C	0.03M	U		K1=2.0 B2=3.0	1969PKb (80085)	635
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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
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Sr++	cal	KCl	25°C	0.25M	U	H	K1=0.85	1997MKb (80517)	636
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DH(K1)=-12.0 kJ mol-1; DS=-24 J K-1 mol-1

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
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Sr++	gl	KNO3	25°C	0.10M	U			1967UKa (80855)	638
------	----	------	------	-------	---	--	--	-----------------	-----

K(Sr+HL)=4.31


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*****
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          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
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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-diazacyclododecane-5,12-dione-7,10-diethanoic acid;										

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)										

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										

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)										

Sr++	gl	KNO3	25°C	0.10M	U			K1=2.53	1982SGb (81900)	649

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

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										

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										

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										

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; ((HOOCH₂)₂NCH₂CH₂)₂O

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	gl	KNO ₃	25°C	0.10M	U	H		1965WHa (82563)	669
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DH(K₁)=-33.8 kJ mol⁻¹, DS=50.2 J K⁻¹ mol⁻¹

Sr++	gl	KCl	20°C	0.10M	U		K ₁ =9.34 K(Sr+HL)=4.5	1964PCa (82564)	670
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Sr++	EMF	KNO ₃	25°C	0.10M	U		K ₁ =8.6	1960HRa (82565)	671
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C12H20N2O10 H4L CAS 10258-50-1 (3993)
(2,3-Dihydroxytetramethylenedinitrilo)tetraethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	gl	KNO ₃	20°C	0.10M	U		K ₁ =3.93 K(Sr+HL)=3.18 K(SrL+Sr)=2.85	1967DSb (82592)	672
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C12H20O8N2 H4L (6908)
2-Methyl-1,2-diaminopropane-N,N,N',N'-tetraethanoic acid;
(HOOCH₂)₂NCH₂C(CH₃)₂N(CH₂COOH)₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	gl	KNO ₃	20°C	0.10M	C		K ₁ =9.52	1978NLa (82681)	673
------	----	------------------	------	-------	---	--	----------------------	-----------------	-----

C12H21NO6 H3L (7209)
1-Carboxy-1-aminoheptane-N,N-diethanoic acid; HOOCH₂CH(C₆H₁₃)N(CH₂COOH)₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	gl	KNO ₃	20°C	0.10M	U		K ₁ =4.62	1985LBc (82705)	674
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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
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Sr++	cal	none	25°C	0.0	C	H	K ₁ =2.26	1986BNb (82714)	675
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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;									
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;									
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;									
Sr++	cal	alc/w	25°C	100%	U H			1990K Mb (82948)	679
Medium: MeOH. DH=-11.9 kJ mol ⁻¹									

C12H23N3O5		H2L					(6393)		
1-Oxa-4,7,10-triazacyclododecan-4,10-diethanoic acid;									
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;									
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.									
Sr++	con	mixed	25°C	20%	C		K1=3.89	2003SIa (83625)	683
Medium: 20% w/w propylene carbonate/ethylene carbonate.									
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.									
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.									
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.									
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.									
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.									
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.									
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									
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									
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.									
Sr++	cal	non-aq	25°C	100%	C	H	K1=>5	1992BSc (83635)	693
Medium: propylene carbonate. DH(K1)=-59.1 kJ mol-1.									
Sr++	cal	oth/un	25°C	0.05M	M		K1=6.84	1992BUb (83636)	694
Sr++	con	non-aq	25°C	100%	C		K1=3.76	1992STa (83637)	695
Medium: propylene carbonate.									
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-diyl dimethylenediphosphonic 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-Benzylnitritotriethanoic 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)iminodietanoic 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 K(Sr+HL)=1.46	1971KTl (85981)	731

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
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Sr++	gl	KCl	20°C	0.10M	U		K1=9.06 K(Sr+HL)=4.16	1959KRa (86116)	734
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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		B(SrLH)=19.39 B(SrH2L)=28.72 B(SrH3L)=37.33 B(Sr2L)=12.95	1990DSa (86586)	744

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 B(SrHL)=9.04	1990MDa (87750)	747

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	KCl	30°C	0.10M	U		K1=6.2 K(Sr+HL)=3.0 K(Sr+H2L)=1.3	1963GHa (87969)	749

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
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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
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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	KN03	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	KN03	20°C	0.10M	U	T H		1963ANb (88780)	757
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DH(K1)=-3.1 kJ mol⁻¹, DS=191 J K⁻¹ mol⁻¹

Sr++	cal	KN03	20°C	0.10M	U	H	K1=10.54	1963ANf (88781)	758
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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 1960WAa (89393) 766
K(SrL+H)=5.4

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 1960SAC (89496) 768
K(Sr+HL)=1.74

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; ((HOOCH₂)₂NCH₂CH₂CH₂)₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	KNO ₃	25°C	0.10M	U			K ₁ =3.57 K(Sr+HL)=2.40 B(Sr ₂ L)=1.91	1969GKb (89606)	770
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C₁₄H₂₄N₂O₈ H₄L CAS 1633-00-7 (5076)
4-Methyl-1,2-diaminopentane-N,N,N',N'-tetraethanoic acid;
(HOOCH₂)₂NCH₂CH(NCH₂COOH)₂CH₂CH(CH₃)₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	KNO ₃	20°C	0.10M	U			K ₁ =9.84	1969NDa (89642)	771
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C₁₄H₂₄N₂O₉ H₄L CAS 87720-52-3 (1593)
2,2'-Oxybis(propyliminodiethanoic acid)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	KCl	20°C	0.10M	U			K ₁ =4.15 K(Sr+HL)=3.06	1961ISa (89712)	772
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Sr++	gl	KCl	20°C	0.10M	U			K ₁ =7.17 K(Sr+HL)=3.57	1961KGa (89713)	773
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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
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Sr++	gl	KCl	20°C	0.10M	U			K ₁ =4.15 K(Sr+HL)=3.06	1961ISa (89737)	774
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C₁₄H₂₄N₂O₁₀ EGTA CAS 67-42-5 (349)
Ethyleneglycol-0,0'-bis(2-aminoethyl ether)-N,N,N',N'-tetraethanoic acid; H₄L

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	KCl	20°C	0.10M	C			K ₁ =8.5 K(Sr+HL)=4.37	1985SMg (89937)	775
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Sr++	gl	KNO ₃	25°C	0.10M	U			K ₁ =8.13 K(SrL+H)=6.8 K(SrL+2H)=5.4	1982JGa (89938)	776
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Sr++	gl	NaCl	25°C	0.70M	U			K ₁ =8.10	1974JAb (89939)	777
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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.

Sr++	gl	R4N.X	25°C	0.05M	C	H	K1=3.1	1996BCh (90443)	791
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Medium: 0.05 M Et4NClO4. By calorimetry: K1=2.6, DH(K1)=-10.4 kJ mol⁻¹.

Sr++	sp	non-aq	25°C	100%	U	T H	K1=2.78	1994GSb (90444)	792
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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

Sr++	sp	non-aq	20°C	100%	U		K1=2.7	1992PSa (90445)	793
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Medium: DMF, 0.01 M Me4NI

Sr++	cal	alc/w	25°C	100%	U	H	K1=2.50	1986BUa (90446)	794
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Medium: MeOH. DH(K1)=-0.2 kJ mol⁻¹; DS=47

Sr++	gl	R4N.X	25°C	0.05M	C	I	K1=<2.0	1975LSc (90447)	795
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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-Heptaohaheneicosane; CH3.0.(CH2.CH2.0)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-diylldimethylenediphosphonic 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 K(Sr+HL)=4.62 K(Sr+H2L)=2.34	1996BJa (90773)	807

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		B(SrHL)=18.61 B(SrH2L)=29.64 B(SrH3L)=37.86 B(SrH4L)=45.10	1990DSa (90878)	809

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		K(Sr+HL)=4.15 K(Sr+H2L)=2.18	1964STa (91726)	812

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.C6H4.0(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
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Sr++	gl	mixed	25°C	75%	U		K1=5.72	1972MCb (92717)	819
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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
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Sr++	gl	mixed	25°C	75%	U		K1=6.30	1972MCb (92732)	820
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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
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Sr++	gl	mixed	25°C	75%	U		K1=6.24	1972MCb (92747)	821
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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
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Sr++	gl	diox/w	30°C	75%	U		K1=6.50	1957SFb (92764)	822
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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
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Sr++	gl	mixed	25°C	75%	U		K1=2.75	1972MCb (92801)	823
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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
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Sr++	gl	mixed	25°C	75%	U		K1=3.54	1972MCb (92816)	824
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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									

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					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 KN03 25°C 0.10M U 1968NMb (93068) 832
K(Sr+HL)=1.78

2-(2'-Hydroxyphenylazo)chromotropic acid;

Sr++ gl KNO3 25°C 0.10M U 1968NMb (93076) 833

2-(2'-Sulphophenylazo)chromotropic acid;

Sr++ gl KNO3 25°C 0.10M U 1968NMb (93083) 834

1-((2-Arsonophenyl)azo)-2-hydroxy-3,6-naphthalylidysulfonic acid;

Sr++ g1 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

2-(2-Arsonophenylazo)-1-hydroxynaphthalene-3,6-disulfonic acid;

Sr++ g1 KNO3 25°C 0.10M U K1=2.0 1971KTc (93226) 837

1-(2-Phosphonophenylazo)-2-hydroxynaphthalene-3,6-disulfonic acid;

Sr++ g1 KNO3 25°C 0.10M U K1=3.06 1971KMa (93230) 838

$$K(\text{SrL}+\text{H})=11.01$$

2-(2'-Arsonophenylazo)chromotropic acid;

Sr++ g1 KNO3 25°C 0.10M U K1=4.39 1971KTc (93266) 839

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/H2O, 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	1993BDa (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 B(SrHL)=9.1	1991FGb (94502)	854

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
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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-diazacyclopentadecane;

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
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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
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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
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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
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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;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++ gl KN03 25°C 0.10M U K(Sr+HL)=2.40 1971Kmb (95945) 899

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

Method: Pt/H₂ electrode.

1,4,7,10-Tetraazacyclododecane-1-propyl-4,7,10-triethanoic acid;

10-Hydroxypropyl-1,4,7,10-tetraazacyclododecane-1,4,7-triethanoic acid;

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

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 2004KVc (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 K(Sr+HL)=2.88 1971KMb (96869) 912

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 K(Sr+HL)=2.35 1971KMb (96935) 913

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 K(Sr+HL)=2.75 1971KMb (96940) 914

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 K(Sr+HL)=3.40 1971KMb (96946) 915

C18H14N2O11S2 H5L (4133)

2-(2'-(Carboxymethoxy)phenylazo)chromotropic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	KNO3	25°C	0.10M	U				1971KMb (96953)	916
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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
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Sr++	gl	diox/w	30°C	75%	U			K1=4.8	1962SCc (97213)	917
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C18H18O8 H2L (5631)

1,4-bis(2-Carboxymethoxyphenyl)-1,4-dioxabutane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	alc/w	25°C	90%	M			K1=5.27	1998KLa (97305)	918
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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
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Sr++	gl	KNO3	25°C	0.10M	U			K1=9.56	1970YKa (97527)	919
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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
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Sr++	gl	diox/w	24°C	50%	U			K1=4.7	1979ACa (97562)	920
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C18H26N6 L (6628)

3,6,14,17,23,24-Hexaazatricyclo[17.3.1.1]tetracos-1(23),8,10,12(24),19,21-hexaene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	KCl	25°C	0.10M	M			K1=2.8	1996MBb (97724)	921
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C18H26O4S8 e L CAS 334475-11-5 (5980)

3,6-Bis(methylsulfonyl)-2,7-(4,7,10,13-tetraoxa-1,16-dithiahexadecane-1,16-diyl)tetrathiafulvalen

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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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]tricos-12,14,16(23)triene
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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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
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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
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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)20 CAS 73199-63-0 (2251)
 1,11-Dioxacycloeicosane-5,7,15,17-tetraone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++ gl diox/w 24°C 50% U K1=5.6 1979ACa (97832) 926

C18H28O10 H2L (OE0AcAcOE)2 CAS 62950-36-1 (2254)
 1,4,10,13,16,22-Hexaoxacyclotetracos-6,8,18,20-tetraone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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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
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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;((HOOCH2)2NCH2CH2N(CH2COOH)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-heptaioxabicyclo[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.

C18H33N09 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 D03A-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
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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 B(Sr2L2) >5 1986BUa (98741) 956
 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
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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
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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-diylldimethylenediphosphonic 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
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Medium: 20% w/w propylene carbonate/ethylene carbonate.

Sr++	oth	alc/w	35°C	3.0%	C		K1=1.22	1999MTd (100241)	977
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Method: capillary zone electrophoresis. Medium: 3% v/v EtOH/H2O, 0.005 M acetate buffer, pH 5.5.

Sr++	vlt	non-aq	25°C	100%	C		K1=3.80	1991SSb (100242)	978
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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
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Medium: 95% MeOH/H2O, 0.05 M LiClO4

Sr++	sol	none	25°C	0.0	U	I	K1=1.0	1975SNa (100244)	980
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C20H31N2O4F L CAS 173417-87-3 (6461)

26-Fluoro-4,7,13,16-tetraoxa-1,10-diazatricyclo[8.8.7.1,20,24]hexacos-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;									
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;									
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;									
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;									
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

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-tetraethanoic 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	KN03	25°C	0.20M	U			B(SrH8L2)=95.6	1967BMc (101582)	1006

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	Keff(Sr+L)=-3.19	19950Ca (101827)	1007
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
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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 19670Tb (101860)1011

C22H26N4O10 H4L BAPTA (7230)
1,2-Bis(o-aminophenoxy)ethane-N,N,N',N'-tetraethanoic acid;
(HOOCCCH2)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-diazabicyclo[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

C22H40N5PS 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	NaN03	25°C	0.10M	C		K1=4.10	1991DHa (102404)	1018

C22H44N207		L				Cryptand 3,2,2H	(6607)		
1,10-Diaza-4,7,14,17,20,26,29-Heptaoxabicyclo[13.8.8]hentriacontane;									
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									

C22H44N208		L				Cryptand 3,3,2	CAS 132162-57-3	(1762)	
Cryptand 3,3,2									
Sr++	gl	R4N.X	25°C	0.05M	C		K1=2.0	1975LSc (102432)	1020

C22H44N605S2		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-dithione;									
Sr++	gl	alc/w	25°C	95%	C		K1=2.89	2004KVa (102442)	1021
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.									

C22H46N204		L					CAS 69703-24-8	(2449)	
N,N'-Bis(2-dimethylpropane)-cyclo-1,10-diaza-4,7,13,16-tetraoxaoctadecane)									
Sr++	gl	alc/w	25°C	93%	U		K1=2.5	1978WVa (102453)	1022
Medium: 93% MeOH/H2O									

C22H48N602		L					CAS 39678-22-3	(1542)	
4,7,13,16-Tetramethyl-1,4,7,10,13,16-hexaaza-21,24-dioxabicyclohexacosane;									
Sr++	gl	R4N.X	25°C	0.10M	U		K1=1.5	1978LMa (102492)	1023

C23H23N05		L					CAS 218619-58-0	(7808)	
Dibenzo-pyridino-18-crown-6;									
Sr++	EMF	alc/w	25°C	100%	C		K1=2.36	2004ZTa (102666)	1024

Medium: 100% methanol, 0.05 M Bu4NC104. 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
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Sr++	gl	KCl	20°C	0.10M	U			K1=2.8	1984VSc (102980)	1031
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C24H28N2O8 H4L CAS 89561-10-4 (8634)

N,N'-[1,2-Ethanediy]bis(2,1-phenylenemethylene)]bis[N-(carboxymethyl)]glycine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	KCl	20°C	0.10M	U			K1=3.1	1984VSc (103008)	1032
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C24H32O8 L DiBz-24-Crown-8 CAS 14174-09-5 (580)

2,3:14,15-Dibenzo-1,4,7,10,13,16,19,22-octaoxacyclotetracos-2,14-diene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	con	mixed	25°C	20%	C			K1=4.07	2003SIa (103179)	1033
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Medium: 20% w/w propylene carbonate/ethylene carbonate.

C24H36N4O4 L Py-2-18-aneN204 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
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Sr++	gl	KNO3	25°C	0.10M	C			K1=4.87	1986DSa (103267)	1034
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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
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Sr++	gl	R4N.X	25°C	0.10M	M			K1=5.1	1991FGb (103310)	1035
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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
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Sr++	gl	NaNO3	25°C	0.20M	C				1991KKa (103386)	1036
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K(Sr+H2L)=5.85

Sr++	EMF	KCl	20°C	0.10M	C			K1=6.5	1981SFa (103387)	1037
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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
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Sr++	con	mixed	25°C	20%	C			K1=3.87	2003SIa (103440)	1038
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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
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Sr++	gl	NaNO3	25°C	0.10M	C			K1=4.13	1991DCa (103456)	1039
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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
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Sr++	gl	R4N.X	25°C	0.05M	C			K1=<2	1975LSc (103468)	1040
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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
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Sr++	gl	R4N.X	25°C	0.10M	U			K1=6.7	1981GLa (103493)	1041
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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-dithione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	gl	alc/w	25°C	95%	C			K1=4.09	2004KV a (103509)	1042
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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
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Sr++	gl	NaNO3	25°C	0.10M	C			K1=3.28	1989HBa (103556)	1043
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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
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Sr++ sp alc/w 25°C 15% U 1975SZa (103609)1044
K(Sr+2H2L+20H=SrH2L2+H2O)=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.

C26H25N09S H4L Semi-Xylenol O (426)
3-(N,N-Di(carboxymethyl)aminomethyl)-2-cresolsulfonephthalein;

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

Sr++ sp KNO3 25°C 0.10M U K1=5.30 1974Y0a (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 K(SrL+Sr)=2.07	2003GHb (104039)	1051

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 K(SrL+Sr)=2.09	2003GHa (104045)	1052

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 K(SrL+Sr)=4.14	2003GHa (104078)	1053

Method: fluorescence spectroscopy. Medium: acetonitrile, 0.05 M Et4NClO4.

C26H34N6O8 H4L CAS 132709-65-0 (8941)

3,6,14,17,23,24-Hexaazatricyclotetracos-1,8,10,12,19,21-hexaene-3,6,14,17-tetraacetic 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; (HOOCCCH(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-diene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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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-Hepta-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 2004KV a (104353)1064
Medium: 95% MeOH/H2O, 0.01 M Et4NClO4.

C27H32N5S+ 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 2002GV c (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 1998AB c (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 2003GH b (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 1998KL a (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)									
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;									
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;									
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;									
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;									
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]dotetratricontane-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

C30H30N2O010 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
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Sr++	gl	alc/w	25°C	93%	U			K1=2.55	1978WVa (105312)	1082
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Medium: 93% MeOH/H2O

C30H49N3O8 H4L (5361)
Dodecylbenzenediethylenetriaminetetraethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Sr++	EMF	KNO3	20°C	0.10M	U				1968CHa (105349)	1083
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K(Sr+2H3L)=15.66
K(2Sr+2H2L)=14.40
K(3Sr+2HL)=13.93

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
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Sr++	gl	alc/w	25°C	90%	U			K1=4.1 B2=8.5	1984FWa (105383)	1084
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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
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Sr++	cal	alc/w	25°C	100%	U	H		K1=5.44	1986BUa (105388)	1085
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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
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Sr++	gl	KNO3	25°C	0.10M	C	M		K1=7.46	1998GBa (105494)	1086
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K(SrL+H)=10.11
K(SrL+Sr)=4.42
K(Sr2L+H)=8.40

Sr++	sp	KNO3	25°C	0.10M	U			K1=7.71	1974Y0a (105495)	1087
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K(Sr+HL)=5.44
K(Sr+H2L)=2.24
K(Sr+SrL)=4.89
K(Sr+SrHL)=2.1

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
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Sr++	gl	alc/w	25°C	93%	U		K1=2.55	1978WVa (105554)	1088
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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
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Sr++	gl	KCl	25°C	0.10M	U		K1=3.0	1982LVa (105589)	1089
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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
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Sr++	gl	KCl	25°C	0.10M	U		K1=3.3	1982LVa (105594)	1090
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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
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Sr++	gl	oth/un	25°C	0.10M	U		K1=7.75	1981GMd (105613)	1091
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B(SrHL)=17.99

B(Sr2L)=11.83

C32H37N09S H4L SemiMeThymolBlu (427)

3-(N,N-Di(carboxymethyl)-aminomethyl)thymolsulfonephthalein;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	sp	KNO3	25°C	0.10M	U		K1=5.34	1974Y0a (105665)	1092
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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
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Sr++	cal	non-aq	25°C	100%	C	H		1995ZBa (105681)	1093
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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
ariat ligands with substituted oxine side chains

C32H46N2O8Cl2 L CAS 181706-75-2 (8626)
3,18-Dichlorododecahydro-5H,16H-6,15-(ethanoxyethanoxyethano)dibenzohehexaoxadiazacyc
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]tetratetraconta 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-nitrilodibenzotetraoxadiazacyclopentacosine;									

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-3,5,7,8,10,12,16,18,20,21,

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]tetratetracontadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	sp	non-aq	25°C	100%	U		K1=4.2 B(Sr2L)=7.86	1996AAd (106318)	1113

Medium: CH3CN

C36H44O7P2 L (5725)
1,17-Di(diphenylphosphinyl))-3,6,9,12,15-pentaoxaseptadecane;
Ph2PO.C2H4(0.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
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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	KN03	25°C	0.10M	U		K1=7.05 B(SrHL)=18.13 B(SrH2L)=26.04 K(Sr+SrL=Sr2L)=4.58 K(Sr+SrHL=Sr2HL)=1.9	1974Y0a (106619)	1118

C40H36O4P2 HL CAS 126763-08-4 (7791)

1,2-Bis[2-(diphenylphosphinylmethyl)phenoxy]-ethane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	EMF	non-aq	25°C	100%	C		K1=8.64	1997PKc (106731)	1119
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Medium: nitrobenzene

C40H36O5P2 L CAS 86341-96-0 (5724)
1,7-Di(2-diphenylphosphinyl)phenyl-1,4,7-trioxahseptane;Ph2PO.C6H4.O.C2H4.O.C2H4.O.C6H4.POPh2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	EMF	non-aq	25°C	100%	C		K1=10.54	1997PKc (106749)	1120
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Medium: nitrobenzene

Sr++	EMF	non-aq	25°C	100%	C		K1=10.80 B2=15.17	1997PKc (106750)	1121
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Medium: nitrobenzene

C40H50N2O010 L CAS 143902-45-8 (8935)
Decamethylcucurbit[5]uril;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Sr++	cal	mixed	25°C	50%	C	IH	K1=3.40	2000ZKb (106813)	1122
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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
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Sr++	EMF	non-aq	25°C	100%	C		K1=8.00	1997PKc (106932)	1123
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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
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Sr++	sp	R4N.X	25°C	0.10M	C			2004C0a (106962)	1124
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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
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 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-0(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-spirobenzopyran)]

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]arene dicarboxylic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Sr++	gl	alc/w	25°C	100%	C		K1=8.3 B(Sr2L)=11.2	1993ABb (107407)	1134

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
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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]ar
ene;

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)ca
lix[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 20030Aa (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]arene

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
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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-butylcalix[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-butylldihomooxacalix[4]arene tetraphenylketone;

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 K(Sr+HL)=4.37 K(Sr+H2L)=3.57	2003WWa (107974)	1155

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 K(Sr+HL)=4.45 K(Sr+H2L)=4.06	2003WWa (108001)	1157

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
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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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