SC-Database
Software version = 5.81 Data version = 4.62
Experiment list contains 3143 experiments for
 (no ligands specified)
 2 metals : Ag+, Ag++
 (no references specified)
 (no experimental details specified)

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e- HL Electron (442)

Electron;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	C		1995LSb (45)		1
							K(AgC+e=Ag(s)+C)=-2.99(-177mV)		
Medium:acetonitrile, 0.05 M Et4NClO4. Value is relative to the SCE(aq). C is cryptand 2,2,2. Data for many non-aqueous solvents.									
Ag+	EMF	oth/un	-5°C	6.50M	C		1981BMa (46)		2
							K(e + Ag++=Ag+)=37.17		
							E=1.978 V		
Medium: 6.5 M HClO4									
Ag+	EMF	none	25°C	0.0	C T		1980JPa (47)		3
							K=1.2094 (71.5 mV)		
K: AgBr(s)+e=Ag(s)+Br-. Data for 15-55 C.									
Ag+	sol	none	25°C	0.0	C T		1976DMb (48)		4
Data for 15-35 C. K(AgSCN+e=Ag+SCN)=1.487 (88.0 mV). At 20 C, E=92.8 mV; at 15 C, E=102.1 mV. K derived from Kso(AgSCN).									
Ag+	sol	none	25°C	0.0	C		1976DRa (49)		5
							K(AgBz+e=Ag+Bz)=9.391(556.5mV)		
Bz is benzoate ion.									
Ag+	sol	none	25°C	0.0	C T		1975DMa (50)		6
Data for 15-35 C. K(AgMnO4+e=Ag+MnO4)=3.632 (214.9 mV). At 20 C, E=224.9 mV; at 15 C, E=235.6 mV. K derived from Kso(AgMnO4).									
Ag+	EMF	alc/w	25°C	10%	U I		1974CKa (51)		7
							K=3.641(215.4mV)		
Medium: 10% w/w MeOH/H2O, 1 M KCl; K: AgCl(s) + e=Ag(s)+Cl-. K=3.426(202.7mV,w=30), 3.332(197.1mV,w=40), 3.279(194.0mV,w=45)									
Ag+	EMF	none	35°C	0.00	U T		1974DSb (52)		8
							K=-0.487(-29.75mV)		
K: AgSeCN(s)+e=Ag(s)+SeCN-. K=-0.486(-30.22mV,40 C), -0.492(-31.05mV,45 C), -0.491(-31.51mV,50 C)									

Ag+ EMF non-aq 25°C 100% U I 1974KJb (53) 9
K=-0.07(-4.4mV)
In 10% w/w propylene glycol-MeOH. K: AgCl(s)+e=Ag(s)+Cl-. K=-0.17(-10.3mV, w=0),-0.08(-4.8mV,w=20),-0.17(-10.0mV,w=50)

Ag+ EMF non-aq 25°C 100% U I 1974KJb (54) 10
K=-0.27(-16.0mV)
In 70% w/w propylene glycol-MeOH; K: AgCl(s)+e=Ag(s)+Cl-. K=-0.44(-26.0mV, w=90), -0.55(-32.3mV,w=100)

Ag+ EMF mixed 5°C 20% U I 1974KRc (55) 11
K=3.92(216.6mV)
Medium: 20% w/w diethylene glycol/H2O. K: AgCl(s) + e=Ag(s)+Cl-. K=3.76(207.3mV,w=40), 3.45(190.3mV,w=60), 2.85(157.2mV,w=80)

Ag+ EMF mixed 45°C 20% U I 1974KRc (56) 12
K=3.00(189.4mV)
In 20% w/w diethylene glycol/H2O. K: AgCl(s) + e=Ag(s)+Cl-. K=2.82(177.8mV, w=40), 2.35(148.4mV,w=60), 1.67(105.4mV,w=80) (also 15, 25 & 35 C)

Ag+ EMF none 25°C 0.00 U T 1974LLc (57) 13
K=1.017(60.14mV)
In D2O; K: AgBr(s)+e=Ag(s)+Br-. K=1.086(63.14mV,20 C), 0.949(57.06mV,30 C), 0.882(53.9mV,35 C), 0.815(50.67mV,40 C)

Ag+ EMF none 45°C 0.00 U T 1974LLc (58) 14
K=0.750(47.35mV)
In D2O; K: AgBr(s)+e=Ag(s)+Br-. K=0.685(43.95mV,50 C), 0.622(40.48mV,55 C), 0.559(36.93mV,60 C), 0.497(33.33mV,65 C)

Ag+ EMF none 70°C 0.00 U T 1974LLc (59) 15
K=0.435(29.59mV)
Medium: D2O; K: AgBr(s)+e=Ag(s)+Br-. K=0.373(25.79mV,75 C)

Ag+ EMF non-aq 25°C 100% U T 1974NWa (60) 16
K=ca.10.5(ca.622mV)
Medium: NH3(liquid); K: AgCl(s) + e=Ag(s)+Cl-. K=14.72(681mV,-40 C)

Ag+ EMF non-aq 25°C 100% U I 1973BSb (61) 17
K=-0.194(-11.48mV)
In 5 % w/w acetonitrile/MeOH; K: AgCl(s)+e=Ag(s)+Cl-. K=-0.205(-12.12mV,w=0) -0.227(-13.41mV,w=10), -0.325(-19.22mV,w=20)

Ag+ EMF non-aq 25°C 100% U 1973BSb (62) 18
K=-0.764(-45.17mV)
In 40% w/w acetonitrile/MeOH; K: AgCl(s)+e=Ag(s)+Cl-

Ag+ EMF non-aq 25°C 100% U I 1973KDa (63) 19
K=-0.53(-31.2mV)
In 50% w/w ethylene glycol/MeCN; K: AgCl(s)+e=Ag(s)+Cl-. Data also for 50%

w/w ethylene glycol-Me2NCHO: K=-1.59(-94.2mV)

Ag+ EMF mixed 25°C 11% U I 1973KMb (64) 20

K=4.39(259.9mV)

In 11.5% w/w CO(NH2)2/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=4.68(276.8mV,w=20.3), 4.93(291.6mV,w=29.6)

Ag+ EMF mixed 25°C 37% U 1973KMb (65) 21

K=5.07(299.7mV)

In 36.8% w/w CO(NH2)2/H2O; K: AgCl(s) + e=Ag(s)+Cl-. Also 10, 15, 20, 30, 35 and 40 C

Ag+ ISE non-aq 25°C 100% U 1973NDb (66) 22

K=4.331(256.2mV)

Medium: formamide; K: AgIO3(s)+e=Ag(s)+IO3-

Ag+ EMF alc/w 25°C 50% U T 1973RRa (67) 23

K=0.901(53.33mV)

Medium: 50% w/w MeOH/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=1.180(65.15mV,5 C), 1.112(62.47mV,10 C), 1.043(59.61mV,15 C)

Ag+ EMF alc/w 20°C 50% U T 1973RRa (68) 24

K=0.973(56.60mV)

Medium: 50% w/w MeOH/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=0.830(49.92mV,30 C), 0.757(46.28mV,35 C), 0.684(42.52mV,40 C)

Ag+ EMF alc/w 45°C 50% U T 1973RRa (69) 25

K=0.610(38.51mV)

Medium: 50% w/w MeOH/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=0.535(34.30mV,50 C), 0.458(29.85mV,55 C), 0.383(25.35mV,60 C)

Ag+ EMF alc/w 25°C 30% U I 1972BLb (70) 26

K=1.02(60.4mV)

Medium: 30% w/w EtOH/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=0.85(50.0mV,w=50), 0.49(29.0mV,w=72), -3.36(-198.5mV,w=100)

Ag+ EMF mixed 25°C 20% U I 1972BLb (71) 27

K=1.15(68.3mV)

Medium: 20% w/w acetone/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=0.96(56.5mV,w=40), 0.46(27.1mV,w=60), -0.76(-44.8mV,w=80), -6.51(-385mV,w=100)

Ag+ EMF diox/w 25°C 70% U I 1972BLb (72) 28

K=0.92(54.4mV)

Medium: 70% w/w dioxan/H2O; K: AgBr(s)+e=Ag(s)+Br-

Ag+ EMF alc/w 25°C 30% U I 1972BLb (73) 29

K=-2.54(-150.3mV)

Medium: 30% w/w EtOH/H2O; K: AgI(s)+e=Ag(s)+I-. K=-2.51(-148.6mV,w=50), -2.80(-165.9mV,w=72), -6.47(-382.6mV,w=100)

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Ag+        EMF mixed  25°C  20%  U  I                    1972BLb    (74)  30
                                        K=-2.38(-140.7mV)
Medium: 20% w/w acetone/H2O; K=AgI(s)+e=Ag(s)+I-. K=-2.27(-134.0mV,w=40),
-2.43(-143.9mV,w=60), -3.15(-186.2mV,w=80), -6.51(-385mV,w=100)
-------------------------------------------------------------------------------
Ag+        EMF diox/w 25°C  70%  U                      1972BLb    (75)  31
                                        K=-3.79(-224.3mV)
Medium: 70% w/w dioxan/H2O; K: AgI(s)+e=Ag(s)+I-
-------------------------------------------------------------------------------
Ag+        oth oth/un 25°C  0.0  U  I                    1972COa    (76)  32
                                        K(Ag+e=Ag(s))=13.40(739mV)
Method:Estimated data. K=9.15(541mV in MeOH,  8.42(498mV) in EtOH,
8.42(498mV) in BuOH, 8.77(519mV) in PentOH, 7.32(433mV) in acetone
-------------------------------------------------------------------------------
Ag+        oth non-aq 25°C 100%  U  I                   1972COa    (77)  33
                                        K(Ag+e=Ag(s))=-0.02(-1mV)
Method:Estimated data. Medium: MeCN. In HCOOH, K=-1.49(-88mV).
Also in NH3, N2H4
-------------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C 3.00M U TI                   1972GIa    (78)  34
                                        K=3.15(186.3mV)
Medium:HClO4; K: AgCl(s) + e=Ag(s)+Cl-. K=2.40(158.6mV,60 C).  Data also in
3 M HCl(K=3.41(201.8mV,25 C), 2.74(180.8mV,60 C)
-------------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C 3.00M U TI                   1972GIa    (79)  35
                                        K=3.47(205.5mV)
K: AgCl(s) + e=Ag(s)+Cl-. K=2.66(175.9mV,60 C). Data also in 3 M NaCl:K=3.61
(213.4mV,25 C), 2.88(190.7mV,60 C)
-------------------------------------------------------------------------------
Ag+        EMF oth/un 25°C 3.00M U TI                   1972GIa    (80)  36
                                        K=0.48(28.6mV)
Medium: HClO4; K: AgBr(s)+e=Ag(s)+Br-. K=0.05(3.5mV,60 C). Data also in 3 M
HBr: K=0.62(36.8mV,25 C), 0.26(17.1mV,60 C))
-------------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C 3.00M U TI                   1972GIa    (81)  37
                                        K=0.86(50.8mV)
K: AgBr(s)+e=Ag(s)+Br-. K=0.37(24.2mV,60 C).  Data also in 3 M NaBr:  K=0.86
(51.1mV,25 C), 0.46(30.2mV,60 C))
-------------------------------------------------------------------------------
Ag+        EMF alc/w  25°C  10%  U T                    1972GSb    (82)  38
                                        K=3.626(214.5mV)
Medium: 10% w/w EtOH/H2O; K: AgCl(s) + e=Ag(s)+Cl-.  K=3.408(208.40mV,35 C),
3.297(204.84mV,40 C)
-------------------------------------------------------------------------------
Ag+        EMF alc/w  25°C  30%  U T                    1972GSb    (83)  39
                                        K=3.394(200.76mV)
Medium: 30% w/w EtOH/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.174(194.07mV,35 C),
3.061(190.17mV,40 C)
-------------------------------------------------------------------------------
Ag+        EMF alc/w  25°C  40%  U T                    1972GSb    (84)  40
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K=3.144(185.99mV)
Medium: 40% w/w EtOH/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=2.895(176.99mV,35 C), 2.746(170.63mV,40 C)

Ag+ EMF non-aq 25°C 10% U I 1972KDa (85) 41
K=-0.08(-4.5mV)
In 10% w/w propylene glycol/MeOH. K:AgCl(s)+e=Ag(s)+Cl-. K=-0.15(-9.0mV,w=0) -0.12(-7.0mV,w=30), -0.17(-10.0mV,w=50)

Ag+ EMF non-aq 25°C 70% U I 1972KDa (86) 42
K=-0.29(-17.0mV)
In 70% w/w propylene glycol/MeOH. K: AgCl(s)+e=Ag(s)+Cl-. K=-0.46(-27.5mV, w=90), -0.54(-32.0mV,w=100)

Ag+ EMF non-aq 25°C 100% U I 1972KDa (87) 43
K=-2.21(-131mV)
Medium: 10% w/w propylene glycol/MeOH; K: AgBr(s)+e=Ag(s)+Br-. K=-2.27(-134mV,w=0), -2.23(-132mV,w=30), -2.29(-135.5mV,w=50)

Ag+ EMF non-aq 25°C 100% U I 1972KDa (88) 44
K=-2.44(-144.5mV)
Medium: 70% w/w propylene glycol/MeOH; K: AgBr(s)+e=Ag(s)+Br-. K=-2.62(-155mV,w=90), -2.76(-163.3mV,w=100)

Ag+ EMF alc/w 25°C 10% U I 1972KHb (89) 45
K=1.13(66.7mV)
Medium: 10% w/w MeOH/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=1.05(62.1mV,w=20.2), 1.00(58.9mV,w=30), 0.98(57.8mV,w=33.4)

Ag+ EMF alc/w 25°C 43% U I 1972KHb (90) 46
K=0.92(54.6mV)
Medium: 43.1% w/w MeOH/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=0.88(51.9mV,w=50), 0.77(45.5mV,w=60), 0.63(37.2mV,w=68.3), -0.31(-18.3mV,w-90)

Ag+ EMF mixed 25°C 10% U I 1972KHc (91) 47
K=3.655(216.24mV)
In 10% w/w glycerol/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.535(209.14mV,w=20), 3.408(201.62mV,w=30), 3.268(193.34mV,w=40), 2.615(154.7mV,w=70)

Ag+ EMF mixed 25°C 10% U I 1972KHc (92) 48
K=1.12(66.2mV)
Medium: 10% w/w glycerol/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=1.01(60.0mV,w=20), 0.91(53.9 mV,w=30), 0.79(46.7mV,w=40), 0.66(38.9mV,w=50), 0.23(13.8mV,w=70)

Ag+ EMF mixed 25°C 10% U I 1972KHc (93) 49
K=-2.60(-154.1mV)
Medium: 10% w/w glycerol/H2O; K: AgI(s)+e=Ag(s)+I-. K=-2.68(-158.5mV,w=20), -2.73(-161.7mV,w=30), -2.79(-165.0mV,w=40), -2.85(-168.6mV,w=50)

Ag+ EMF none 25°C 0.00 U 1972KKa (94) 50

K=3.759(222.38mV)
K: AgCl(s) + e=Ag(s)+Cl-

Ag+ EMF non-aq 25°C 100% U T 1972RBc (95) 51
K=-1.160(-68.63mV)
In butanol; K:AgCl(s) + e=Ag(s)+Cl-. K=-0.529(-29.18mV,5 C),-0.717(-40.27mV, 10 C), -0.817(-46.72mV,15 C), -0.963(-56.02mV,20 C)

Ag+ EMF non-aq 30°C 100% U T 1972RBc (96) 52
K=-1.448(-87.09mV)
In butanol; K: AgCl(s) + e=Ag(s)+Cl-. K=-1.687(-103.12mV,35 C), -1.739 (-108.02mV,40 C), -2.005(-126.59mV,45 C)

Ag+ EMF mixed 25°C 5% U T 1972RVa (97) 53
K=3.430(202.9mV)
In 5% w/w butanol/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.928(216.8mV,5 C), 3.675 (210.1mV,15 C), 3.202(195.8mV,35 C), 2.983(188.3mV,45 C)

Ag+ EMF mixed 25°C 95% U T 1972RVb (98) 54
K=0.356(21.05mV)
Medium: 95% w/w propanol/H2O; K:AgCl(s) + e=Ag(s)+Cl-. K=0.823(45.42mV,5 C), 0.754(42.35mV,10 C), 0.588(33.63mV,15 C), 0.533(31.00mV,20 C)

Ag+ EMF mixed 45°C 95% U T 1972RVb (99) 55
K=-0.324(-20.47mV)
Medium: 95% w/w propanol/H2O; K:AgCl(s) + e=Ag(s)+Cl-. K=0.131(7.85mV,30 C), -0.052(-3.19mV,35 C), -0.323(-20.07mV,40 C)

Ag+ EMF mixed 5°C 2% U I 1972RVc (100) 56
K=4.153(229.2mV)
Medium: 2% w/w t-butanol/H2O. K:AgCl(s) + e=Ag(s)+Cl-. K=4.084(225.4mV,w=4), 4.071(224.7mV,w=8)

Ag+ EMF mixed 25°C 2% U I 1972RVc (101) 57
K=3.641(215.4mV)
Medium: 2% w/w t-butanol/H2O. K:AgCl(s) + e=Ag(s)+Cl-. K=3.597(212.8mV,w=4), 3.555(210.3mV,w=8)

Ag+ EMF mixed 45°C 2% U I 1972RVc (102) 58
K=3.154(199.1mV)
Medium: 2% w/w t-butanol/H2O. K:AgCl(s) + e=Ag(s)+Cl-. K=3.086(194.8mV,w=4), 3.080(194.4mV,w=8) also 10, 15, 20, 30 and 40 C

Ag+ EMF non-aq 25°C 100% U T 1972RVd (103) 59
K=-2.262(-133.8mV)
Medium: i-propanol; K: AgCl(s) + e=Ag(s)+Cl-. K=-2.033(-112.2mV,5 C), -2.138(-120.1mV,10 C), -2.185(-124.9mV,15 C), -2.199(-127.9mV,20 C)

Ag+ EMF non-aq 30°C 100% U T 1972RVd (104) 60
K=-2.303(-138.6mV)

Medium: i-propanol; K: AgCl(s) + e=Ag(s)+Cl-. K=-2.367(-144.7mV,35 C), -2.446(-152.0mV,40 C), -2.544(-160.6mV,45 C)

Ag+ EMF non-aq 25°C 100% U T 1972RVe (105) 61
K=0.35(20.77mV)
Medium:glycerol; K:AgCl(s) + e=Ag(s)+Cl-. K=0.74(40.65mV,5 C), 0.56(31.74mV, 10 C), 0.46(26.05mV,15 C), 0.43(25.11mV,20 C)

Ag+ EMF non-aq 30°C 100% U T 1972RVe (106) 62
K=0.23(14.07mV)
In glycerol; K: AgCl(s) + e=Ag(s)+Cl-. K=0.16(9.56mV,35 C), -0.06(-3.53mV, 40 C), -0.12(-7.76mV,45 C)

Ag+ EMF mixed 25°C 5% U T 1972RVf (107) 63
K=3.440(203.50mV)
Medium: 5% w/w 2-methyl-1-propanol/H2O K: AgCl(s) + e=Ag(s)+Cl-. K=3.810 (210.28mv, 5 C), 3.649(208.64mV,15 C), 3.187(194.88mV,35 C), 2.895(45 C)

Ag+ EMF mixed 25°C 5% U T 1972RVg (108) 64
K=3.68(217.9mV)
Medium: 5 % w/w DMSO/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=4.19(231.4mV,5 C), 3.94(225.5mV,15 C), 3.44(210.2mV,35 C), 3.23(203.6mV,45 C)

Ag+ EMF mixed 25°C 10% U T 1972RVg (109) 65
K=3.63(214.8mV)
Medium: 10% w/w DMSO/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=4.19(231.2mV,5 C), 3.87(221.0mV,15 C), 3.42(209.3mV,35 C), 3.21(202.9mV,45 C)

Ag+ EMF mixed 25°C 20% U T 1972RVg (110) 66
K=3.58(211.7mV)
Medium: 20% w/w DMSO/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=4.11(227.1mV,5 C), 3.82(218.6mV,15 C), 3.40(207.6mV,35 C), 3.15(199.0mV,45 C)

Ag+ EMF mixed 25°C 0.02M U I 1972SHa (111) 67
K=3.75(222.0mV)
In C M C6H5OHin H2O at C=0.025; K: AgCl(s)+e=Ag(s)+Cl-. K=3.76(222.2mV,C=0), 3.75(221.7mV,C=0.05), 3.74(221.4mV,C=0.075)

Ag+ EMF mixed 25°C 0.15M U 1972SHa (112) 68
K=3.77(223.1mV)
In C M C6H5OH in H2O, at C=0.15; K: AgCl(s)+e=Ag(s)+Cl-; also 30,35,40,35 C

Ag+ oth non-aq 300°C 100% U T 1971BJc (113) 69
K(Ag+e=Ag((s))=5.94(675mV)
Method:Estimated data.Temp.Range (300-400).309 C: 5.72(661mV),350 C: 5.27 (651mV),400 C: 4.69((627mV). Medium: fused (Na,K)NO3

Ag+ oth non-aq 309°C 100% U T 1971BJc (114) 70
K(Ag+e=Ag(s))=5.95(687mV)
Method:Estimated data.Medium fused NaX:5.95((687mV) X=NO3-, 3.96(456mV)

X=NO2-

Ag+ oth non-aq 400°C 100% U T 1971BJc (115) 71
K(Ag+e=Ag(s))=-0.28(-37mV)
Method:Estimated data. At 450 C: -0.47(-68mV), 550 C: -0.80(131mV).
Medium: fused (Li,K)Cl

Ag+ oth non-aq 550°C 100% U 1971BJc (116) 72
K(Ag+e=Ag(s))=3.59(586mV)
Method:Estimated data.Medium: fused (Li,Na,K)SO4. In fused (Li,Na)CO3, 550 C, K=2.04(334mV)

Ag+ EMF non-aq 25°C 100% U I 1971BSc (117) 73
K=-0.75(-44.56mV)
Medium: 40% w/w acetonitrile/MeOH; K: AgCl(s)+e=Ag(s)+Cl-

Ag+ vlt none 25°C 0.00 U 1971JPa (118) 74
K(Ag + e=Ag(s))=13.61(805mV)

Ag+ EMF mixed 25°C 10% U I 1971KHa (119) 75
K=3.736(221.02mV)
In 10% w/w DMSO/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.718(219.92mV,w=20),3.680 (217.68mV,w=40), 3.578(211.66mV,w=60), 2.994(177.1mV,w=80)

Ag+ EMF mixed 25°C 10% U I 1971KHa (120) 76
K=1.24(73.6mV)
Medium: 10% w/w DMSO/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=1.29(76.5mV,w=20), 1.51(89.6mV,w=40), 1.76(104.0mV,w=60), 1.71(101.4mV,w=70), 1.61(95.0mV,w=80)

Ag+ EMF mixed 25°C 10% U I 1971KHa (121) 77
k=-2.43(-143.6mV)
Medium: 10% w/w DMSO/H2O; K: AgI(s)+e=Ag(s)+I-. K=-2.27(-134.3mV,w=20), -1.79(-105.9 mV,w=40),-1.10(-65.3mV,w=60)

Ag+ EMF none 25°C 0.00 U 1971KKg (122) 78
K=3.758(222.33mV)
K: AgCl(s) + e=Ag(s)+Cl-

Ag+ EMF diox/w 20°C 5% U I 1971MMf (123) 79
K=1.209(70.32mV)
Medium: 5 % w/w dioxan/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=1.170(68.03mV,w=10), 1.128(65.63mV,w=15), 1.093(63.59mV,w=20)

Ag+ EMF diox/w 20°C 45% U I 1971MMf (124) 80
K=0.680(39.55mV)
Medium: 45% w/w dioxan/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=-0.875(-50.88mV,w=70), -2.859(-166.3mV,w=82)

Ag+ EMF diox/w 25°C 5% U I 1971MMf (125) 81
K=1.147(67.85mV)

Medium: 5 % w/w dioxan/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=1.106(65.42mV,w=10), 1.060(62.71mV,w=15), 1.017(60.15mV,w=20)

Ag+ EMF diox/w 25°C 45% U I 1971MMf (126) 82
K=0.583(34.47mV)
Medium: 45% w/w dioxan/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=-0.997(-58.98mV,w=70), -3.017(-178.5mV,w=82)

Ag+ EMF diox/w 30°C 5% U I 1971MMf (127) 83
K=1.080(64.97mV)
Medium: 5 % w/w dioxan/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=1.041(62.64mV,w=10), 0.993(59.70mV,w=15), 0.947(56.98mV,w=20)

Ag+ EMF diox/w 30°C 45% U I 1971MMf (128) 84
K=0.484(29.14mV)
Medium: 45% w/w dioxan/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=-1.138(-68.47mV,w=70), -3.157(-189.9mV,w=82)

Ag+ EMF diox/w 35°C 5% U I 1971MMf (129) 85
K=1.015(62.05mV)
Medium: 5 % w/w dioxan/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=0.976(59.65mV,w=10), 0.922(56.40mV,w=15), 0.873(53.35mV,w=20)

Ag+ EMF diox/w 35°C 45% U I 1971MMf (130) 86
K=0.387(23.64mV)
Medium: 45% w/w dioxan/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=-1.260(-77.05mV,w=70), -3.314(-202.6mV,w=82)

Ag+ EMF mixed 25°C 8% U I 1971RBb (131) 87
K=3.469(205.22mV)
Medium: 8.0% w/w i-propanol/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.758(222.34mV,w=0), 3.299(195.17mV,w=20.8), 3.014(178.31mV,w=44.0)

Ag+ EMF mixed 25°C 70% U I 1971RBb (132) 88
K=2.195(129.87mV)
Medium: 70.3% w/w i-propanol/H2O; K:AgCl(s) + e=Ag(s)+Cl-. K=1.226(72.53mV,w=87.7%) also data at 0, 15 and 35 C

Ag+ EMF mixed 25°C 8% U I 1971RBb (133) 89
K=3.64(215.5mV)
In 8.7% w/w monoglyme/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.53(209.0mV,w=17.8), 2.13(126.2mV,w=57) also 15 and 35 C

Ag+ EMF mixed 25°C 18% U I 1971RBb (134) 90
K=3.45(203.8mV)
In 18.2% w/w tetrahydrofuran/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=1.57(93.1mV, w=73), -0.44(-25.8mV,w=89) also 15 and 35 C

Ag+ EMF mixed 25°C 10% U T 1971RVa (135) 91
K=3.484(206.1mV)

Medium:10% w/w t-butanol/H2O. K:AgCl(s) + e=Ag(s)+Cl-. K=3.912(215.9mV,5 C), 3.040(191.9mV,45 C)

Ag+ EMF mixed 25°C 20% U T 1971RVa (136) 92
K=3.308(195.7mV)
Medium:20% w/w t-butanol/H2O. K:AgCl(s) + e=Ag(s)+Cl-. K=3.774(208.3mV,5 C), 2.950(186.2mV,45 C)

Ag+ EMF mixed 25°C 40% U T 1971RVa (137) 93
K=3.119(184.5mV)
Medium:40% w/w t-butanol/H2O. K:AgCl(s) + e=Ag(s)+Cl-. K=3.557(196.3mV,5 C), 2.638(166.5mV,45 C)

Ag+ EMF mixed 25°C 70% U T 1971RVa (138) 94
K=2.115(125.1mV)
Medium:70% w/w t-butanol/H2O. K:AgCl(s) + e=Ag(s)+Cl-. K=2.616(144.4mV,5 C), 1.624(102.5mV,45 C), also intermediate temperatures

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Ag+ EMF mixed 25°C 5% U T 1971RVb (139) 95
K=3.73(220.9mV)
In 5 % w/w propene carbonate/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=4.18(230.8mV, 5 C), 3.30(208.2mV,45 C)

Ag+ EMF mixed 25°C 10% U T 1971RVb (140) 96
K=3.70(218.8mV)
In 10% w/w propene carbonate/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=4.15(228.9mV, 5 C), 3.25(204.9mV,45 C)

Ag+ EMF mixed 25°C 20% U T 1971RVb (141) 97
K=3.60(213.2mV)
In 20% w/w propene carbonate/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=4.11(226.6mV, 5 C), 3.15(199.0mV,45 C) also intermediate temperatures

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Ag+ EMF mixed 25°C 5% U T 1971RVc (142) 98
K=3.742(221.39mV)
Medium: 5% w/w N,N-dimethylformamide/H2O; K: AgCl(s) + e=Ag(s)+Cl-.
K=4.182(230.81mV,5 C), 3.977(227.35mV,15 C), 3.518(215.07mV,35 C)

Ag+ EMF mixed 45°C 5% U 1971RVc (143) 99
K=3.244(204.76mV)
Medium: 5% w/w N,N-dimethylformamide/H2O; K: AgCl(s) + e=Ag(s)+Cl-

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Ag+ EMF mixed 25°C 10% U T 1971RVc (144) 100
K=3.632(214.87mV)
Medium: 10% w/w N,N-dimethylformamide/H2O; K: AgCl(s) + e=Ag(s)+Cl-
K=4.103(226.43mV,5 C), 3.902(223.07mV,15 C), 3.446(210.63mV,35 C)

Ag+ EMF mixed 45°C 10% U 1971RVc (145) 101
K=3.174(200.38mV)
Medium: 10% w/w N,N-dimethylformamide/H2O; K: AgCl(s) + e=Ag(s)+Cl-

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Ag+ EMF mixed 25°C 95% U T 1971RVd (146) 102
K=-0.384(-22.69mV)
In 95% w/w i-propanol/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=0.340(18.78mV,5 C), -0.137(-7.68mV,10 C), -0.076(-4.35mV,15 C)

Ag+ EMF mixed 20°C 95% U T 1971RVd (147) 103
K=-0.188(-10.93mV)
In 95% w/w i-propanol/H2O; K:AgCl(s) + e=Ag(s)+Cl-. K=-0.478(-28.74mV,30 C), -0.664(-40.58mV,35 C), -0.805(-50.01mV,40 C), -1.005(-63.45mV,45 C)

Ag+ EMF non-aq 25°C 100% U T 1971RVe (148) 104
K=-2.03(-120.0mV)
Medium: propanol; K: AgCl(s) + e=Ag(s)+Cl-. K=-1.55(-85.4mV,5 C), -1.68(-94.3mV,10 C), -1.82(-104.3mV,15 C), -1.92(-111.5mV,20 C)

Ag+ EMF non-aq 30°C 100% U T 1971RVe (149) 105
K=-2.12(-127.8mV)
Medium: propanol; K:AgCl(s) + e=Ag(s)+Cl-. K=-2.18(-133.3mV,35 C), -2.29(-142.0mV,40 C), -2.38(-150.0mV,45 C)

Ag+ EMF mixed 25°C 95% U T 1971RVf (150) 106
K=1.13(66.74mV)
In 95% w/w glycerol/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=1.57(86.59mV,5 C), 1.47(82.64mV,10 C), 1.38(78.68mV,15 C), 1.24(72.12mV,20 C)

Ag+ EMF mixed 30°C 95% U T 1971RVf (151) 107
K=1.01(60.91mV)
In 95% w/w glycerol/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=0.83(50.89mV,35 C), 0.75(46.80mV,40 C), 0.66(41.49mV,45 C)

Ag+ EMF mixed 25°C 20% U T 1971RVg (152) 108
K=3.53(209.0mV)
Medium: 20% w/w glycerol/H2O. K: AgCl(s) + e=Ag(s)+Cl-. K=4.02(222.2mV,5 C), 3.76(215.0mV,15 C), 3.30(202.0mV,35 C), 3.04(192.0mV,45 C)

Ag+ EMF mixed 25°C 40% U T 1971RVg (153) 109
K=3.21(190.0mV)
Medium: 40% w/w glycerol/H2O. K: AgCl(s) + e=Ag(s)+Cl-. K=3.75(207.0mV,5 C), 3.49(199.5mV,15 C), 3.02(184.6mV,35 C), 2.76(174.4mV,45 C)

Ag+ EMF mixed 25°C 70% U T 1971RVg (154) 110
K=2.52(149.0mV)
Medium: 70% w/w glycerol/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.03(167.0mV,5 C), 2.75(157.0mV,15 C), 2.27(139.0mV,35 C), 2.00(126.0mV,45 C)

Ag+ EMF mixed 25°C 90% U T 1971RVg (155) 111
K=1.60(94.7mV)
Medium: 90% w/w glycerol/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=2.01(110.8mV,5 C), 1.82(104.1mV,15 C), 1.34(81.8mV,35 C), 1.10(69.3mV,45 C)

Ag+ EMF mixed 25°C 5% U I 1971STb (156) 112
K=3.71(219.4mV)
In 5% w/w methylcellosolve/H2O; K:AgCl(s) + e=Ag(s)+Cl-. K=3.76(222.6mV,w=0) 3.65(215.7mV,w=10), 3.52(208.3mV,w=20)

Ag+ EMF mixed 25°C 30% U I 1971STb (157) 113
K=3.39(200.7mV)
In 30% w/w methylcellosolve/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.25(192.1mV, w=40), 3.05(180.6mV,w=50)

Ag+ EMF mixed 25°C 60% U I 1971STb (158) 114
K=2.78(164.4mV)
in 60% w/w methylcellosolve/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=1.52(90.0mV, w=80). Also 30, 35, 40 and 45 C

Ag+ EMF non-aq 25°C 100% U I 1970ABb (159) 115
K=-1.83(-108.5mV)
In 25% v/v benzene-EtOH; K: AgCl(s)+e=Ag(s)+Cl-. K=-3.74(-221.0mV,v=50), -5.66(-333.0mV,v=75) also mixtures containing 0.05-1 M H2O

Ag+ EMF non-aq 25°C 100% U 1970BPc (160) 116
K=3.52(0.208V)
Medium: acetamide; K: AgCl(s) + e=Ag(s)+Cl-

Ag+ EMF alc/w 25°C 10% U I 1970FKc (161) 117
K=-2.61(-154.2mV)
Medium: 10% w/w MeOH/H2O; K: AgI(s)+e=Ag(s)+I-. K=-2.61(-154.2mV,w=20.2), -2.53(-149.9mV,w=33.4), -2.52(-149.0mV,w=43.1), -2.52(-149.3mV,w=50)

Ag+ EMF none 25°C 0.00 U I 1970FLa (162) 118
K(Ag+e=Ag(s))=13.508(799.1mV)
Data also in dioxan: K=13.655(807.8mV)

Ag+ EMF alc/w 25°C 10% U I 1970FLa (163) 119
K(Ag+e=Ag(s))=13.633(806.5mV)
Medium: 10% w/w MeOH/H2O. K=13.765(814.3mV,w=20.2%), 13.964(826.1mV,33.4%), 14.140(836.5mV,43.1%)

Ag+ EMF non-aq 25°C 100% U T 1970KCb (164) 120
K=-0.55(-32.3mV)
Medium: propylene glycol. K: AgCl(s) + e=Ag(s)+Cl-. K=-0.03(-1.5mV,5 C), -0.16(-8.9mV,10 C), -0.29(-16.6mV,15 C), -0.42(-24.4mV,20 C)

Ag+ EMF non-aq 30°C 100% U T 1970KCb (165) 121
K=-0.67(-40.2mV)
Medium: propylene glycol. K: AgCl(s) + e=Ag(s)+Cl-. K=-0.79(-48.3mV,35 C), -0.90(-56.1mV,40 C), -1.01(-63.8mV,45 C)

Ag+ EMF non-aq 25°C 100% U T 1970KCb (166) 122

K=-1.70(-100.7mV)
Medium: ethylene glycol; K: AgBr(s)+e=Ag(s)+Br-. K=-1.41(-78.0mV,5 C), -1.50(-84.0mV,10 C), -1.57(-89.5mV,15 C), -1.64(-95.2mV,20 C)

Ag+ EMF non-aq 30°C 100% U T 1970KCb (167) 123
K=-1.78(-106.8mV)
Medium: ethylene glycol; K: AgBr(s)+e=Ag(s)+Br-. K=-1.85(-113.0mV,35 C), -1.91(-118.7mV,40 C), -1.97(-124.5mV,45 C)

Ag+ EMF non-aq 25°C 100% U T 1970KJa (168) 124
K=-2.76(-163.3mV)
Medium: propylene glycol; K: AgBr(s)+e=Ag(s)+Br-. K=-2.43(-134.2mV,5 C), -2.51(-141.1mV,10 C), -2.60(-148.9mV,15 C), -2.68(-156.0mV,20 C)

Ag+ EMF non-aq 30°C 100% U T 1970KJa (169) 125
K=-2.84(-170.6mV)
Medium: propylene glycol; K: AgBr(s)+e=Ag(s)+Br-. K=-2.92(-178.4mV,35 C), -2.99(-185.7mV,40 C), -3.07(-193.7mV,45 C)

Ag+ EMF non-aq 25°C 100% U T 1970KJa (170) 126
K=-4.95(-292.8mV)
Medium: ethylene glycol; K: AgI(s)+e=Ag(s)+I-. K=-4.94(-272.8mV,5 C), -4.94(-277.4mV,10 C), -5.12(-292.8mV,15 C), -4.95(-287.8mV,20 C)

Ag+ EMF non-aq 30°C 100% U T 1970KJa (171) 127
K=-4.95(-297.9mV)
Medium: ethylene glycol; K: AgI(s)+e=Ag(s)+I-. K=-4.96(-303.2mV,35 C), -4.96(-307.9mV,40 C), -4.98(-314.6mV,45 C)

Ag+ EMF non-aq 25°C 100% U T 1970KJa (172) 128
K=-5.86(-346.8mV)
Medium: propylene glycol; K: AgI(s)+e=Ag(s)+I-. K=-5.79(-319.7mV,5 C), -5.80(-325.8mV,10 C), -5.83(-333.2mV,15 C), -5.84(-339.9mV,20 C)

Ag+ EMF non-aq 30°C 100% U T 1970KJa (173) 129
K=-5.88(-353.5mV)
Medium: propylene glycol; K: AgI(s)+e=Ag(s)+I-. K=-5.90(-360.9mV,35 C), -5.92(-367.6 mV,40 C), -5.94(-374.9mV,45 C)

Ag+ EMF alc/w 25°C 50% U T 1970LEb (174) 130
K=3.143(185.96mV)
Medium: 50% w/w EtOH/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.398(194.25mV,15 C), 3.271(190.24mV,20 C), 3.021(181.70mV,30 C)

Ag+ EMF alc/w 35°C 50% U 1970LEb (175) 131
K=2.894(176.92mV)
Medium: 50% w/w EtOH/H2O; K: AgCl(s) + e=Ag(s)+Cl-

Ag+ EMF mixed 25°C 10% U I 1970MMe (176) 132
K=0.19(11.5mV)

Medium:10% w/w i-propanol/H2O; K: AgCl(s) + e=Ag(s)+Cl-. 0%: K=0.27(15.9mV). 20%: 0.14(8.0mV). 30%: 0.09(5.5mV). 50%:-0.11(-6.5mV). 60%: -0.30(-18.0mV)

Ag+ EMF mixed 25°C 10% U I 1970MMe (177) 133
K=0.19(11.0mV)
Medium: 10% w/w t-butanol/H2O. K: AgCl(s) + e=Ag(s)+Cl-. K=0.14(8.0mV,w=20), 0.07(4.0mV,w=30), -0.03(-1.5mV,w=40), -0.20(-12.0mV,w=50), -0.46(w=60)

Ag+ EMF alc/w 25°C 10% U I 1970SPa (178) 134
K=3.623(214.3mV)
Medium: 10% w/w EtOH/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.494(206.7mV,w=20), 3.399(201.1mV,w=30), 3.283(194.2mV,w=40)

Ag+ EMF alc/w 25°C 52% U I 1970SPa (179) 135
K=3.087(182.6mV)
Medium: 52% w/w EtOH/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=2.923(172.9mV,w=60), 2.644(156.4mV,w=70), 2.241(132.6mV,w=80)

Ag+ EMF none 25°C 0.00 U T 1970SPe (180) 136
K=1.21(71.4mV)
K: AgBr(s)+e=Ag(s)+Br-. K=1.44(79.5mV,5 C), 1.32(75.6mV,15 C), 1.08(66.1mV, 35 C)

Ag+ EMF non-aq 98°C 100% U 1969GUa (181) 137
K(Ag + e=Ag(s))=10.25(0.755V)
Medium: N-methylformamide containing 1 M NaNO3

Ag+ EMF non-aq 25°C 100% U 1969MKe (182) 138
K(Ag + e=Ag(s))=9.31(551mV)
Medium: pyridine

Ag+ EMF alc/w 25°C 92% U T 1969PBb (183) 139
K=1.215(71.85mV)
Medium: 92.4% w/w EtOH/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=1.922(106.07mV,5 C), 1.742(97.88mV,10 C), 1.566(89.51mV,15 C)

Ag+ EMF alc/w 20°C 92% U T 1969PBb (184) 140
K=1.387(80.68mV)
Medium: 92.4% w/w EtOH/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=1.038(62.45mV,30 C), 0.866(52.93mV,35 C), 0.696(43.27mV,40 C)

Ag+ EMF alc/w 45°C 92% U T 1969PBb (185) 141
K=0.524(33.09mV)
Medium: 92.4% w/w EtOH/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=0.354(22.69mV,50 C)

Ag+ EMF mixed 20°C 20% U I 1969TBa (186) 142
K=3.70(215.1mV)
In 20.1% w/w sulfolane/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.40(197.8mV,w=40), 2.92(169.8mV,w=60), 1.81(105.2mV,w=80), -0.94(-54.5mV,w=94.3)

Ag+ EMF mixed 25°C 20% U I 1969TBa (187) 143
K=3.57(211.4mV)
In 20.1% w/w sulfolane/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.27(193.7mV,w=40), 2.78(164.3mV,w=60), 1.64(97.3mV,w=80), -1.10(-64.8mV,w=94.3)

Ag+ EMF mixed 30°C 20% U I 1969TBa (188) 144
K=3.45(207.5mV)
In 20.1% w/w sulfolane/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.14(189.1mV,w=40), 2.64(158.5mV,w=60), 1.48(88.9mV,w=80), -1.27(-76.2mV,w=94.3)

Ag+ EMF mixed 40°C 20% U I 1969TBa (189) 145
K=3.21(199.5mV)
In 20.1% w/w sulfolane/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=2.89(179.4mV,w=40), 2.36(146.5mV,w=60)

Ag+ EMF non-aq 15°C 100% U T 1968BDf (190) 146
K(Ag+e=Ag(s))=12.272, 701.6 mV
Medium: NH2CHO. At 25 C: K=11.668, 690.2 mV

Ag+ EMF non-aq 5°C 100% U T 1968BDf (191) 147
K(AgCl(s)+e=Ag(s)+Cl)=4.012
Medium: NH2CHO. K=3.384 at 25 C

Ag+ EMF non-aq 25°C 100% U I 1968ISb (192) 148
K(AgCl(s)+e=Ag(s)+Cl)=-3.11
Medium: Et2O. K=-3.45 (Pr2O), -3.67(Bu2O), -3.89((C5H11)2O)

Ag+ EMF mixed 0°C 46% U I 1968JSa (193) 149
K=3.79(205.3mV)
Medium: 46.5% w/w 1,2-dimethoxyethane/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.11(168.8mV,w=67.0)

Ag+ EMF mixed 35°C 8% U I 1968JSa (194) 150
K=3.42(208.9mV)
Medium: 8.7 % w/w 1,2-dimethoxyethane/H2O; K: AgCl(s) + e=Ag(s)+Cl-. K=3.29(200.9mV,w=17.8), 2.75(168.0mV,w=46.5)

Ag+ EMF mixed 35°C 67% U 1968JSa (195) 151
K=1.80(109.9mV)
Medium: 67.0% w/w 1,2-dimethoxyethane/H2O; K: AgCl(s) + e=Ag(s)+Cl-.
Also 15 and 25 C

Ag+ EMF alc/w 25°C 30% U I 1968MAa (196) 152
K=0.98(58.2mV)
Medium: 30% w/w MeOH/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=0.74(43.6mV,w=60), -0.38(-22.6mV,w=90), -1.77(-104.6mV,w=99), -2.28(-134.9mV,w=100)

Ag+ EMF alc/w 45°C 30% U TI 1968MAa (197) 153
K=0.65(41.1mV)
Medium: 30% w/w MeOH/H2O; K: AgBr(s)+e=Ag(s)+Br-. K=0.30(19.1mV,w=60),

-0.92(-58.2mV,w=90), -2.32(-146.3mV,w=99), -2.79(-176mV,100%). Also at 35 C

Ag+ EMF none 25°C 0.0 U TI 1968MAc (198) 154
K(AgI(s)+e=Ag(s)+I)=-2.574
K=-2.549(35 C). DH=1.0 kJ mol-1. DS= -60 J K-1 mol-1. In 100% MeOH: K=-5.373 (25 C), -5.533(45 C). DH=-14.4, DS=-150. Data also for MeOH/H2O mixtures

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Ag+ EMF non-aq 25°C 100% U 1968MMe (199) 155
K(AgBr(s)+e=Ag(s)+Br)=1.635
Medium: H2NCHO

Ag+ EMF none 10°C 0.0 U T 1968MNc (200) 156
K=17.04, 478.7 mV
K: Ag2C2O4(s) + 2e = 2Ag(s) + C2O4--. At 25 C: K=15.71, 464.7 mV; 50 C: K=13.76, 441.2 mV

Ag+ EMF none 25°C 0.00 U T 1968NMa (201) 157
K=17.25(340.2mV)
K: Ag3PO4(s)+3e=3Ag(s)+PO4---. K=19.65(367.9mV,10 C), 18.77(357.7mV,15 C), 18.04(349.7mV,20 C), 16.39(328.7mV,30 C), 15.61(35 C), 14.78(306.1mV,40 C)

Ag+ EMF mixed 25°C 9% U 1968RSb (202) 158
E0=a+bT+cT^2 (constants a,b and c given for w=9.0,18.2,47.2,73.0 and 89.0 in system w/w % tetrahydrofuran/H2O at 0-35 C)

Ag+ EMF oth/un 25°C 100% U 1968SPe (203) 159
K(AgCl(s)+e=Ag(s)+Cl)=2.536
Medium: Me2NCOMe

Ag+ EMF alc/w 25°C 100% U 1968SSb (204) 160
K=-2.31(-136.8mV)
Medium: MeOH; K: AgBr(s)+e=Ag(s)+Br-

Ag+ EMF non-aq 25°C 100% U 1968SSb (205) 161
K=-5.06(-299.3mV)
Medium: MeOH; K: AgI(s)+e=Ag(s)+I-

Ag+ EMF alc/w 25°C 100% U I 1967ALa (206) 162
K(AgBr(s)+e=Ag(s)+Br)=-2.345
Medium MeOH. K=-0.130, -7.7 mV(87.7% MeOH)

Ag+ EMF alc/w 25°C 100% U I 1967ALa (207) 163
K(AgI(s)+e=Ag(s)+I)=-5.369
Medium: MeOH. K=-3.187, -188.5 mV (87.7% MeOH)

Ag+ EMF non-aq 25°C 100% U T H 1967ANc (208) 164
K(AgCl(s)+e=Ag(s)+Cl)=3.357
Medium: H2NCHO. K=2.982(40 C;185.3 mV), K=2.853(45 C;180.1 mV), K=2.634(55 C;171.5 mV). DH=-192.7 kJ mol-1(25 C), DS=-378.3 J K-1 mol-1

Ag+ kin NaClO4 25°C 4.0M U M 1967HSc (209) 165
K=1.64
Medium: HClO4. K: Co(II) + Ag(II) = Co(III) + Ag(I)

Ag+ EMF NaClO4 25°C 3.0M U I 1967KRb (210) 166
K(Ag+e=Ag(s))=13.106, 775.3 mV
At I=2.0: K=13.253, 784.0 mV; I=1.0: K=13.395, 792.4 mV

Ag+ EMF NaClO4 25°C 3.0M U I 1967KRb (211) 167
K(AgCl(s)+e=Ag(s)+Cl)=3.442
I=2.0: K=3.728, 220.5 mV; I=1.0: K=3.929, 232.4 mV

Ag+ EMF non-aq 5°C 100% U TI 1967SKc (212) 168
K(AgCl(s)+e=Ag(s)+Cl)=0.834
Medium: glycol. K=0.193(35 C;11.8 mV), K=-0.006(45 C;-0.4 mV)
Also values for water glycol mixtures

Ag+ EMF non-aq 25°C 100% U 1966ANc (213) 169
K(AgCl(s)+e=Ag(s)+Cl)=3.357
Medium: H2NCHO

Ag+ gl mixed 25°C 10% U I 1966BFa (214) 170
K(AgBr(s)+e=Ag(s)+Br)=1.025
Medium : 10% MeCO2H. K=0.652, -38.55 mV(60%)

Ag+ EMF mixed 25°C 10% U I 1966BFa (215) 171
K(AgI(s)+e=Ag(s)+I)=-2.721
Medium: 10% MeCO2H. K=-4.166, -246.45 mV(60%). Also data for 20% and 40%

Ag+ EMF non-aq 40°C 100% U I 1966DKb (216) 172
K(AgCl(s)+e=Ag(s)+Cl)=2.699
Medium 30% dioxan/MeCONHMe. K=2.260(43%), 0.439(74%)

Ag+ EMF non-aq 35°C 100% U T 1965DZa (217) 173
K(AgCl(s)+e=Ag(s)+Cl-)=3.465
Medium: MeCONHMe. K=3.055(50 C;194.56mV) K=2.914(55 C;189.72mV) K=2.777(60 C
183.57mV) K=2.525(70 C,171.94mV)

Ag+ EMF diox/w 25°C 20% U I 1965FTa (218) 174
K(AgBr(s)+e=Ag(s)+Br)=1.013
Medium: 20% dioxan. K=0.538, 31.83 mV (45%)

Ag+ EMF diox/w 25°C 20% U I 1965FTa (219) 175
K(AgI(s)+e=Ag(s)+I)=-2.559
Medium: 20% dioxan. K=-2.709, -160.25 mV (45%)

Ag+ EMF none 20°C 0.0 U T 1965KHa (220) 176
K(AgI(s)+e=Ag(s)+I)=2.587
K=-2.548(75 C;-176.0 mV), K=-2.61(100 C;-192.6 mV), K=-2.690((125 C;-212.5C)
K=-2.829(150 C;-237.5mV), K=-3.307(175 C;-270.0mV), K=-3.296(200C;-3.09.4mV)

Ag+ EMF non-aq 263°C 100% U T 1965KUb (221) 177

K=12.02, 639 mV

Medium: molten Na0.50.5NO3. K: 2Ag+ + O-- = Ag(s) + 0.5O2(g). K=9.67,612.8mV at 366 C

Ag+ EMF alc/w 25°C 10% U I 1965PBb (222) 178

K(AgCl(s)+e=Ag(s)+Cl)=3.643

Medium; 10% MeOH/H2O. K=3.433(30%;203.1 mV), K=3.327(40%;196.8 mV), K=3.073(60%;181.8 mV), K=2.845(70%;168.3 mV), K=2.522(80%;149.2 mV)

Ag+ oth none 0°C 0.0 M T 1964ACb (223) 179

K(AgCl(s)+e=Ag(s)+Cl)=4.367

K=3.759, 222.38 mV(25 C), 2.551, 178.74 mV(80 C), 2.143, 158.63(100 C) Many other values for intermediate temperatures.

Ag+ EMF oth/un 5°C ? U T 1964GBa (224) 180

K(AgCl(s)+e=Ag(s)+Cl)=4.082

Medium: D2O. K=3.836, 219.31mV(15 C); K=3.595, 212.66 mV(25 C); K=3.358, 205.32 mV(35 C); K=3.126, 197.33mV(45 C); K=3.012, 193.10mV(50 C)

Ag+ EMF none 0°C 0.0 U T 1964HRb (225) 181

K(AgI(s)+e=Ag(s)+I)=-2.701

K=-2.614(15 C;149.42 mV), K=-2.593(20 C;-150.8 mV), K=-2.577(25 C;-152.4 mV) -2.561(30 C;-154.05 mV), K=-2.541(40 C;-157.9 mV), K=-2.530(50 C;-162.2 mV)

Ag+ EMF none 25°C 0.0 U T 1964LSb (226) 182

K(AgCl(s)+e=Ag((s)+Cl)=3.753

K=2.985, 197.3 mV(60 C); 0.731, 65.0 mV(175 C); -0.133, -13.1 mV(225 C)

Ag+ EMF oth/un 25°C 0.0 U T 1964LSb (227) 183

K(AgCl(s)+e=Ag(s)+Cl)=3.540

Medium: D2O. K=1.406, 111.1 mV(125 C); K=0.912, 76.6mV(150 C); K=-0.029, -2.7 mV(200 C); K=-0.477, -47.1mV(225 C)

Ag+ EMF none 25°C 0.0 M 1964RPa (228) 184

K=9.99, 147.8 mV

K: Ag4Fe((CN)6(s) + 4e = 4Ag(s) + Fe(CN)6----

Ag+ EMF non-aq 25°C 100% U I 1964SSg (229) 185

K(AgCl(s)+e=Ag(s)+Cl)=-1.22

Medium: 70% dioxan/MeOH. K=-1.89(54%;-112mV), K=-2.50(50%;-148mV), K=-2.74(45%;-1.62mV), K=-3.35(40%;-198mV)

Ag+ EMF none 25°C 0.0 M I 1963CLa (230) 186

K=-9.20, -272 mV

K: Ag2S(s) + H + 2e = 2Ag(s) + SH-. In 10% ethanoic acid: K(AgCl(s)+e=Ag(s)+Cl)=3.558, 210.5 mV; in 60%: K=1.885, 111.5 mV

Ag+ EMF alc/w 25°C 10% U I 1963FWa (231) 187

K(AgBr(s)+e=Ag(s)+Br)=1.125
Medium: 10% MeOH. In 43% MeOH: K=0.947, 56.0 mV

Ag+ EMF alc/w 25°C 10% U I 1963FWa (232) 188
K(AgI(s)+e=Ag(s)+I)=-2.601
Medium: 10% MeOH. K=-2.517, -148.9 mV (43%)

Ag+ EMF none 25°C 0.0 U 1962GPa (233) 189
K=5.79(342.3 mV)
K: 0.5Ag2O(s)+0.5H2O+e=Ag(s)+OH

Ag+ EMF none 25°C 0.0 U H 1962GPa (234) 190
K=8.27(244.7 mV)
K: Ag2O(s)+Hg(liq)=2Ag(s)+HgO(s). DS(K)=-38.8 J K-1 mol-1

Ag+ EMF none 25°C 0.0 U T 1962HRa (235) 191
K=1.201(71.06 mV)
K: AgBr(s)+e=Ag(s)+Br. K=1.500(0 C,81.28 mV),1.384(10 C,77.73 mV),1.264(20 C
,73.49 mV),1.140(30 C,68.56 mV),1.016(40 C,63.10 mV),0.890(50 C,57.04 mV)

Ag+ EMF none 25°C 0.0 U 1961DIa (236) 192
K=5.72(338.4 mV)
K: 0.5Ag2O(s)+0.5H2O+e=Ag(s)+OH

Ag+ EMF non-aq 40°C 100% U 1961DSc (237) 193
K=3.31(205.7 mV)
Medium: CH3CONHCH3. K: AgCl(s)+e=Ag(s)+Cl

Ag+ EMF non-aq 25°C 100% U 1961SKd (238) 194
K=5.69(336.6 mV)
Medium: CH3COOH. K: AgCl(s)+e=Ag(s)+Cl

Ag+ EMF none 25°C 0.0 U T 1960GSb (239) 195
K=3.76(222.33 mV)
K:AgCl(s)+e=Ag(s)+Cl. K=2.98(60 C;196.8 mV),2.35(90 C;169.6 mV),1.68(125 C;
133.0 mV),1.23(150 C;103.2 mV),0.37(200 C;34.8 mV),-0.52(250 C;-54 mV)

Ag+ EMF none 35°C 0.0 U 1960JPb (240) 196
K=14.62(446.8 mV)
K: Ag2CrO4(s)+2e=2Ag(s)+CrO4

Ag+ EMF alc/w 25°C 100% U 1960LWb (241) 197
K=-2.32(-137.5 mV)
Medium: MeOH. K: AgBr(s)+e=Ag(s)+Br

Ag+ EMF alc/w 25°C 100% U 1960NUa (242) 198
K=-3.28(-194.0 mV)
Medium: EtOH. K: AgBr(s)+e=Ag(s)+Br. M scale K=-3.14(-186.0 mV) m scale
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Ag+ EMF none 25°C 0.0 U T 1960TGa (243) 199

K=1.21(71.6 mV)
K: AgBr(s)+e=Ag(s)+Br. K=0.76(60 C;50.1 mV),0.35(90 C;25.1 mV),-0.06(125 C;
-4.8 mV),-0.37(150 C;-31.2 mV),-0.69(175 C;-61.2 mV),-1.01(200 C;-95.1 mV)

Ag+ EMF none 25°C 0.0 U H 1957HCa (244) 200
K=8.25(244.0 mV)
K: Ag2O(s)+Hg(liq)=2Ag(s)+HgO(s). DH(K)=-58.5 kJ mol-1, DS=-38.2 J K-1 mol-1

Ag+ EMF none 25°C 0.0 U T 1954BBc (245) 201
K=3.759(222.34 mV)
K: AgCl(s)+e=Ag(s)+Cl. K=4.365(0 C;236.55 mV), 4.119(10 C;231.42 mV), 3.878
(20 C;225.57 mV),3.642(30 C;219.04 mV),3.413(40 C;212.08 mV),2.260(95 C;165)

Ag+ EMF none 25°C 0.0 U T 1953BBc (246) 202
K(Ag+e=Ag(s))=13.514(799.4 mV)
K=14.837(5 C;818.8 mV), 14.154(15 C;809.2 mV), 12.912(35 C;789.4 mV), 12.346
(45 C;779.3 mV). K(0.5Ag2O+H+e=Ag(s)+0.5H2O)=19.83(1173 mV)

Ag+ EMF none 25°C 0.0 U T 1953BBc (247) 203
K=1.205(71.30 mV)
K: AgBr(s)+e=Ag(s)+Br. K=1.447(5 C;79.84 mV),1.389(10 C;78.04 mV),1.330(15 C
;76.02 mV),1.268(20 C;73.74 mV),1.143(30 C;68.73 mV),1.015(40 C,63.09 mV)

Ag+ EMF none 25°C 0.0 U T 1953BBc (248) 204
K=-2.57(-152.1 mV)
K: AgI(s)+e=Ag(s)+I. K=-2.66(5 C;-146.9 mV), -2.608(15 C;-149.1 mV), -2.588
(20 C;-150.5 mV), -2.557(30 C;-153.8 mV), -2.540(40 C,-157.8 mV)

Ag+ EMF none 25°C 0.0 U 1952SUa (249) 205
K=4.96(293.3 mV)
K: AgN3(s)+e=Ag(s)+N3

Ag+ EMF none 25°C 0.0 U T 1951GCa (250) 206
K=-1.22(-36.2 mV)
K: Ag2S(s)+2H+2e=2Ag(s)+H2S(g). K=-1.38(5 C,-38.2 mV),-1.08(45 C,-34.0 mV).
K(Ag2S(s)+2e=2Ag(s)+S)=-24.1(-712.5 mV)

Ag+ EMF none 25°C 0.0 U 1908LPa (251) 207
K=19.82(1172 mV)
K: 0.5Ag2O(s)+H+e=Ag(s)+0.5H2O
****
AsH3 L Arsine CAS 7782-42-1 (1860)
Arsine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
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Ag+ ISE non-aq ? 100% C B2=16.66 1978GRa (1042) 208
Medium: liquid anhydrous HF
****
AsO4--- H3L Arsenate CAS 7778-39-4 (1557)

Arsenate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	20°C	dil	U		1956CHd	(1118)	209
							Kso(Ag3L)=-19.95		
Ag+	sol	oth/un	23°C	var	U		1942TLa	(1119)	210
							Kso(Ag3L)=-21.97		

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BO4H4- HL Borate CAS 10043-35-3 (991)
Borate; B(OH)4-

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	NaClO4	25°C	3.00M	C		K1=0.45	1970HSa (1286)	211
							K(AgHB2(s)+H=Ag+2HB)=4.5		
							K'=-1.07		

AgHB2=0.5Ag2B4O7(H2O)x. K': 0.5AgHB2(s)+0.5H2O=0.5Ag2O(s)+HB

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	none	25°C	0.0	C	IH	B2=10.6	2003WAa (1472)	212
							Kso(AgBr)=-12.28		

Method: analysis of literature data. DH(Kso)=85.4 kJ mol-1. Also Kso= -15.10 (methanol), -13.7 (acetonitrile), -10.8 (DMSO). B2=12.2 (DMSO).

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	con	non-aq	25°C	100%	C		K1=>21	1990SAb (1473)	213

Medium: propylene carbonate.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	U	IH	K1=7.62 B2=10.96	1987JPa (1474)	214

Medium: tetrahydrothiophene, 0.1M Bu4NBF4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	C	H	K1=5.03 B2=8.44	1986AIb (1475)	215
							K3=2.16		

Medium: Pyridine, 0.1 M Et4NClO4; DH(K1)=-3.3, DH(K2)=6.7,DH(K3)=-1.2 kJ m-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	C	H	K1=5.03 B2=8.44	1986AIb (1476)	216
							B3=10.59		
							B(2Ag+Br)=6.68		

Medium: DMSO, 0.1 M NH4ClO4. DH(K1)=-3.3; DH(B2)=3.3 kJ mol-1; DH(B3)=2.1; DH(Ag2Br)=-1.6

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	0°C	1.00M	U	M	K1=5.94 B2=8.56	1985MMc (1477)	217

mixed complexes with thiacetamide B(AgLA)= 9.82; with thiourea B(AgLA)=8.76; B(AgLA2)=13.69 with thiourea and thioacetamide B(AgLAB)=13.47

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Ag+        ISE KNO3   25°C 1.00M U T HM   B2=11.6        1985MMd  (1478) 218
DH(B2)=-37.1 kJ mol-1; DS(B2)=11.6 J K-1 mol-1.
Ternary complexes with: thiourea, thiosulphate, iodide, chloride
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I                    1981CLa  (1479) 219
                                      B2eff=25.5
                                      Kso=-23.5
Medium: methylisobutylketone. Data available for water equilibrated MIBK
-------------------------------------------------------------------------------
Ag+        ISE non-aq 87°C 100%  U        K1=6.55   B2=7.83   1981GBb  (1480) 220
                                      B3=8.32
Medium: fused acetamide
-------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C  0.0  C T H                1980JPa  (1481) 221
                                      Kso(AgBr)=-12.305
Method: Ag/AgBr,Br- electrode. Data for 15-55 C. Molal scale: Kso=-12.303
DH(Kso)=84.15 kJ mol-1, DS(Kso)=45.1 J K-1 mol-1.
-------------------------------------------------------------------------------
Ag+        EMF KNO3   45°C  0.0  C  I                 1978JPa  (1482) 222
                                      Kso(AgBr)=-11.39
Method: AgBr/Br- electrode. Data extrapolated to I=0 from 0.005-0.10 M
KNO3/NaNO3.
-------------------------------------------------------------------------------
Ag+        cal NaClO4 25°C  5.0M C   H                1977ATb  (1483) 223
Medium: 0.1 M HClO4/4.9 M NaClO4. DH(B3)=-54.6 kJ mol-1, DS(B3)=
-9 J K-1 mol-1; DH(B4)=-79.6, DS(B4)=-91; DH(Kso(AgBr))=80.0, DS=26.
-------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U        K1=5.80   B2=7.38   1975CAa  (1484) 224
                                      B3=8.23
-------------------------------------------------------------------------------
Ag+        EMF NaNO3  25°C  4.6M C T H    B2=7.47        1975PPc  (1485) 225
                                      B3=7.88
                                      B4=8.52
Method: Ag/Ag+ electrode. Data for 25-70 C. Medium: 4.6 m KBr/NaNO3.
DH(B2)=-43.9 kJ mol-1, DH(B3)=-54, DH(B4)=-67.
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        B2=13.22       1975SAb  (1486) 226
                                      B3=15.29
                                      Kso=-12.50
Medium: propylene carbonate/0.56 M tetrahydrothiophene
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I     B2=11.06       1975SAb  (1487) 227
                                      B3=11.97
                                      Kso=-10.02
Medium: propylene carbonate/0.56 M tetrahydrothiophene
In propionitrile/0.10 M THT, B2=13.0, B3=15.0, Kso=-10.8
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I     B2=16.4        1975SAc  (1488) 228
                                      Kso=-15.6
                                      B2=13.6 in TMSO
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Medium: PC/TMSO, 1.23 M. In dimethylsulfite: Kso=-18.3, B2=17.1.
In ethylene sulfite: B2=20.1, Kso=-20.0. TMSO=Tetramethylene sulfoxide

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Ag+ EMF oth/un 50°C 10% U IH 1974DGb (1489) 229
Kso=-13.55
Medium:10% NaNO3-Ca(NO3)2(H2O)4. DH(Kso)=77.5 kJ mol-1. 0%: Kso=-13.47,
DH(Kso)=76.4; 20%: Kso=-13.52, DH(Kso)=81.30

Ag+ EMF non-aq 25°C 100% U 1974FCa (1490) 230
L(AgL(s)+LiL=LiAgL2)=1.0
Medium: THF. Method: current-voltage studied

Ag+ sol none 25°C 0.0 U T 1974GHb (1491) 231
Kso=-12.31
Kso=-11.85(35 C), -11.42(45 C)

Ag+ EMF non-aq 30°C 100% U K1=3.95 B2=5.45 1974JAc (1492) 232
Medium: pyridine, 0.2 M LiClO4 m units

Ag+ dis R4N.X 70°C ? U K1=3.70 B2=6.70 1974NGc (1493) 233
K3=1.04
K4=0
Medium: NH4NO3(H2O)2; K values:in m units

Ag+ ISE non-aq 25°C 100% U I B2=17.65 1974SAb (1494) 234
B3=18.89
Kso=-16.32
Medium: 3-Me-2-oxazolidone, 0.1 M Pr4NClO4

Ag+ ISE mixed 25°C 80% U I B2=12.98 1974SAc (1495) 235
B3=14.86
Kso=-14.79
Medium: 80% acetone/H2O. In 91.2% acetone, B2=16.20, B3=15.44, Kso=-16.38
In 98.5% acetone, Kso=-18.67, B2=19.92, B3=21.34

Ag+ sol alc/w 25°C 9.5% U I K2=1.11 1973ABc (1496) 236
K3=0.60
Kso=-12.69
In w/w MeOH/H2O. K2=0.45,K3=2.10,Kso=-12.46(0%); K2=1.88,K3=0.95,Kso=-12.84
(19.8%);K2=1.76,K3=1.00,Kso=-12.99(34.5%);K2=2.12,K3=0.84,Kso=-13.5(54.2%)

Ag+ sol alc/w 25°C 9.7% U I K2=1.74 1973ABc (1497) 237
K3=0.70
Kso=-12.52
In w/w EtOH/H2O; K2=1.87,K3=0.69,Kso=-12.80(19.9%); K2=2.43,K3=-0.14,Kso=
-13,00(34.5%) etc. Data also in acetone/H2O, dioxan/H2O

Ag+ sol mixed 25°C 9.6% U I K2=1.79 1973ABc (1498) 238
K3=0.64
Kso=-12.52

In w/w acetone/H2O. K2=2.03,K3=0.75,Kso=-12.99(19.8%); K2=2.73,K3=0.40,
Kso=-13.23(34.4%);K2=3.12,K3=0.06,Kso=-13.47(42.1%); K2=3.72,K3=-0.52(54.2%)

Ag+ EMF oth/un 87°C 100% U 1973BMc (1499) 239
Kso=-7.92
Medium: CH3COONa. Kso:in m units

Ag+ ISE none 25°C 0.0 U 1973BRa (1500) 240
Kso=-12.2

Ag+ ISE non-aq 25°C 100% U B2=14.1 1973CCa (1501) 241
Kso=-13.3
Medium: MeCN, 0 corr, m units

Ag+ ISE non-aq 25°C 100% U B2=13.8 1973CKa (1502) 242
Kso=-13.7
Medium: MeCN, 0 corr

Ag+ ISE non-aq 350°C 100% U T K1=3.27 1973GBb (1503) 243
Medium: (Na,Ba)NO3. K1=3.11 to 3.17(375 C), 2.91 to 2.96(400 C) unit:mol/mol
solvent

Ag+ sol non-aq 163°C 100% U T K1=4.26 B2=7.95 1973GDa (1504) 244
Kso=-11.01
Medium: (K,Ca)NO3. K1=4.05,K2=3.61,Kso=-10.64(183 C); K1=3.95,K2=3.27,Kso=
-10.10(198 C) x units

Ag+ ISE alc/w 25°C 10% U I 1973KPa (1505) 245
Kso=-12.5
In 10% v/v MeOH/H2O. Kso=-12.32(0%),-13.0(40%),-13.4(60%),-14.5(90%);
Also in EtOH, PrOH, i-PrOH, acetone, DMF

Ag+ ISE mixed 25°C 10% U I 1973KPa (1506) 246
Kso=-12.2
In v/v DMF/H2O. Kso=-12.5(v=40), -12.7(v=60). In Acetone/H2O: Kso=-12.4(10%)
-12.3(20%), -11.9(30%), -12.3(40%)

Ag+ ISE diox/w 20°C 50% U I 1973NEa (1507) 247
Kso=-13.77
Medium: 50% v/v dioxan/H2O, 0.001 M KBr. Kso=-15.02(70%), -15.89(80%),
-16.92(90%)

Ag+ ISE non-aq 25°C 100% U B2=16.24 1973SSg (1508) 248
B3=17.63
Kso=-14.95
Medium: EtCN, 0.1 M Pr4NClO4. With 0.95 M SO2: B2=9.93, Kso=-11.40;
with 3.3 M SO2: B2=7.87, Kso=-10.25

Ag+ ISE non-aq 270°C 100% U T 1973TTa (1509) 249
Kso=-7.58

Medium: LiNO3. Kso=-7.13(300 C), -6.58(320 C), -6.30(340 C) m units
In KNO3: Kso=-5.20(350 C), -4.99(370 C), -4.69(395 C). Other melts also

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Ag+ ISE oth/un 50°C ? U T 1972BNa (1510) 250
Kso=-13.57
Medium: Ca(NO3)2(H2O)4. Kso=-13.21(60 C), -12.97(65 C), -12.76(70 C),
-12.44(80 C)

Ag+ sol non-aq 25°C 100% U B2=11.14 1972GSd (1511) 251
B3=12.0
B(Ag2L3)=20.2
B(Ag3L4)=30.4
B(Ag2L)=8.14
Medium: DMSO, 0.5 M KNO3

Ag+ ISE mixed ? 2.7% U I 1972KPa (1512) 252
Kso=-12.4
In acetone/H2O. Kso=-12.6(5.83%),-12.6(9.83%),-12.1(14.2%). In DMF/H2O:
Kso=-12.36(0%), -12.22(2.52%), -12.50(13.3%), -12.70(25.9%)

Ag+ EMF non-aq 30°C 100% U B2=12.1 1971BPb (1513) 253
Kso=-11.0
Medium: N-methyl-2-pyrrolidone, 0.1 M Et4NClO4. Method: current-voltage

---

Ag+ EMF non-aq 375°C 100% U T K1=3.17 B2=5.85 1971GBb (1514) 254
Medium: (Na,Ba)NO3 eutectic. K1=3.28(350 C), 2.96(400 C); K2=2.53(400 C)
units mol/mol solvent

Ag+ EMF non-aq 350°C 100% U T 1971GJa (1515) 255
Kso=-5.67
Medium: (Na,Ba)NO3. m units; log Kso=3.535-5739/T at 350-425 C

Ag+ EMF oth/un 130°C 100% U T K1=1.17 1971KIa (1516) 256
Medium: EtNH3Cl. K1=1.10(150 C), 1.02(180 C), 0.93(200 C) unit:mol/molsolv.

Ag+ sol alc/w 20°C 50% U I 1971NEa (1517) 257
Kso=-13.00
In 50% w/w MeOH/H2O. Kso=-13.48(70%),-13.90(80%),-14.34(90%),-15.06(100%)
In PrOH/H2O: Kso=-12.96(50%),-13.60(70%),-14.20(80%),-14.96(90%),-16.24(100%

Ag+ EMF non-aq 20°C 100% U B2=12.0 1970DMa (1518) 258
B12=10.9
Kso=-10.9
Medium: DMSO, 0.1 M Et4NClO4

Ag+ sol R4N.X 55°C ? U T K1=3.70 1969BBe (1519) 259
Kso=-10.30
Medium: NH4NO3(H2O)2. K1=3.58,Kso=-10.00(70 C); K1=3.52,Kso=-9.60(85 C);
K1 and Kso:in m units

```
Ag+        ISE non-aq 30°C 100%  U  I     B2=20.2        1969BBg  (1520) 260
                                          Kso=-18.9
Medium: sulfolane, 0 corr. B2=19.7, Kso=-18.4(I=0.1)
--------------------------------------------------------------------------------
Ag+        ISE non-aq 22°C 100%  U        B2=21.2        1969CLa  (1521) 261
                                          Kso=-20.5
Medium: propene carbonate, 0.1 M Et4NClO4
--------------------------------------------------------------------------------
Ag+        ISE NaNO3  70°C  1.0M U T                     1969GUa  (1522) 262
                                          B3=6.84
                                          Kso=-9.81
B3=6.53(80 C),6.46(90 C);Kso=-10.65(50 C),-10.21(60 C),-9.47(80 C),-9.22
(90 C). Method: Ag electrode
--------------------------------------------------------------------------------
Ag+        ISE non-aq 98°C 100%  U        B2=7.5         1969GUa  (1523) 263
                                          B3=8.97
                                          Kso=-9.39
In N-methylformamide, 1 M NaNO3
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U                       1969MLa  (1524) 264
                                          K(AgL+HL)=3.9
Medium: pyridine. Other constants also reported
--------------------------------------------------------------------------------
Ag+        EMF non-aq 148°C 100%  U T                    1969SMh  (1525) 265
                                          Kso=-9.77
Medium: (Li,K)NO3. Kso=-9.73(150 C), -9.14(172 C), -8.58(194.5 C),
-8.19(211.5 C) m units
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        B2=17.53       1969VKa  (1526) 266
                                          Kso=-14.49
Medium: N-methyl-2-pyrrolidone
--------------------------------------------------------------------------------
Ag+        ISE non-aq 20°C 100%  U        B2=19.7        1968BBb  (1527) 267
                                          Kso=-19.7
Medium: CH3NO2
--------------------------------------------------------------------------------
Ag+        ISE non-aq 30°C 100%  U        B2=19.32       1968DLa  (1528) 268
                                          Kso=-18.18
Medium:sulpholan, 0.1 M Et4NClO4
--------------------------------------------------------------------------------
Ag+        sol oth/un 56°C 100%  U T      K1=3.74   B2=6.58   1968GAa  (1529) 269
                                          K3=1.32
                                          Kso=-10.31
Medium:NH4NO3(H2O)2. At 70C: Kso=-10.11,K1=3.72,K2=2.88,K3=1.18
87 C: Kso=-9.67,K1=3.65,K2=2.71,K3=0.87
--------------------------------------------------------------------------------
Ag+        ISE non-aq 350°C 100%  U   H                 1968GSf  (1530) 270
                                          Kso=-5.40
Medium:(K/Ba)NO3 eutectic. DHso=100.5 kJ mol-1, m units
--------------------------------------------------------------------------------
```

```
Ag+        sol non-aq 24°C 100%  U                        1968LAc  (1531) 271
                                        B(Ag2L)=8.23
Medium: DMSO, 0.5 M Et4NClO4
-------------------------------------------------------------------------------
Ag+        sol non-aq 190°C 100%  U T H    K1=3.06   B2=5.72   1968MGb  (1532) 272
                                        Kso=-8.36
Medium:molten (Li/K)NO3. Kso=-9.28(150 C),-8.83(169 C); K1=3.31(150 C),
3.20(169 C); K2=2.91(150 C),2.82(169 C). DH(K1)=DH(K2)=-5.2 kJ mol-1
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I     B2=11.4        1967AKa  (1533) 273
                                        Kso=-10.6
Medium:DMSO.Kso=-15.2 in MeOH; Kso=-12.9,B2=13.7 in MeCN;Kso=-11.4 in HCONH2
Kso=-15.0, B2=16.6 in Me2NCOMe; Kso=-12.3,B2=16.5 in (Me2N)3PO
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  1.0M U                        1967BPf  (1534) 274
                                        B4=8.33
-------------------------------------------------------------------------------
Ag+        ISE non-aq 257°C 100%  U T H                   1967FBb  (1535) 275
                                        Kso=-8.46
Medium:molten (Li/Na)ClO4. Kso=-9.43(217 C); -8.65(250 C). DHso=110 kJ mol-1
-------------------------------------------------------------------------------
Ag+        ISE non-aq 546°C 100%  U        K1=2.20   B2=4.10   1967GUb  (1536) 276
                                        K(Ag2L)=1.9
Medium:(Li/K)SO4 eutectic, 412-680 C. x units
-------------------------------------------------------------------------------
Ag+        ISE non-aq 85°C 100%  U T      B2=10.15       1967RPc  (1537) 277
                                        Kso=-9.21
Medium: DMSO, 0.1 M NH4NO3. Kso=-10.04(25 C),-9.74(45 C),-9.35(65 C);
B2=10.59(25 C),10.43(45 C),10.18(65 C)
-------------------------------------------------------------------------------
Ag+        sol non-aq 275°C 100%  U T      B2=4.39        1967SPc  (1538) 278
                                        B3=4.89
                                        B(Ag2L)=3.93
                                        B(Ag3L)=4.46
                                        Kso=-6.57
Medium:(Na/K)NO3. At 300 C:B2=4.24, B3=4.50, B12=3.75, B13=4.16, Kso=-6.19
Ks1=-4.3,  m units
-------------------------------------------------------------------------------
Ag+        ISE non-aq 23°C 100%  U  I     B2=12.0        1966LIb  (1539) 279
                                        Kso=-10.6
Medium: DMSO, I=0.1 M Et4NClO4. In MeCN: Kso=-13,2, B2=13.4 to 14.1
In MeOH:Kso=-15.2, B2=11.5; in Me2CO: Kso=-18.7, B2=20.0; in EtNO2:Kso=-21.8
-------------------------------------------------------------------------------
Ag+        dis oth/un       0.0  U                        1966LKa  (1540) 280
                                        Kd(H+Ag+2L+3TBP(C6H6))=9.79
-------------------------------------------------------------------------------
Ag+        ISE non-aq 150°C 100%  U                        1965BFc  (1541) 281
                                        Kso=-9.72
Medium:(Li/K)NO3 eutectic. m units
-------------------------------------------------------------------------------
```

```
Ag+        ISE non-aq 25°C 100%  U                        1965MBd  (1542) 282
                                        Kso=-4.26
Medium: diaminoethane
-------------------------------------------------------------------------------
Ag+        sol NaClO4 20°C  7.0M U                        1964AJa  (1543) 283
                                        Ks2=-4.90
                                        Ks3=-3.67
                                        Ks4=-3.65
Medium:4 M NaClO4,3 M HClO4
-------------------------------------------------------------------------------
Ag+        ISE non-aq 250°C 100%  U   H                   1964BLa  (1544) 284
                                        Kso=-9.07
Medium:molten (Na/K)NO3.  DHso=93.6 kJ mol-1
-------------------------------------------------------------------------------
Ag+        ISE non-aq 280°C 100%  U        K1=2.43   B2=4.38   1964CMa  (1545) 285
                                        B3=4.77
                                        B(Ag2L6)=10.08 ?
                                        Kso=-6.52
Medium:molten (Na/K)NO3. By solubility:K1=2.43, B2=4.36, B3=4.83, B(2,6)=
10.34, Kso=-6.57?
-------------------------------------------------------------------------------
Ag+        sol oth/un 300°C  var  U                       1964GGa  (1546) 286
                                        Ks2=-0.95
Medium:NaBr var
-------------------------------------------------------------------------------
Ag+        sol oth/un 20°C  0.0  U        K1=4.68        1964LIa  (1547) 287
                                        K(AgL+Ag)=2.38
                                        K(AgL+2Ag)=3.45
ynd Ref:64La.   Medium:0 corr
-------------------------------------------------------------------------------
Ag+        sol oth/un 18°C  var  U        K1=4.69   B2=7.65   1963MIc  (1548) 288
                                        B3=8.70
                                        B4=8.78
                                        B5=8.0
                                        Kso(AgBr)=-12.68
Medium: NaBr.
-------------------------------------------------------------------------------
Ag+        ISE non-aq 148°C 100%  U T                     1963THa  (1549) 289
                                        Kso(AgBr)=-11.4
Medium: Ag electrode. Method: liquid (Li/K)NO3. Kso=-10.9(172 C),
-10.3(194.5 C), -10.2(211.5 C). x units.
-------------------------------------------------------------------------------
Ag+        ISE non-aq 403°C 100%  U T      K1=2.97   B2=5.54   1962ABb  (1550) 290
                                        K(AgBr+Ag=Ag2Br)=2.47
Method: Ag electrode. Medium: liquid KNO3,x units. At 452 C:K1=2.86, K2=2.44
K(AgL+Ag)=2.32. At 500 C: K1=2.73, K2=2.29, K(AgL+Ag)=2.16
-------------------------------------------------------------------------------
Ag+        ISE non-aq   ?  100%  U                       1962BSa  (1551) 291
                                        Kso(AgBr)=-19
Method: Ag electrode. Medium: THF, 0.3 M LiClO4
```

Ag+ sol NaClO4 25°C 7.0M U 1962FSb (1552) 292
B4=9.00
Kso(AgBr)=-12.11

Ag+ ISE non-aq 402°C 100% U T K1=2.80 B2=5.19 1962MBc (1553) 293
K(AgBr+Ag=Ag2Br)=2.45
Method: Ag electrode. Medium: liquid NaNO3,x units. At 438 C:K1=2.70,K2=2.26
K(AgL+Ag)=2.30. 460 C:K1=2.63,K2=2.18,K(AgL+Ag)=2.22. 500 C:2.51,2.01,2.08

Ag+ ISE non-aq 376°C 100% U T H K1=1.97 B2=3.49 1961DGc (1554) 294
Method: Ag electrode. Medium: liquid (Na,K)NO3. K1=1.86, K2=1.26(414 C)
DH(K1)=-24.9 kJ mol-1. DH(K2)=-58.2 kJ mol-1

Ag+ ISE R4N.X 25°C 1.0M U 1961LPa (1555) 295
Kso(AgBr)=-11.92
Method: Ag electrode. Medium: NH4ClO4

Ag+ con non-aq 25°C 100% U K1=4.08 1961SBb (1556) 296
Medium: C2H4(NH2)2. K1=5.05 by Ag electrode

Ag+ cal non-aq 158°C 100% U H 1960JMa (1557) 297
Medium: liquid (Li,K)NO3. DH(so)=109 kJ mol-1. DS=81.6 J K-1 mol-1.

Ag+ sol none 20°C 0.0 U 1960LIa (1558) 298
B(Ag2Br)=7.06
B(Ag3Br)=8.13

Ag+ sol none 18°C 0.0 U K1=4.68 B2=7.66 1957LIa (1559) 299
K3=0.85
K4=-1.29
Kso(AgBr)=-12.68

Ag+ ISE non-aq 250°C 100% U H 1956FRb (1560) 300
Kso(AgBr)=-7.12
Method:Ag electrode. Medium:liquid Na/KNO3. DH=89.1 kJ mol-1, DS=34, m units

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Ag+ ISE oth/un 12°C var U T H 1956KLa (1561) 301
Kso(AgBr)=2.67-4470/T
Method: Ag electrode. 12-82 C; DH=85.8 kJ mol-1

Ag+ con none 25°C 0.0 U T 1954GMa (1562) 302
Kso(AgBr)=-12.28
Kso=-13.33(5 C), -12.83(15 C), -11.80(35 C), -11.34(45 C), -10.89(55 C)

Ag+ ISE none 24°C 0.0 U 1954KTa (1563) 303
B3=8.85
K4=0.13
K5=-0.38
B(Ag2Br6)=20.60

Ag+ sol NaClO4 25°C 5.0M U I 1954KTa (1564) 304
B3=9.18
K4=0.30
In 0.1 M NaClO4 K1=4.30, K2=2.34, K3=1.44. In KBr var: K1=5.08, K2=2.62, K3=1.06,K4=0.14,K5=-0.39 or B(Ag2L6)=20.51. AgNO3 var:B(Ag3L)=8.00,B(Ag4L)=8.38

Ag+ sol oth/un 20°C var. U I B2=7.93 1954KTa (1565) 305
K3=0.97
K4=-0.06
K(AgBr(s)+Br=AgBr2)=-4.60
K(AgBr(s)+2Br=AgBr3)=-3.64
Medium: AgNO3. K(AgBr(s)+3Br=AgBr4)=-3.70. Also data for MeOH/H2O, Me2CO/H2O and EtOH/H2O mixtures

---

Ag+ sol none 25°C 0.0 U T 1954LPb (1566) 306
B3=8.53
B3=8.66(35 C), 8.70(45 C)

Ag+ ISE oth/un 20°C var U T H 1954PVa (1567) 307
B3=9.03
B5=9.37
Kso(AgBr)=-12.57
Method: Ag electrode. B3=8.71(30 C), 8.12(50 C), 7.68(70 C). DH(B3)=-52.7 kJ mol-1. B5=8.87(30 C),7.98(50 C),7.19(70 C). DH(B5)=-85.4. Kso=-10.80(60 C)

Ag+ ISE NaClO4 25°C 5.0M U I 1953BLa (1568) 308
B3=8.88
K4=0.27
B(Ag2Br6)=ca.20
Kso(AgBr)=-12.62
Method: Ag electrode. In 0.1 M Kso=-12.11. By solubility, 5 M: B2=7.23, K3=1.85, K4=0.12, K(AgL(s)+L=AgL2)=-5.40, K(AgL(s)+2L)=-3.52,K(AgL(s)+3L)=-3.41

Ag+ sol NaClO4 25°C 0.10M U I K1=4.15 B2=7.11 1953BLa (1569) 309
K3=0.84
K4=0.94
Kso(AgBr)=-12.10
K(AgBr(s)=AgBr)=-7.96
K(AgL(s)+L=AgL2)=-5.00, K(AgL(s)+2L)=-4.15, K(AgL(s)+3L)=-3.22. At I=0 corr. K1=4.38, K2=2.96, K3=0.66, K4=0.73, Kso=-12.37, K(AgL(s)+L)=-7.96 etc.

Ag+ con none 25°C 0.0 U 1953GMb (1570) 310
Kso(AgBr)=-12.2

Ag+ ISE none 25°C 0.0 U 1952CPa (1571) 311
B3=8.72
B5=9.30

Ag+ sol oth/un 25°C var U 1949RWa (1572) 312

```
                                        Kso(AgBr)=-12.4
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  var  U   H                  1941ERa  (1573) 313
                                        B(Ag2Br6)=20.2
                                        K(2AgBr(s)+4Br=Ag2Br6)=-4.2
                                        B4=8.51
Medium: HBr. DH(Ag2Br6)=-160 kJ mol-1
-------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U T H                1938OBa  (1574) 314
                                        Kso(AgBr)=-12.30
Method: Ag electrode. I=0 corr. DH(so)=84.3 kJ mol-1, DS=47.3 J K-1 mol-1.
Kso=-13.386(5 C), -12.820(15 C), -11.828(35 C), -11.392(45 C)
-------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U                    1933HJa  (1575) 315
                                        Kso(AgBr)=-12.20
-------------------------------------------------------------------------------
Ag+        ISE oth/un 18°C 0.10M U                    1930MAa  (1576) 316
                                        Kso(AgBr)=-12.31
Method: Ag electrode. Medium: KBr
-------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U                    1929BHa  (1577) 317
                                        Kso(AgBr)=-15.24
Method: Ag electrode. Medium: MeOH
-------------------------------------------------------------------------------
Ag+        ISE none   16°C  0.0  U                    1927CAa  (1578) 318
                                        Kso(AgBr)=-12.50
-------------------------------------------------------------------------------
Ag+        ISE oth/un  rt  var.  U                    1927HSa  (1579) 319
                                        Kso(AgBr)=-11.62
-------------------------------------------------------------------------------
Ag+        ISE oth/un 18°C var.  U                    1921KOa  (1580) 320
                                        Kso(AgBr)=-12.39
-------------------------------------------------------------------------------
Ag+        con oth/un 21°C  dil  U                    1908KOa  (1581) 321
                                        Kso(AgBr)=-12.47
-------------------------------------------------------------------------------
Ag+        con oth/un 100°C  dil  U                   1906BOa  (1582) 322
                                        Kso(AgBr)=-9.4
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C var.  U                    1904BEa  (1583) 323
                                        B4=8.94
Medium: KBr.
-------------------------------------------------------------------------------
Ag+        con none   20°C  0.0  U                    1903BOb  (1584) 324
                                        Kso(AgBr)=-12.69
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U                    1902BFa  (1585) 325
                                        Kso(AgBr)=-12.237
I=0 corr. Kso(AgBr/Kso(AgCl)=-2.485.
-------------------------------------------------------------------------------
```

```
Ag+        sol oth/un 25°C var.  U                      1900HEb  (1586) 326
                                        B(Ag2Br)=9.70
Medium: AgNO3.
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C var.  U                      1900THa  (1587) 327
                                        Kso(AgBr)=-12.18
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C var.  U                      1894GOa  (1588) 328
                                        Kso(AgBr)=-12.36
-------------------------------------------------------------------------------
Ag+        con oth/un 20°C  dil  U T                    1893HOa  (1589) 329
                                        Kso(AgBr)=-11.13
Kso=-10.32(38.4 C)
-------------------------------------------------------------------------------
Ag+        con oth/un 18°C  dil  U                      1893KRa  (1590) 330
                                        Kso(AgBr)=-11.4
*******************************************************************************
BrO3-                  HL    Bromate            (6017)
Bromate;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        con none   30°C  0.0  C  I     K1=1.033       1990GKd  (2395) 331
Also data for 20-100% w/w DMSO/H2O.
-------------------------------------------------------------------------------
Ag+        con none   30°C  0.0  C  I     K1=1.03        1986SKf  (2396) 332
Data for 0.001-0.008 M AgBrO3 in 0-100% AN/H2O or MeOH/AN mixtures.
In 100% acetonitrile, K1=2.49
-------------------------------------------------------------------------------
Ag+        ISE non-aq 20°C 100%  U                      1968BBb  (2397) 333
                                        Kso=-11.1
Medium: nitromethane
-------------------------------------------------------------------------------
Ag+        cal oth/un 25°C  dil  U   H                  1967SVa  (2398) 334
DHso(AgL(s)=Ag+L)=80.7 kJ mol-1
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U TIH                  1963RDa  (2399) 335
                                        Kso(AgL)=-4.27
I=0 corr.Kso=-4.58(14.7 C),-3.99(35 C). DH(so)=49.0 kJ mol-1, DS=82 (25 C)
In D2O: Kso=-4.75(14.7 C),-4.41(35 C),-4.13(35 C). DH(so)=52.3, DS=91
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U       K1=0.30        1951MOa  (2400) 336
                                        Kso(AgL)=-4.28
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U                      1949TLa  (2401) 337
                                        Kso(AgL)=-4.26
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U                      1923BOa  (2402) 338
                                        Kso(AgL)=-4.24
-------------------------------------------------------------------------------
```

```
Ag+        con none   20°C  0.0  U                        1903BOb  (2403) 339
                                      Kso(AgL)=-4.40
********************************************************************************
CN-                    HL    Cyanide          CAS 74-90-8  (230)
Cyanide;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        cal NaClO4 25°C  1.0M C   H                    1996SMc  (2530) 340
DH(B4)=-144.2 kJ mol-1, DS(B4)=-98.3 J mol-1 K-1.
--------------------------------------------------------------------------------
Ag+        ISE non-aq 185°C 100%  M        K1=2.10   B2=4.24   1988JHb  (2531) 341
                                      B3=4.40
Medium: molten KSCN. K1=mol-1 kg
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.04M C TIH  R K1=13.23  B2=20.9   1987BEa  (2532) 342
                                      B3=21.8
IUPAC evaluation
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C        B2=20.61       1985YWa  (2533) 343
--------------------------------------------------------------------------------
Ag+        ISE non-aq   ?  100%  C                       1978GRa  (2534) 344
                                      K(Ag+2HCN=Ag(HCN)2)=5.64
Medium: liquid anhydrous HF
--------------------------------------------------------------------------------
Ag+        ISE oth/un 20°C 0.10M U        K1=15.45  B2=20.45  1976CCa  (2535) 345
Medium: pH 11.0
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M U        B2=18.75       1974MKd  (2536) 346
--------------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C 1.00M U    M                   1972FAa  (2537) 347
                                      K(Ag+Cr(III)(CN))=5.7
                                      K(Cr(CN)+Cr(CN)Ag)=5.0
--------------------------------------------------------------------------------
Ag+        ix  NaClO4 25°C  1.0M U    M                   1972FAa  (2538) 348
                                      K(Ag+Cr(III)(CN))=5.7
                                      K(Cr(III)CN+Cr(III)(CN)Ag)=5.0
--------------------------------------------------------------------------------
Ag+        sol NaClO4 25°C  1.0M U        B2=20.14       1972GCa  (2539) 349
                                      B(Ag(OH)(CN))=12.80
                                      Kso=-15.54
--------------------------------------------------------------------------------
Ag+        EMF oth/un 25°C 0.03M U        B2=20.9        1972HFa  (2540) 350
                                      B3=21.8
Medium: 0.025 M KCN
--------------------------------------------------------------------------------
Ag+        con non-aq 20°C 100%  U        B2=23.4        1970DMa  (2541) 351
                                      B(Ag2CN)=15.0
                                      Kso=-14.9
Medium: DMSO, 0.1 M Et4NClO4
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-------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  U        K1=5.88   B2=10.18  1969MKe  (2542) 352
                                          K3=4.3
Medium: pyridine
-------------------------------------------------------------------------------
Ag+        ISE non-aq 20°C 100%  U        B2=34          1968BBb  (2543) 353
                                          Kso <-24
Medium: MeNO2
-------------------------------------------------------------------------------
Ag+        ISE oth/un 30°C  var  U        B2=21.1        1968KAa  (2544) 354
Medium: KCN
-------------------------------------------------------------------------------
Ag+        ISE non-aq 370°C 100%  U        K1=1.16   B2=1.79   1968WIb  (2545) 355
Medium: molten (Li/K)Cl. Alternatively: K1=1.11, B2=1.85
-------------------------------------------------------------------------------
Ag+        ISE KNO3   30°C  1.0M U                          1967ADb  (2546) 356
                                          B3=20.30
                                          B4=20.79
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  1.0M U                          1967BPf  (2547) 357
                                          B4=20.37
-------------------------------------------------------------------------------
Ag+        nmr non-aq 25°C 100%  U                          1967DHa  (2548) 358
                                          K(2AgHL=Ag+Ag(HL)2)=0.66
Medium: liquid HF
-------------------------------------------------------------------------------
Ag+        vlt non-aq 195°C 100%  U        B2=3.20        1967ETa  (2549) 359
Medium: liquid KSCN
-------------------------------------------------------------------------------
Ag+        ISE NaClO4 21°C 4.25M U        B2=20.23       1967ZFc  (2550) 360
                                          B(AgL(OH))=13.23
-------------------------------------------------------------------------------
Ag+        ISE non-aq 190°C 100%  U        K1=3.2         1966BJa  (2551) 361
Medium: liquid KSCN, 178-204 C
-------------------------------------------------------------------------------
Ag+        ISE non-aq 20°C 100%  U        K1=6.45   B2=11.90  1966THb  (2552) 362
Medium: liquid NH3/NH4NO3
-------------------------------------------------------------------------------
Ag+        ISE non-aq 150°C 100%  U        B2=13.50       1965BFc  (2553) 363
                                          Kso=-10.45
Medium: molten (Li/K)NO3 eutectic, m units
-------------------------------------------------------------------------------
Ag+        ISE non-aq 248°C 100%  U        K1=4.04   B2=8.04   1965TIb  (2554) 364
Medium: molten (Na/K)NO3
-------------------------------------------------------------------------------
Ag+        ISE oth/un 20°C  0.0  U        B2=20.85       1965ZPa  (2555) 365
                                          K3=0.95
                                          KsoKs2=-11.35
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  var  U        B2=20.44       1963ASb  (2556) 366
```

```
                                        B3=21.98
                                        Kso(AgCN(s)=Ag+CN)=-15.84
                                        K=-11.23
K: Kso.K(2AgCN(s)=Ag+Ag(CN)2)
-------------------------------------------------------------------------------
Ag+        sol oth/un 20°C 0.10M U    M                 1963CBa  (2557) 367
                                        K(Ag+Pt(NH3)2L4)=1.37
-------------------------------------------------------------------------------
Ag+        oth KNO3     ?   sat  U                     1962FRc  (2558) 368
                                        K3=1.1
Medium: saturated. Method: freezing point
-------------------------------------------------------------------------------
Ag+        ISE non-aq 246°C 100%  U T      K1=5.36   B2=10.26  1962MBb  (2559) 369
                                        Ks(AgCN(s)+Ag=Ag2CN)=4.90
Medium: 1:1 (x/x) KNO3/NaNO3(liquid); K1=5.34, K2=5.02, K(s)=4.78(286 C)
K1=5.28, K2=4.7, K(s)=4.6(326 C)
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        K1=7.7    B2=13.3   1961SBb  (2560) 370
Medium: diaminoethane
-------------------------------------------------------------------------------
Ag+        ISE non-aq 250°C 100%  U   H    B2=10.87      1956FRb  (2561) 371
                                        Kso(AgCN(s)=Ag+CN)=-8.20
Medium: 1:1 (m/m) NaNO3/KNO3(liquid); DH(B2)=-149.5 kJ mol-1
-------------------------------------------------------------------------------
Ag+        oth none   25°C  0.0  U                     1956KSb  (2562) 372
                                        K=6.53
                                        B(Ag(CN)OH)=13.22
                                        Kso(AgCN(s)=Ag+CN)=-15.64
K: K(Ag+2OH+Ag(CN)2=2(Ag(CN)OH); Method: amperometry
-------------------------------------------------------------------------------
Ag+        oth none   21°C  0.0  U  I                  1954JPa  (2563) 373
                                        K3=0.70
                                        K4=-1.13
Method: ir. K3=0.97, K4=-0.55 at 0.05 to 1.5 M CN
-------------------------------------------------------------------------------
Ag+        ISE oth/un 18°C  var  U        B2=20.7        1949GAb  (2564) 374
                                        K=-11.3
K: Kso.K(AgCN(s)+CN=Ag(CN)2)
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U        B2=19.85       1947RIa  (2565) 375
                                        Ks(AgCN(s)=Ag+CN)=-14.89?
-------------------------------------------------------------------------------
Ag+        ISE oth/un   ?   var  U        B2=21.2        1941BJa  (2566) 376
                                        K3=0.89
                                        B4=ca.22
-------------------------------------------------------------------------------
Ag+        ISE oth/un 15°C  var  U        B2=21.4        1932BDa  (2567) 377
                                        K=-11.29
K: Kso.K(AgCN(s)+CN=Ag(CN)2)
-------------------------------------------------------------------------------
```

```
Ag+        ISE oth/un 18°C 0.01M U                      1930MAa  (2568) 378
                                        K(AgCN(s)=Ag+CN)=-13.34
Medium: KCN
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U        B2=18.42       1930RHa  (2569) 379
                                        K(AgCN(s)=Ag+CN)=-14.15
-------------------------------------------------------------------------------
Ag+        ISE oth/un   ?   var  U        B2=21.06       1904BEa  (2570) 380
                                        K3=0.89
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  var  U                      1904LUa  (2571) 381
                                        K=-11.3
K: Kso.K(AgCN(s)+CN=Ag(CN)2)
-------------------------------------------------------------------------------
Ag+        con oth/un 20°C  dil  U                      1903BOb  (2572) 382
                                        K=-11.65
K: Kso.K(AgCN(s)+CN=Ag(CN)2)
-------------------------------------------------------------------------------
Ag+        ISE oth/un   ?   var  U                      1903EUa  (2573) 383
                                        B2 ca. 20.8
-------------------------------------------------------------------------------
Ag+        ISE oth/un 18°C  var  U                      1895MOa  (2574) 384
                                        K(AgCN(s)=Ag+CN)=-13.0
*******************************************************************************
CO3--                  H2L    Carbonate        CAS 465-79-6  (268)
Carbonate;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C    0  U T H    K1=2.50        1986NPb  (3002) 385
Extrapolation of constants measured at different I to zero ionic strength. D
Also for 90 C K1=2.64;DH=+29.4; for 60 C K1=2.42; DH=+7.5
-------------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C  1.0M C        K1=<1.5        1983MAe  (3003) 386
Additional method: Ag ion selective electrode.
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U                      1935KAa  (3004) 387
                                        Kso(Ag2CO3(s))=-11.09
-------------------------------------------------------------------------------
Ag+        ISE oth/un 18°C 0.10M U                      1930MAa  (3005) 388
                                        Kso(Ag2CO3(s))=-11.3(?)
Method: Ag electrode. Medium: Na2CO3.
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  var  U                      1909SPa  (3006) 389
                                        Kso(Ag2CO3(s))=-11.19
-------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U                      1903ACa  (3007) 390
                                        Kso(Ag2CO3(s))=-11.40
*******************************************************************************
C2N3-                   HL    Dicyanamide      CAS 504-66-5  (2917)
```

Dicyanamide; (NC.N.CN)-

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	var	U		1954SSb	(3468)	391
							K(Ag2L(s)=2Ag+L)=-10.14		

Ligand: cyanamid, CN2--

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	none	18°C	0.0	U		1930BHa	(3469)	392
							K(AgL(s)=Ag+L)=-8.85		

****

C4N3- HL CAS 454-50-2 (2918)
Tricyanomethanide; (C(CN)3)-

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	none	18°C	0.0	U		1930BHa	(3477)	393
							K(AgL(s)=Ag+L)=-10.14		

****

C6N6Co--- H3L Cyanocobaltate (5470)
Hexacyanocobaltate; [Co(CN)6]---

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.0	U		1965ROa	(3482)	394
							Kso(Ag3L)=-25.41		
Ag+	ISE	none	25°C	0.0	U		1959DTa	(3483)	395
							Kso(Ag3L)=-20.07		
							Ks(Ag2TlL)=-15.48		
							Ks(AgTl2L)=-10.12		

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	2.00M	U		1971HFa	(3531)	396
							Kso=-36.84		
							Ks(KAg3L=K+3Ag+L)=-28.97		
Ag+	con	oth/un	?		U		1970BEa	(3532)	397
							Kso=-19.21		
							Ks(KAg3L=K+3Ag+L)=-19.33		
Ag+	ISE	oth/un	25°C	0.0	U		1964RPa	(3533)	398
							Kso(Ag4L)=-44.07		
Ag+	ISE	none	18°C	0.0	U	M	1958DTb	(3534)	399
							Kso=-27.15		

Ks(Ag3TlL)=-23.55
Ks(Ag2Tl2L)=-17.95

Ag+ ISE none 25°C 0.0 U 1938POa (3535) 400
Kso=-40.81

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	con	oth/un	20°C		U	T H	Kso=-18.3	1973BCb (3615)	401

Kso=-17.9(30 C-40 C)

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	none	25°C	0.0	C	IH	B2=7.9 Kso(AgCl)=-9.77	2003WAa (4029)	402

Method: analysis of literature data. DH(Kso)=66.3 kJ mol-1. Also Kso=
-12.82 (methanol), -12.8 (acetonitrile), -10.39 (DMSO). B2=11.9 (DMSO).

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	87°C	100%	U	M	K1=3.65 B2=5.77 B3=6.49 B(Ag(SCN)L)=6.55 B(Ag(SCN)2L)=7.34 B(Ag(SCN)L2)=7.13	1987BPa (4030)	403

Medium: fused acetamide. K(AgSCN+L)=2.97, K(Ag(SCN)2+L)=1.15

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	U	IH	K1=6.85 B2=10.16	1987JPa (4031)	404

Medium: tetrahydrothiophene, 0.1M Bu4NBF4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	C	H	K1=4.95 B2=8.56 K3=0.99	1986AIb (4032)	405

Medium: Pyridine, 0.1 M Et4NClO4; DH(K1)=1.0, DH(K2)=7.6, DH(K3)=-2.6 kJ m-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	C	H	K1=4.95 B2=8.56 B3=9.54 B(2Ag+Cl)=6.92	1986AIb (4033)	406

Medium: DMSO, 0.1 M NH4ClO4. DH(K1)=1.0; DH(B2)=8.6 kJ mol-1; DH(B3)=6.0;
DH(Ag2Cl)=3.0

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	NaCl	25°C	0.00	U	TIH	K1=3.23 B2=5.15 B3=5.04 B4=3.64	1985FRa (4034)	407

DH(K1)=-27.6 kJ mol-1; DH(B2)=-21.3; DH(B3)=-41.8; DH(B4)=-69.9. Also data
15, 35, 60, 100, 150 and 160 C. Kso=-7.44 at 100 C; -6.37 at 150 C.

Ag+ ISE KNO3 0°C 1.00M U M K1=4.97 B2=5.95 1985MMc (4035) 408
mixed complexes with thiourea B(AgLA)= 8.45; with thioacetamide:B(AgLA=9.08)
B(AgL2A)=9.78; with thiourea and thioacetamide B(AgLAB)=12.71

Ag+ ISE KNO3 25°C 1.00M U T HM K1=4.05 B2=4.88 1985MMd (4036) 409
DH(K1)=-44.4 kJ mol-1; DH(B2)=-40.1; DS(K1)=-71.2 J K-1 mol-1; DS(B2)=-41.3
Ternary complexes with: thiourea,thiosulphate,iodide

Ag+ ISE oth/un 25°C var U 1984GOa (4037) 410
Kso(AgCl)=-9.81

Ag+ ISE non-aq 25°C 100% U I 1981CLa (4038) 411
B2eff=25.5
Kso=-23.2
Medium: methyliosbutylketone. Data available for water equilibrated MIBK

Ag+ ISE non-aq 87°C 100% U K1=4.48 B2=6.95 1981GBb (4039) 412
Medium: fused acetamide

Ag+ cal NaClO4 25°C 5.0M C H 1977ATb (4040) 413
Medium: 0.1 M HClO4/4.9 M NaClO4. DH(B3)=-39.2 kJ mol-1, DS(B3)=
-14 J K-1 mol-1; DH(B4)=-62.0, DS(B4)=-105; DH(Kso(AgCl))=62.7, DS=20.

Ag+ sol alc/w 25°C 10% U I K1=3.16 B2= 5.53 1977KDb (4041) 414
B3=3.81
Ks=-10.00
Medium: EtOH/H2O. 0% EtOH: K1=3.22,B2=5.07,B3=5.60, Ks=-9.77. 50% EtOH:
K1=3.96,B2=7.10,B3=6.68, Ks=-10.97. 100% EtOH: K1=5.87,B2=10.72,B3=11.37

Ag+ sol none 100°C 0.0 U T H K1=2.88 B2=4.49 1976SEb (4042) 415
B3=3.85
B4=1.94
Kso=-7.65
Further data also available for T=197, 277 and 353.

Ag+ ISE non-aq 25°C 100% U B2=13.083 1975SAb (4043) 416
B3=15.01
Kso=-12.07
Medium: propylene carbonate/0.56 M tetrahydrothiophene

Ag+ ISE non-aq 25°C 100% U I B2=10.538 1975SAb (4044) 417
B3=12.13
Kso=-9.40
Medium: propylene carbonate/0.56 M tetrahydrothiophene. In PC/1.56 M THT,
B2=9.30, B3=10.74, Kso=-8.30

Ag+ ISE non-aq 25°C 100% U I B2=16.6 1975SAc (4045) 418
Kso=-15.3
B2=13.9 in TMSO

Medium: PC/TMSO, 1.23 M. In dimethylsulfite: Kso=-16.8, B2=14.3.
In ethylene sulfite: B2=18.4, Kso=-18.6. TMSO=Tetramethylene sulfoxide

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Ag+ EMF NaCl 50°C 0.0 U IH 1974DGb (4046) 419
Kso=-10.86
Medium: NaCl,CaCl2(H2O)4,x% NaCl;x=0. Kso=-10.96(x=10), -11.03(x=20);
DH(Kso)=65.48 kJ mol-1(x=0), 66.53(x=10), 68.37(x=20)(x units)

Ag+ sol alc/w 25°C 25% U I B2=6.1 1974DZb (4047) 420
B3=6.5
B4=6.7
B5=5.3
Medium: 25% w/w MeOH/H2O, CsCl. 0% MeOH: B2=5.3, B3=5.8, B4=4.9, B5=5.5

Ag+ EMF non-aq 30°C 100% U K1=2.1 1974JAc (4048) 421
Medium: pyridine, 0.2 M LiClO4; m units

Ag+ dis R4N.X 70°C ? U K1=2.30 B2=4.30 1974NGc (4049) 422
K3=0.30
K4=-0.5
Medium: NH4NO3(H2O)2; m units

Ag+ ISE non-aq 25°C 100% U I B2=17.8 1974SAb (4050) 423
B3=19.6
Kso=-16.2
Medium: 3-Me-2-oxazolidone. I=0 corr. With 0.1 M Pr4NClO4: B2=17.55,
B3=19.28, Kso=-15.93

Ag+ ISE mixed 25°C 80% U I B2=11.60 1974SAc (4051) 424
B3=11.60
Kso=-13.17
Medium: 80% acetone/H2O. In 91% acetone, B2=14.32, B3=14.40, Kso=-14.96.
In 98.5% acetone, Kso=-17.95, B2=19.10, B3=20.37

Ag+ EMF non-aq 87°C 100% U 1973BMc (4052) 425
Kso=-5.55 (m units)
Medium: CH3COOH

Ag+ ISE none 25°C 0.0 U 1973BRa (4053) 426
Kso=-9.7

Ag+ ISE non-aq 25°C 100% U I B2=16.7 1973CKa (4054) 427
Kso=-14.8
Medium: DMF. In MeCN: B2=13.7, Kso=-13.1, K(Ag+NO3)=1.84, K(Et4N+NO3)=0.7

Ag+ ISE non-aq 25°C 100% U B2=12.1 1973CKa (4055) 428
Kso=-10.5
Medium: DMSO. B2=12.1 to 12.5, Kso=-10.4 to -10.9

Ag+ ISE non-aq 350°C 100% U T K1=2.47 1973GBb (4056) 429

Medium:(Na,Ba)NO3 eutectic. K1=2.39(375 C); 2.31(400 C)

Ag+ sol KNO3 163°C 100% U T K1=3.17 B2=6.12 1973GDa (4057) 430
Kso=-9.07
Medium: (K,Ca)NO3. At 178 C: K1=3.09, K2=2.80, Kso=-8.75(x units)
At 198 C: K1=3.05, K2=2.58, Kso=-8.38. DH(K1)=-18.8 kJ mol-1, DH(Kso)=8.8

Ag+ ISE mixed 25°C 10% U I 1973KKh (4058) 431
Kso=-9.90
Medium: 10% w/w PrOH/H2O. Kso=-10.34(50%),-12.30(90%),-14.70(100%). In acetone/H2O: Kso=-10.46(50%),-16.36(100%). DMF/H2O: -10.30(50%),-12.76(100%)

Ag+ ISE oth/un 25°C dil U 1973KPa (4059) 432
Kso=-9.90

Ag+ ISE alc/w 25°C 10% U I 1973KPa (4060) 433
Kso=-10.06
Medium: 10% v/v MeOH/H2O. Kso=-10.35(40%),-10.93(60%),-11.57(90%). Also in EtOH,PrOH,i-PrOH. In acetone:Kso=-9.88(40%).In DMF:Kso=-10.0(10%),-10.6(60%)

Ag+ EMF oth/un 320°C 100% U T K1=2.47 1973LVa (4061) 434
Medium: molten (Li,Na)NO3. K1=2.42(340 C), 2.36(360 C), 2.30(380 C), 2.25(400 C), 2.22(410 C)

Ag+ ISE diox/w 20°C 50% U I 1973NEa (4062) 435
Kso=-11.48
Medium: v/v dioxan/H2O, 0.001 M KCl. Kso=-12.92(70%), -13.94(80%), -14.98(90%)

Ag+ EMF KNO3 25°C 3.0M U 1973PGa (4063) 436
B(AgCl(OH))=4.7

Ag+ ISE non-aq 25°C 100% U TI B2=8.67 1973SSg (4064) 437
Kso=-10.25
Medium: EtCN, 0.1 M (C3H7)4NClO4 and 0.95 M SO2. With 0 SO2: B2=15.94, B3=16.71, Kso=-14.29. With 3.3 M SO2: B2=6.58, Kso=-9.08

Ag+ ISE non-aq ? 100% U 1972BGa (4065) 438
Kso=-11.75
Medium: ethylene glycol

Ag+ ISE oth/un 50°C ? U T H 1972BNa (4066) 439
Kso=-10.66
Medium: Ca(NO3)2(H2O)4. DH(Kso)=75.3 kJ mol-1. Kso=-10.52(55 C),-10.24(60 C) -9.94(70 C), -9.67(80 C)

Ag+ ISE non-aq 350°C 100% U T K1=2.40 1972GBa (4067) 440
Medium:(Na,Ba)NO3 eutectic. K1=2.30 to 2.33(375 C); 2.2(400 C)

Ag+ ISE oth/un 350°C 100% U T K1=2.5 B2=4.30 1972GBb (4068) 441

Medium:(Na,Ba)NO3 eutectic. K1=2.4,K2=1.7(375 C); K1=2.3,K2=1.5(400 C)

Ag+ ISE mixed ? 2.7% U I 1972KPa (4069) 442
Kso=-9.8
Medium: 2.69% acetone/H2O. Kso=-10.0(5.83%),-10.2(9.83%),-10.5(14.2%);
In DMF/H2O: Kso=-10.04(2.52%), -10.32(13.3%), -10.66(25.9%)

Ag+ EMF non-aq 20°C 100% U I 1972NEa (4070) 443
Kso=-15.10
Medium:CH3COOH. In (CH3CO)2O: Kso=-16.34

Ag+ dis NaNO3 150°C 100% U K1=2.5 B2=4.60 1972TIa (4071) 444
Medium: (Li,K)NO3; K1, K2 in m units

Ag+ sol alc/w 25°C 9.5% U I K1=3.59 B2=5.44 1971ABa (4072) 445
Kso=-10.03
Medium: 9.47% w/w MeOH/H2O. 0%: K1=3.31,K2=1.95,Kso=-9.75; 20%: K1=3.83, K2=
=1.99,Kso=-10.27; 34.5%:K1=4.03,K2=2.20,Kso=-10.47; 54%:4.94,2.45,Kso=-11.38

Ag+ sol mixed 25°C 9.6% U I K1=3.36 B2=5.38 1971ABa (4073) 446
Kso=-10.10
Medium; 9.64% w/w acetone/H2O. K1=3.85,K2=2.27,Kso=-10.29(19.8%); K1=4.48,
K2=2.56,Kso=-10.92(34.4%); 4.55,2.99,-10.99(42.08%); 5.69,3.44,-12.13(54.2%)

Ag+ sol diox/w 25°C 8.2% U I K1=3.67 B2=5.69 1971ABa (4074) 447
Kso=-10.11
K1=3.80,K2=2.25,Kso=-10.30(20.5% dioxan); K1=4.17,K2=2.54,Kso=-10.61(28.5%);
K1=4.58,K2=2.94,Kso=-11.02(40.8%); K1=5.92,K2=3.63,Kso=-12.36(60.7%)

Ag+ ISE KNO3 25°C 0.01M U I 1971BBg (4075) 448
Kso=-9.76
Kso=-9.76(I=0), -9.77(I=0.001), -9.77(I=0.005)

Ag+ EMF non-aq 30°C 100% U B2=10.6 1971BPb (4076) 449
Kso=-10.4
Medium: 2-pyrrolidinone, 0.1 M Et4NClO4; K1(H+Cl)=0.8

Ag+ EMF non-aq 350°C 100% U T 1971GJa (4077) 450
Kso=-4.02
Medium: (Na,Ba)NO3 eutectic. logKso=2.376-3980/T

Ag+ sol alc/w 20°C 50% U I 1971NEa (4078) 451
Kso=-10.48
Medium:50% w/w MeOH/H2O. Kso=-11.14(70%),-11.68(80%),-12.10(90%),-13.0(100%)
In propanol/H2O: Kso=-10.52(50%),-11.34(70%),-12.82(90%),-14.36(100%)

Ag+ ISE oth/un 110°C 0.40M U I K1=3.41 1971PEe (4079) 452
Medium:H2O/NH4NO3; (0.4 mol H2O/mol NH4NO3). K1=3.38(0.5 mol), 3.36(0.6mol),
3.32(0.8 mol), 3.29(1.0 mol), 3.26(1.2 mol), 3.25(1.4 mol), 3.22(2 mol)

```
Ag+        ISE NaNO3  150°C 100%  U T      K1=3.33       1971PEf  (4080) 453
                                           K(Ag+AgL)=2.9
At 160 C: K1=3.38(m units)
-------------------------------------------------------------------------------
Ag+        con non-aq 20°C 100%  U        B2=11.7       1970DMa  (4081) 454
                                           B(Ag2Cl)=10.3
                                           Kso=-10.4
Medium: DMSO, 0.1 M Et4NClO4
-------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U                      1970FLa  (4082) 455
                                           Kso=-9.747
-------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  10%  U  I                   1970FLa  (4083) 456
                                           Kso=-9.992
Medium: 10 % w/w MeOH/H2O. Kso=-10.233(20.2%), -10.566(33.4%), -10.83(43%)
-------------------------------------------------------------------------------
Ag+        ISE diox/w 25°C 100%  U                      1970FLa  (4084) 457
                                           Kso=-10.223
-------------------------------------------------------------------------------
Ag+        sol R4N.X  55°C    ?  U T      K1=2.41       1969BBe  (4085) 458
                                           Kso=-7.95
Medium: NH4NO3(H2O)2. K1=2.38, Kso=-7.60(70 C); K1=2.34, Kso=-7.30(85 C)
-------------------------------------------------------------------------------
Ag+        ISE non-aq 30°C 100%  U  I     B2=20.3       1969BBg  (4086) 459
                                           Kso=-18.5
Medium: sulfolane. B2=19.8, Kso=-18.1 in sulfolane, I=0.1
-------------------------------------------------------------------------------
Ag+        ISE non-aq 22°C 100%  U        B2=20.9       1969CLa  (4087) 460
                                           Kso=-20.0
Medium: propene carbonate
-------------------------------------------------------------------------------
Ag+        ISE NaNO3  80°C  1.0M U T      B2=4.47       1969GUa  (4088) 461
B2=4.34(90 C). Kso=-8.42(50 C), -8.26(60 C), -7.81(70 C), -7.37(90 C)
-------------------------------------------------------------------------------
Ag+        ISE non-aq 98°C 100%  U        B2=6.30       1969GUa  (4089) 462
                                           B3=6.98
                                           Kso=-7.71
Medium: acetamide, 1 M NaNO3
-------------------------------------------------------------------------------
Ag+        oth none   50°C  0.0  U T      K1=3.17   B2=5.02   1969HEa  (4090) 463
                                           B3=5.08
                                           B4=5.38
Evaluated from literature data. At 100 C: values: 2.99, 4.71, 4.88, 5.26;
150 C: 2.92, 4.57, 4.85, 5.31
-------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  U        K1=7.08   B2=11.28  1969MKe  (4091) 464
                                           K(Ag2L+L=Ag2L2)=5.81
Medium: pyridine
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U TI     K1=6.8    B2=11.73  1969SBd  (4092) 465
```

B3=13.1
Kso=-10.279
Medium: DMSO, 0.1 M LiClO4 or Et4NClO4. I=0 corr: K1=7.3, B2=12.23, B3=13.1, Kso=-11.78. In DMSO, 0.1 M NH4NO3: K1=6.0, B2=10.6, B3=12.40, Kso=-9.6

Ag+ EMF non-aq 148°C 100% U T H 1969SMh (4093) 466
Kso=-7.30
Medium: molten (Li,K)NO3(43% Li). Kso=-7.27(150 C), -6.80(172 C),-
-6.37(195 C), -6.06(211.5 C). Also DH,DS,DCp,m units

Ag+ ISE non-aq 25°C 100% U B2=17.73 1969VKa (4094) 467
Kso=-14.45
Medium: N-methyl-2-pyrrolidone

Ag+ ISE non-aq 20°C 100% U B2=19.5 1968BBb (4095) 468
Kso=-19.2
Medium: CH3NO2

Ag+ ISE non-aq 25°C 100% U 1968BCc (4096) 469
Medium: Propene carbonate. Formulae for K1, B2, B3, Kso as a function of H2O

Ag+ sol non-aq 45°C 100% U T H K1=2.5 1968BDd (4097) 470
Kso=-9.17
Medium:D2O. Kso=-9.88(25 C), K1=3(25 C). DH(Kso)=64.8 kJ mol-1

Ag+ sol non-aq 25°C 100% U T H K1=3.81 1968BDf (4098) 471
Kso=-8.28
Medium:H2NCHO. K1=3.79(15 C), Kso=-8.60(15 C), DH(Kso)=52.3 kJ mol-1
By calorimetry: DH(Kso)=46.4(15,25C)

Ag+ ISE non-aq 25°C 100% U K1=12.11 B2=16.295 1968BUd (4099) 472
B3 < 17.7
Kso=-14.49
Medium: DMF, 0.1 M Et4NClO4

Ag+ sol oth/un 55°C 100% U T K1=2.40 B2=4.55 1968GAa (4100) 473
K3=0.69
Kso=-8.00
Medium:NH4NO3(H2O)2. At 70.1 C:Kso=-7.61,K1=2.33,K2=2.03,K3=0.58, m units
At 85 C:Kso=-7.31,K1=2.31,K2=1.95,K3=0.47

Ag+ dis non-aq 150°C 100% U K1=2.49 B2=4.59 1968GMb (4101) 474
Medium: (Li/K)NO3. m units

Ag+ ISE non-aq 350°C 100% U H 1968GSf (4102) 475
Kso=-4.10
Medium: (K/Ba)NO3 eutectic. DH=80.1 kJ mol-1

Ag+ ISE non-aq 350°C 100% U T K1=2.60 B2=4.76 1968GSh (4103) 476
K(Ag+AgL)=2.1

Medium: (K/Ba)NO3. At 370 C: K1=2.54, K2=2.10, K(AgL+Ag)=2.0
At 390 C:K1=2.46, K2=2.0, K(AgL+Ag)=2.0

Ag+ sol non-aq 480°C 100% U 1968KUb (4104) 477
Kso=-2.85
Medium: molten KNO3

Ag+ sol non-aq 24°C 100% U 1968LAc (4105) 478
B(Ag2L)==7.73
B(Ag3L)=7.32
Medium: DMSO, 0.5 M Et4NClO4

Ag+ sol non-aq 200°C 100% U T H K1=2.06 1968MGb (4106) 479
Kso=-6.17
Medium: (Li/K)NO3 eutectic. Kso=-7.36(150C),-6.99(161C),-6.64(176C),-6.33
(190C), DH=92.8 kJ mol-1. K1=2.48(150C),2.38(161C),2.25(176C),2.13(190C)

Ag+ ISE mixed 25°C 20% U I 1968MOa (4107) 480
Kso=-10.26
Medium:20% Me2CO/H2O. Kso=-10.94(40%),-11.90(60%),-13.61(80%). In DMSO/H2O:
Kso=-9.81(20%),-9.86(40%),-9.82(60%,80%)

Ag+ sol alc/w 25°C 50% U I K1=4.64 B2=7.36 1967ABd (4108) 481
Kso=-11.11
Medium:50% EtOH. K1=3.32(0%),3.66(10%),3.79(20%),4.27(40%); B2=5.26(0%),
5.58(10%),5.82(20%),6.82(40%); Kso=-9.76(0),-10.04(10),-10.22(20),-10.77(40)

Ag+ ISE non-aq 25°C 100% U B2=16.3 1967AKa (4109) 482
Kso=-14.5
Medium: DMF. In MeCN:Kso=-12.9,B2=13.4; in Me2NCOMe: Kso=-11.9, B2=16.1 etc

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Ag+ ISE non-aq 438°C 100% U K1=4.72 1967BLb (4110) 483
Medium: molten NaNO3. x units

Ag+ ISE oth/un 25°C 1.0M U 1967BPf (4111) 484
B4=5.16

Ag+ ISE non-aq 25°C 100% U K1=15.15 B2=20.87 1967BUa (4112) 485
B3=23.39
Kso=-19.87
Medium: propene carbonate, 0.1 M EtNClO4. Neglecting ion pair formation:
K1=15.15, B2=21.18, B3=23.4, Kso=-20.18

Ag+ ISE non-aq 264°C 100% U T H 1967FBb (4113) 486
Kso=-5.70
Medium:(Li/Na)ClO4. Kso=-6.42(220 C), 5.94(250 C)
DH(Kso)=80.7 kJ mol-1

Ag+ ISE diox/w 25°C 20% U 1967FLa (4114) 487
Kso=-10.216

Ag+ ISE alc/w 25°C 10% U I 1967FLb (4115) 488
Kso=-9.963
Medium: 10% MeOH. Kso=-10.780 in 43.12% MeOH, m units

Ag+ ISE non-aq 75°C 100% U T B2=9.42 1967RPc (4116) 489
Kso=-8.49
Medium: DMSO. Kso=-9.66(25 C),-9.25(45 C),8.92(55 C); B2=10.59(25 C), 10.23(45 C),9.92(55 C)

Ag+ sol non-aq 275°C 100% U T B2=3.21 1967SPc (4117) 490
B3=2.65
B(Ag2L)=2.79
B(Ag3L)=2.54
Medium: (Na/K)NO3. At 300 C:B2=3.04, B3=2.38, B(Ag2L)=2.71, B(Ag3L)=2.08

Ag+ ISE non-aq 350°C 100% U TI K1=2.62 1966BBg (4118) 491
Medium:(K/Ca)NO3, K1=2.71(320 C). K1=2.53(350 C) in (K/Sr)NO3

Ag+ oth non-aq 210°C 100% U 1966JRa (4119) 492
B(Ag2Cl)=1.08
Method:freezing point. Medium: molten AgNO3. x units

Ag+ ISE non-aq 23°C 100% U B2=12.0 1966LIb (4120) 493
Kso=-10.4
Medium: DMSO, 0.1 M Et4NClO4. In MeCN: Kso=-12.4,B2=13.0. In MeOH: Kso=-13.0 B2=7.9, In acetone: Kso=-16.4, B2=16.7. In EtNO2: Kso=-21.1, B2=22.3

Ag+ dis oth/un 0.0 U 1966LKa (4121) 494
Kd(Ag+2Cl+H+3TBP(C6H6))=5.39

Ag+ ISE non-aq 350°C 100% U T K1=2.60 1966SEa (4122) 495
Medium:(K/Ba)NO3 eutectic. K1=2.51(370 C), 2.46(390 C)

Ag+ ISE non-aq 350°C 100% U 1965ASa (4123) 496
Kso=-3.8
Medium: (Na/K)NO3 eutectic, m units

Ag+ ISE non-aq 150°C 100% U 1965BFc (4124) 497
Kso=-7.4
Medium: (Li/K)NO3 eutectic, m units

Ag+ dis oth/un 0.0 U 1965KLb (4125) 498
Kd(H+Ag+2Cl+3TBP(C6H6))=5.37

Ag+ ISE non-aq 25°C 100% U 1965MBd (4126) 499
Kso=-4.04
Medium: diaminoethane

Ag+ sol NaClO4 20°C 4.0M U K1=3.45 B2=5.67 1964AJa (4127) 500

B3=6.00
B4=6.04
Kso=-10.40

Ag+ ISE non-aq 240°C 100% U K1=2.93 1964BBc (4128) 501
Medium: molten MNO3. x units

Ag+ cal non-aq 320°C 100% U H 1964HKb (4129) 502
Medium: molten (Na/K)NO3 eutectic. DHso=79.0 kJ mol-1

Ag+ sol non-aq 18°C 100% U B2=8.92 1964PKc (4130) 503
Kso=-10.39
Medium:MeNHCHO. In medium NH2CHO: Kso=-8.28

Ag+ sol non-aq 600°C 100% U 1964SFb (4131) 504
Kso=-6.34
K(AgCl(s)=AgCl)=-3.89
K(AgCl(s)+Cl=AgCl2)=-1.80
Ks(AgCl(s)+Ag)=-1.96
Medium: molten NaNO3. x units

Ag+ ISE non-aq 713°C 100% U T K1=2.70 1964TBa (4132) 505
Medium: molten CsNO3.Data also in different nitrate melts

Ag+ ISE non-aq 225°C 100% U K1=1.98 B2=1.2 1964THc (4133) 506
Medium: (Li/K)NO3, m units

Ag+ sol NaClO4 25°C 0.50M U I 1964WGa (4134) 507
Kso=-9.62
Medium: HClO4. Kso=-10.05(I=3 M)

Ag+ ISE non-aq 350°C 100% U T H 1963BBd (4135) 508
Kso(AgCl(s))=-6.06
Medium: liqiud KNO3, I=0 corr. Kso=-5.86(370 C), -5.72(385 C), -5.55(402 C), -5.26(436 C); DH(Kso)=80.3 kJ mol-1. x units ?

Ag+ ISE non-aq 250°C 100% U T 1963RSc (4136) 509
Kso=-5.27
Medium: liquid (Na/K)NO3. Kso=-4.36(320 C). Kso=2.47-4050/T
Ks(AgCl(s)=AgCl)=-8.47+3000/T, K1=7000/T-10.85

Ag+ ISE non-aq 148°C 100% U T 1963THa (4137) 510
Kso=-9.31
Medium: liquid (Li,K)NO3. Kso=-8.84(172 C), -8.34(194.5 C), -8.03(211.5 C)

Ag+ ISE non-aq 385°C 100% U K1=2.66 B2=4.89 1962BLb (4138) 511
K(AgL+Ag)=1.3
Medium: liquid KNO3, x units

Ag+ ISE non-aq ? 100% U 1962BSa (4139) 512

Kso(AgCl(s))=-16.5
Medium: THF, 0.3 M LiClO4

Ag+ ISE non-aq 350°C 100% U T K1=2.74 B2=5.07 1962MBd (4140) 513
Medium: liquid KNO3. K1=2.50, K2=2.07(436 C), x units

Ag+ sol NaCl 18°C var U K1=3.44 B2=5.30 1962MIb (4141) 514
B3=5.48
B4=5.40
Kso((AgCl(s))=-10.06
Ks(AgCl(s)=AgCl)=-6.63
Ks(AgCl(s)+Cl=AgCl2)=-4.76, Ks(AgCl(s)+2Cl=AgCl3)=-4.58,
Ks(AgCl(s)+3Cl=AgCl4)=-4.67

Ag+ ISE non-aq 350°C 100% U I 1961ASa (4142) 515
Kso=-3.75
Medium: NaNO3(liquid). Kso=-3.79 in KNO3, Kso=3.82 in (Na,K)NO3(liquid)

Ag+ sp non-aq 25°C 100% U K1=4.08 1961BOa (4143) 516
Medium: pyridine

Ag+ ISE non-aq 370°C 100% U T H K1=1.70 B2=2.93 1961DGc (4144) 517
Medium: KNO3(l1quid). K1=1.45, K2=1.08 (436 C). DH(K1)=-33.3 kJ mol-1,
DH(K2)=-20.6

Ag+ ISE non-aq 333°C 100% U T H K1=1.55 B2=2.68 1961DGc (4145) 518
Medium: (Na,K)NO3(liquid). K1=1.45, K2=0.95(374 C). DH(K1)=-18.4 kJ mol-1,
DH(K2)=-32.3

Ag+ ISE non-aq 374°C 100% U I K1=1.25 B2=2.08 1961GDa (4146) 519
Medium: liquid NaNO3. In liquid KNO3 K1=1.65, K2=1.26. Data also in mixtures
---
Ag+ ISE non-aq 233°C 100% U T K1=3.02 1961HBb (4147) 520
Medium: (NaK)NO3(liquid). K1=2.81(278 C), 2.48(385 C), 2.26(479 C),
2.12(528 C), x units

Ag+ sol NaClO4 25°C 0.10M U K1=3.08 B2=5.08 1961KOc (4148) 521

Ag+ ISE R4N.X 25°C 1.0M U 1961LPa (4149) 522
Kso(AgCl(s))=-9.31

Ag+ sol non-aq 280°C 100% U K1=1.94 B2=2.80 1961OKa (4150) 523
Medium: (NaK)NO3(liquid), m units

Ag+ ISE non-aq 25°C 100% U K1=3.54 1961SBb (4151) 524
Medium: diaminoethane

Ag+ sol NaCl 300°C var U B2=4.3 1960GAb (4152) 525
Kso(AgCl(s))=-5.32
Ks(AgCl(s)+Cl=AgCl2)=-1

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-------------------------------------------------------------------------------
Ag+        ISE non-aq 331°C 100%  U T      K1=2.44       1960HBa  (4153) 526
Medium: KNO3(liquid). K1=2.35(364 C), 2.31(385 C), 2.25(402 C), 2.20(423 C),
2.16(438 C), 2.04(500 C). x units
-------------------------------------------------------------------------------
Ag+        cal non-aq 158°C 100%  U   H                 1960JMa  (4154) 527
                                      Kso(AgCl(s))=-7.56
Medium: (Li,K)NO3(liquid). DH(Kso)=79.1 kJ mol-1, DS=39 J K-1 mol-1
-------------------------------------------------------------------------------
Ag+        sol none   20°C  0.0  U        K1=3.30       1960LIa  (4155) 528
                                      B(Ag2Cl)=4.60
                                      B(Ag3Cl)=4.96
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U        B2=5.24       1957CHd  (4156) 529
                                      B4=6.14
-------------------------------------------------------------------------------
Ag+        sol none   18°C  0.0  U        K1=3.41   B2=5.29   1957LIa  (4157) 530
                                      K3=-0.05
                                      Kso(AgCl(s))=-10.05
-------------------------------------------------------------------------------
Ag+        ISE non-aq 250°C 100%  U   H                 1956FRb  (4158) 531
                                      Kso(AgCl(s))=-5.28
Medium: (Na/K)NO3(liquid). DH(Kso)=76.6 kJ mol-1,DS=42.2 J K-1 mol-1, m unit
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  var  U                     1956KLa  (4159) 532
                                      Kso(AgCl(s))=0.40-3000/T
15-80 C. DH(Kso)=57.3 kJ mol-1 (misprint ?)
-------------------------------------------------------------------------------
Ag+        con none   25°C  0.0  U                     1955DJb  (4160) 533
                                      Kso(AgCl(s))=-9.75
-------------------------------------------------------------------------------
Ag+        sol NaCl   25°C  var  U        B2=5.34       1955KNa  (4161) 534
                                      K3=0.37
                                      K4=-0.41
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  var  U  I     B2=5.34       1955KNa  (4162) 535
                                      K3=0.31
                                      K4=-0.42
Medium: HCl. In NaCl B2=5.49
-------------------------------------------------------------------------------
Ag+        ix  none   30°C  0.0  U        K2=2.48       1955MAa  (4163) 536
                                      K3=0.88
                                      K4=-0.92
-------------------------------------------------------------------------------
Ag+        con none   25°C  0.0  U T                   1954GMa  (4164) 537
                                      Kso(AgCl(s))=-9.75
I=0 corr. Kso=-10.59(5C), -10.15(15C), -9.38(35 C), -9.03(45 C), -8.67(55 C)
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  var  U  I     K1=3.52   B2=5.40   1954KTa  (4165) 538
                                      K3=0.23
```

K4=-0.40
K(AgCl(s)=AgCl)=-6.24
K(AgCl(s)+Cl=AgCl2)=-4.35
Ks(AgCl(s)+2Cl=AgCl3)=-4.12. Ks(AgCl(s)+3Cl=AgCl4)=-4.52. Also B(Ag2Cl)=5.20 B(Ag3Cl)=5.45. Also values in EtOH/H2O, MeOH, acetone

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Ag+ sol oth/un 20°C var U 1954KTa (4166) 539
B3=5.59
K4=-0.51
Medium HCl

Ag+ sol NaClO4 25°C 5.0M U I K1=3.70 B2=5.62 1954KTa (4167) 540
K3=0.78
K4=-0.32
I=0.2 M NaClO4: B2=4.87

Ag+ sol NaClO4 25°C 5.0M U I K1=3.08 B2=5.40 1953BLb (4168) 541
K3=0.75
K4=-0.85
Kso(AgCl(s))=-10.10
Ks(AgCl(s)=AgCl)=-7.00
Ks(AgCl(s)+Cl=AgCl2)=-4.70, Ks(AgCl(s)+2Cl=AgCl3)=-3.85, Ks(AgCl(s)+3Cl=AgCl4)=-4.52. Data also at I=0.2 and I=0 corr. and other values

---

Ag+ con none 25°C 0.0 U 1952GMa (4169) 542
Kso(AgCl(s))=-9.75

Ag+ sol none 25°C 0.0 U T H K1=3.31 B2=5.25 1952JMc (4170) 543
Ks(AgCl(s)=AgCl)=-6.44
Ks(AgCl(s)+Cl=AgCl2)=-4.51
Kso(AgCl)=-9.74
I=0 corr. 15 C: K1=3.36, K2=1.97. 35 C: K1=3.23, K2=1.91
DH(K1)=-11 kJ mol-1, DS=25 J K-1 mol-1; DH(K2)=-5.0, DS(K2)=21

Ag+ sol NaClO4 25°C 5.0M U 1952LEb (4171) 544
B3=6.15
K4=-0.83
Ks(AgCl(s)+2Cl=AgCl3)=-3.82
Ks(AgCl(s)+3Cl=AgCl4)=-4.52
By Ag electrode B2=6.20, K4=-1.16, Kso=-9.98

Ag+ sol oth/un 25°C dil U B2=5.66 1951BAa (4172) 545

Ag+ con none 25°C 0.0 U 1949CJa (4173) 546
Kso(AgCl(s))=-9.74

Ag+ sol none 25°C 0.0 U 1942GNa (4174) 547
Ks(AgCl(s)+2Cl=AgCl3)=-3.89

Ag+ sol oth/un 25°C var U H 1941ESa (4175) 548

B4=5.90
Medium HCl. DH(B4)=-59 kJ mol-1. Alternative value: B4=5.23

Ag+ ISE none 25°C 0.0 U T H 1938OBa (4176) 549
Kso(AgCl(s))=-9.749
I=0 corr. DH(Kso)=65.5 kJ mol-1, DS=33.1 J K-1 mol-1. Kso=-10.595(5 C), -10.152(15 C), -9.381(35 C), -9.043(45 C)

Ag+ oth none 25°C 0.0 U 1938PSa (4177) 550
Kso(AgCl(s))=-9.79
Method: tyndallometry,nephelometry, I=0 corr.

Ag+ sol none 25°C 0.0 U 1936PHa (4178) 551
Ks(AgCl(s)=AgCl)=-6.85
K(AgCl(s)+Cl=AgCl2)=-4.56

Ag+ ISE none 25°C 0.0 U 1935BMa (4179) 552
Kso(AgCl)=-9.76

Ag+ con none 25°C 0.0 U 1933DKa (4180) 553
Kso(AgCl)=-9.72

Ag+ ISE none 25°C 0.0 U 1933HJa (4181) 554
Kso(AgCl)=-9.71

Ag+ oth none 25°C 0.0 U 1932NEa (4182) 555
Kso(AgCl)=-9.79
Method:y tyndallometry,nephelometry, I=0 corr.

Ag+ ISE oth/un 20°C var U 1930BRa (4183) 556
Kso(AgCl)=-9.79

Ag+ EMF oth/un 25°C dil U T 1930HKa (4184) 557
Kso(AgCl)=-9.74
Kso=-10.12(15 C), -9.21(40 C)

Ag+ ISE alc/w 25°C 100% U 1929BHa (4185) 558
Kso(AgCl)=-13.05
Medium: MeOH

Ag+ ISE none 16°C 0.0 U 1927CAa (4186) 559
Kso(AgCl)=-10.03

Ag+ sol oth/un 25°C var U B2=5.64 1921FCa (4187) 560
K(AgCl(s)=AgCl)=-6.21
K(AgCl(s)+Cl=AgCl2)=-4.47

Ag+ con none 18°C 0.0 U T 1910MEa (4188) 561
Kso(AgCl)=-9.96
I=0 corr. Kso=-8.88(50 C), -7.67(100 C)

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--------------------------------------------------------------------------------
Ag+        con oth/un 100°C  dil  U                    1906BOa  (4189) 562
                                      Kso(AgCl)=-7.63
--------------------------------------------------------------------------------
Ag+        sol KCl    25°C  4.0M U                    1904BEa  (4190) 563
                                      B4=5.70
--------------------------------------------------------------------------------
Ag+        con oth/un 20°C  dil  U                    1903BOb  (4191) 564
                                      Kso(AgCl)=-9.95
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  var  U                    1900THa  (4192) 565
                                      Kso(AgCl)=-9.70
--------------------------------------------------------------------------------
Ag+        con oth/un 26°C  dil  U T                  1893HOa  (4193) 566
                                      Kso(AgCl)=-9.48
Kso=-10.02(13.8 C)
********************************************************************************
ClO3-                  HL    Chlorate         CAS 7790-93-4  (971)
Chlorate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        con none   25°C  0.0  U        K1=0.22        1947JOa  (6023) 567
********************************************************************************
ClO4-                  HL    Perchlorate      CAS 7001-90-3  (287)
Perchlorate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        dis non-aq 25°C 100%  C        K1=5.05        2001DGa  (6123) 568
Medium: dichloromethane
--------------------------------------------------------------------------------
Ag+        con mixed  25°C  20%  C        K1=0.80        1994SSb  (6124) 569
Medium:20% w/w propylene carbonate/ethylene carbonate.
--------------------------------------------------------------------------------
Ag+        con none   30°C  0.0  C  I     K1=-0.10       1990GKd  (6125) 570
Also data for 20-100% w/w DMSO/H2O.
--------------------------------------------------------------------------------
Ag+        con none   30°C  0.0  C  I     K1=-0.08       1986SKf  (6126) 571
Data for 0.001-0.008 M AgBrO3 in 0-100% AN/H2O or MeOH/AN mixtures.
In 100% acetonitrile, K1=1.30
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  95%  U  I     K1=3.25        1983MSa  (6127) 572
Medium: THF/H2O mixtures. Proportion of THF varied from 95% to 77% (w/w)
--------------------------------------------------------------------------------
Ag+        EMF mixed  25°C 0.10M U  I     K1=3.8         1970DCa  (6128) 573
Medium: dimethoxy-1,2-ethane, 0.1 M H2O. K1=4.0(H2O concentration:0.01)
--------------------------------------------------------------------------------
Ag+        dis NaClO4 25°C  3.0M U                    1960ADa  (6129) 574
Kd(Ag+2A(benzene)+L=AgLA2(benzene). A=quinoline
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```
--------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  U  I     K1=3.06        1958GLb  (6130) 575
Medium: cyclohexanone. In i-BuOH K1=2.83. Data also in mixtures
In Me2CO: K1=3.27
********************************************************************************
CrO4--                H2L    Chromate         CAS 7738-94-5  (2382)
Chromate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        oth none   35°C 0.00  U T H                  1971JLa  (6454) 576
                                          Kso=-11.24
5 C: Kso=-12.34; 25 C: Kso-11.56; 45 C: Kso=-10.95; 60 C: Kso=-10.57;
80 C: Kso=-10.14. DH(Kso)=93.59-3.93x10-5T**2, DS=209.79-0.79T (in kilocal)
--------------------------------------------------------------------------------
Ag+        ISE non-aq 357°C 100%  U T      K1=1.69       1963AHa  (6455) 577
Medium: KNO3(liquid);K1=1.62(377 C),1.58(410 C),1.54(450 C),1.51(490 C);
in x units
--------------------------------------------------------------------------------
Ag+        ISE oth/un 357°C 100%  U T      K1=1.69       1963AHa  (6456) 578
Medium: KNO3(liquid); K1=1.62(377 C),1.58(410 C),1.54(450 C),1.51(490 C)
--------------------------------------------------------------------------------
Ag+        cal oth/un 158°C 100%  U   H                  1960JMa  (6457) 579
                                          Kso=-7.96
Medium: (Li,K)NO3(liquid,eutectic)  DH(Kso)=70 kJ mol-1, DS=8 J K-1 mol-1
--------------------------------------------------------------------------------
Ag+        con none   25°C  0.0  U                      1957HNa  (6458) 580
                                          Kso=-11.61
--------------------------------------------------------------------------------
Ag+        ISE oth/un 250°C 100%  U                      1956FRb  (6459) 581
                                          Kso=-6
Medium: (NaK1)NO3(liquid);in m units
--------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U T H                  1954PAa  (6460) 582
                                          Kso=-11.89
DH(Kso)=60.7 kJ mol-1(25 C); Kso=-12.10(20 C),-11.72(30 C),-11.39(40 C)
--------------------------------------------------------------------------------
Ag+        ISE none   20°C  0.0  U                      1941MUa  (6461) 583
                                          Kso=-12.15
--------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U                      1935CMa  (6462) 584
                                          Kso=-11.89
--------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U                      1935CMa  (6463) 585
                                          Kso=-11.81
--------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U                      1935CMa  (6464) 586
                                          Kso=-11.95
--------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U                      1932HJa  (6465) 587
```

```
                                        Kso=-11.39
--------------------------------------------------------------------------------
Ag+        con none   18°C  0.0  U T                    1923BOa  (6466) 588
                                        Kso=-11.80
Kso=-12.52(0.26 C),-11.92(14.8 C),-11.32(30.8 C),-11.07(37.3 C),-10.55(75 C)
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  dil  U                    1907SHa  (6467) 589
                                        Kso=-11.05
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  dil  U                    1905SAb  (6468) 590
                                        Kso=-11.58
********************************************************************************
F-                    HL    Fluoride         CAS 7644-39-3  (201)
Fluoride;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 1.00M C  I     K1=-0.52       1984HCa  (6627) 591
Also in 1.0 M NaNO3 (K1=-1.0) and 1.0 M KNO3 (K1=-0.39).
--------------------------------------------------------------------------------
Ag+        ISE NaNO3  16°C 0.50M U        K1=-0.4        1970BOa  (6628) 592
--------------------------------------------------------------------------------
Ag+        EMF non-aq  0°C 100%  U        K1=1.06        1966CPb  (6629) 593
Medium:HF
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 0.50M U T H                   1961CPc  (6630) 594
                                        K(Ag+HF=AgF+H)=-0.17
*K1=-0.11(15C), *K1=-0.25(35C). At I=0 corr: K1=0.38
DH(K1)=-12 kJ mol-1, DS=-42J K-1 mol-1
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 0.50M U TIH    K1=-0.19       1955PAa  (6631) 595
K1=-0.12(15 C), K1=-0.26(35 C). DH(K1)=-10.0 kJ mol-1, DS=-38 J K-1 mol-1
At I=0 corr: K1=0.36, DS(K1)=-29
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 1.00M U        K1=-0.32       1952LMa  (6632) 596
********************************************************************************
FClBrI                HL                        (541)
Halides, comparative (for book data under ligand 80)
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE non-aq 20°C 100%  U        B2=19.5        1968BBb  (7380) 597
                                        Kso(AgCl)=-19.2
Medium:MeNO2, 0.1 M Et4NClO4. Kso=-19.7(Br),-20.5(I),-16.9(SCN),<-24(CN);
B2=19.7(Br),22.0(I),16.4(SCN),>34(CN)
--------------------------------------------------------------------------------
Ag+        ISE non-aq 438°C 100%  U                    1967BLb  (7381) 598
                                        K(AgCl2+AgBr2=2AgClBr)=0.71
Medium: molten NaNO3
--------------------------------------------------------------------------------
```

```
Ag+        sol NaClO4 25°C  7.0M U    M                 1962FSb  (7382) 599
                                     B(AgCl2I)=7.57
                                     B(AgBr2I)=12.31
                                     B(AgBrI2)=13.47
                                     B(AgBr(I3))=13.83
-------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U    M                 1957CHc  (7383) 600
                                     B(AgClBr3)=9.48
                                     B(AgCl3Br)=7.91
*******************************************************************************
H2O                     L    Water           CAS 7732-18-5  (6115)
Water
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        oth non-aq 25°C 100%  U        K1=0.70   B2=0.85   1974BLa  (7567) 601
Method:partial pressure. Medium:propene carbonate. By N.M.R., K1=0.68
-------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        K1=0.0         1924LAa  (7568) 602
Medium: EtOH
*******************************************************************************
I-                     HL    Iodide          CAS 10034-85-2  (20)
Iodide;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  C  IH    B2=14.8        2003WAa  (7691) 603
                                     Kso(AgCl)=-15.96
Method: analysis of literature data. DH(Kso)=112.5 kJ mol-1. Also Kso=
-17.7 (methanol), -14.5 (acetonitrile), -12.0 (DMSO). B2=13.0 (DMSO).
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I     K1=10.60  B2=15.75  1994GSa  (7692) 604
                                     K3=0.85
                                     B3=16.60
                                     B(Ag2L4)=32.41
                                     B(Ag5L7)=77.70
Medium: DMF. B(Ag6L8)=91.39
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I     K1=7.97   B2=12.72  1994GSa  (7693) 605
                                     B(Ag2L4)=27.26
                                     B(Ag4L6)=51.63
                                     B(Ag5L7)=64.63
                                     B(Ag6L8)=76.31
Medium: DMSO
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C        K1=21.44       1988CCd  (7694) 606
Medium: propylene carbonate
-------------------------------------------------------------------------------
Ag+        ISE non-aq 185°C 100%  M        K1=0.42   B2=0.80   1988JHb  (7695) 607
Medium: molten KSCN. K1=mol-1 kg
```

```
-------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  U        B2=21.59       1987CCb  (7696) 608
                                          B3=23.85
                                          *B(3,4)=64.62
                                          *B(3,6)=70.75
                                          *B(8,1,2)=183.24
Medium: propylene carbonate
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  IH    K1=7.86   B2=11.27  1987JPa  (7697) 609
Medium: tetrahydrothiophene, 0.1M Bu4NBF4
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C   H    K1=6.87   B2=10.07  1986AIb  (7698) 610
Medium: Pyridine, 0.1 M Et4NClO4; DH(K1)=-12.3, DH(K2)=3.8 kJ mol-1
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C   H    K1=6.87   B2=10.08  1986AIb  (7699) 611
                                          B(Ag2+I)=9.12
Medium: DMSO, 0.1 M NH4ClO4. DH(K1)=-12.3; DH(B2)=-8.5 kJ mol-1;
DH(Ag2I)=-13.0
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        K1=7.97   B2=12.72  1985GAc  (7700) 612
                                          B(Ag2L4)=27.26
                                          B(Ag4L6)=51.83
                                          B(Ag5L7)=64.63
                                          B(Ag6L8)=76.31
Medium: DMSO, 0.5 M KNO3.
-------------------------------------------------------------------------------
Ag+        ISE KNO3    0°C 1.00M U        K1=9.47        1985MMc  (7701) 613
-------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 1.00M U T HM                  1985MMd  (7702) 614
DH(K1)=-35.8 kJ mol-1; DH(B2)=-60.6; DS(K1)=-69.8 J K-1 mol-1; DS(B2)=-28.2
Ternary complexes with: thiourea, thiosulphate, chloride
-------------------------------------------------------------------------------
Ag+        EMF KNO3   20°C  1.0M C    M   K1=10.19  B2=12.46  1984DBb  (7703) 615
                                          B(Ag(tu)I)=12.12
                                          B(Ag(tu)I2)=14.12
                                          B(Ag(ts)I)=12.67
tu is thiourea.  ts is thiosulfate. Method: Ag/Ag+ electrode.
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I                  1981CLa  (7704) 616
                                          B2eff=26.1
                                          Kso=-24.0
Medium: methylisobutylketone. Data available for water equilibrated MIBK
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        B2=14.49       1975SAb  (7705) 617
                                          Kso=-13.73
Medium: propylene carbonate/0.09 M tetrahydrothiophene
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I     B2=12.33       1975SAb  (7706) 618
                                          Kso=-10.93
Medium: propylene carbonate/0.56 M tetrahydrothiophene
```

In propionitrile/0.01 , B2=13.8, B3=15.8, Kso=-11.1

Ag+ ISE non-aq 25°C 100% U I B2=18.0 1975SAc (7707) 619
Kso=-16.7

Medium: PC/TMSO, 1.23 M. In dimethylsulfite: Kso=-20.5, B2=19.0.
In ethylene sulfite: B2=21.2, Kso=-21.1. TMSO=Tetramethylene sulfoxide

---

Ag+ ISE mixed 25°C 9% U I K2=1.87 1974ABa (7708) 620
K3=2.46
B(Ag2I)=13.16
Kso=-16.19

Medium: 9% w/w acetone/H2O. In 19.8% acetone/H2O, K2=3.07, K3=1.45, B(Ag2I)=
13.04. Solubility data for differing media strengths also given

---

Ag+ ISE alc/w 25°C 9.6% U I K2=2.69 1974ABa (7709) 621
K3=1.52
B(Ag2I)=13.87
Kso=-16.50

Medium: 9.6% w/w EtOH/H2O. In 19.8% EtOH, K2=2.20, K3=2.10, B(Ag2I)=14.17
Solubility constants and data for differing media strengths also available

---

Ag+ ISE alc/w 25°C 9.5% U I K2=1.92 1974ABa (7710) 622
K3=2.24
B(Ag2I)=13.87
Kso=-16.74

Medium: 9.5% MeOH/H2O. In 19.9% MeOH. K2=2.33, K3=2.94, B(Ag2I)=14.34.
Solubility constants and data for differing media strengths also available

---

Ag+ ISE diox/w 25°C 8.2% U IH K2=1.66 1974ABa (7711) 623
K3=2.63
B(Ag2I)=12.80
Kso=-15.84

Medium: 8.2% dioxan/H2O. In 20.5%, K2=2.75, K3=1.75, B(Ag2I)=13.04.
Solubility constants and data at differing media compositions also available

---

Ag+ EMF KNO3 50°C ? U IH 1974DGb (7712) 624
Kso=-17.52

Medium:10% NaNO3-Ca(NO3)2(H2O)4. DH(Kso)=102.1 kJ mol-1(0%), 102.6(10%),
98,5(20%); Kso=-17.45(0%), -17.58(20%) x units

Ag+ EMF non-aq ? 100% U 1974FCa (7713) 625
K(AgI(s)+LiI=LiAgI2)=2.8

Medium: THF

Ag+ EMF non-aq 30°C 100% U K1=6.55 B2=9.40 1974JAc (7714) 626

Medium: pyridine, 0.2 M LiClO4; m units

Ag+ ISE non-aq 25°C 100% U I B2=18.58 1974SAb (7715) 627
Kso=-16.79

Medium: 3-Me-2-Oxazolidone, 0.1 M Pr4NClO4

```
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  80%  U  I     B2=17.09       1974SAc  (7716) 628
                                          Kso=-17.64
Medium: 80% acetone/H2O. In 98.5% acetone, Kso=-20.21, B2=21.34, B3=22.79
In 91.2% acetone, Kso=-18.70, B2=18.96; 100%: Kso=-23.0, B2=24.4
--------------------------------------------------------------------------------
Ag+        EMF non-aq 87°C 100%  U                      1973BMc  (7717) 629
                                          Kso=-10.92
Medium: CH3COONa(liquid); m units
--------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U                      1973BRa  (7718) 630
                                          Kso=-16.0
--------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  U       B2=15.6        1973CCa  (7719) 631
                                          B(Ag2I3)=30.3
                                          Kso=-15.0
Medium: MeCN, m units
--------------------------------------------------------------------------------
Ag+        sol non-aq 280°C 100%  U                     1973HOa  (7720) 632
                                          B3=7.38
                                          B4=7.56
                                          B(Ag2L6)=16.2
Medium:(Na,K)NO3; m units
--------------------------------------------------------------------------------
Ag+        ISE non-aq 280°C 100%  U       B2=6.5         1973HOb  (7721) 633
                                          B3=7.36
                                          B4=6.5
                                          B(Ag2I6)=16.3
Medium:(Na,K)NO3; m units
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  10%  U  I                   1973KPa  (7722) 634
                                          Kso=-16.2
In 10% v/v MeOH/H2O;Kso=-15.96(=0%),-16.5(40%),-16.8(60%),-17.4(90%);
Also in EtOH, PrOH, i=PrOH, acetone, DMF. In PrOH:Kso=-16.1(10%),-16.3(40%)
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  10%  U  I                   1973KPa  (7723) 635
                                          Kso=-16.1
In 10% v/v acetone/H2O;Kso=-16.1(20%),-16.1(30%),-16.1(40%)
In DMF: Kso=-16.0(10%), -15.8(40%), -15.4(60%)
--------------------------------------------------------------------------------
Ag+        ISE diox/w 20°C  50%  U  I                   1973NEa  (7724) 636
                                          Kso=-16.83
Medium: 50% v/v dioxan-H2O, 0.001 M KI; Kso=-17.80(70%), -18.59(80%),
-19.32(90%)
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I     B2=12.58       1973SSg  (7725) 637
                                          Kso=-13.41
in (propionitrile + y M SO2), 0.1 M Pr4NClO4 at y=0.95.
B2=17.25, Kso=-16.08(y=0); B2=10.07, Kso=-12.39(y=3.3)
--------------------------------------------------------------------------------
```

```
Ag+        EMF non-aq 25°C 100%  U  I                    1972BGa  (7726) 638
                                        Kso=-16.7
Medium: ethylene glycol.In diMeacetamide: B2=17.8, B(Ag3L4)=48.9, Kso=-15.30
--------------------------------------------------------------------------------
Ag+        ISE oth/un 50°C    ?  U T H                   1972BNa  (7727) 639
                                        Kso=-17.39
Medium: Ca(NO3)2(H2O)4. DH(Kso)=113 kJ mol-1; Kso=-16.56(65 C),-16.21(70 C),
-16.12(75 C), -15.83(80 C) x units
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U       B2=12.59       1972GSd  (7728) 640
                                        B3=13.45
                                        B(Ag6I8)=75.33
Medium: DMSO, 0.5 M KNO3
--------------------------------------------------------------------------------
Ag+        ISE mixed    ?  2.7%  U                      1972KPa  (7729) 641
                                        Kso=-16.2
In 2.7 to 14.7% acetone/H2O. In DMF/H2O: Kso=-15.96(0-2.6%), -15.76(13.3%),
-15.34(25.9%)
--------------------------------------------------------------------------------
Ag+        EMF non-aq 142°C 100%  U                     1971BMb  (7730) 642
                                        Kso=-8.62
Medium: NH4SO3NH2; m units
--------------------------------------------------------------------------------
Ag+        EMF non-aq 30°C 100%  U       B2=14.8        1971BPb  (7731) 643
                                        B(Ag3I4)=41.7
                                        Kso=-14.4
Medium: 2-pyrrolidinone, 0.1 M Et4NClO4
--------------------------------------------------------------------------------
Ag+        EMF mixed  25°C  60%  U  I    B2=12.5        1971CMa  (7732) 644
                                        B(Ag2L3)=25.2
                                        B(Ag3L4)=36.7
                                        Kso=-12.2
Medium: 60% DMSO/H2O, 0.1 M Et4NClO4. B2=12.6(70%), 12.7(80-90%), 12.9(95%)
B(Ag2L3)=24.3(80%), B(Ag3L4)=36.9(95%). Kso=-15.6(5%),-14.5(20%),-11.9(95%)
--------------------------------------------------------------------------------
Ag+        EMF non-aq 350°C 100%  U T                   1971GJa  (7733) 645
                                        Kso=-8.32
Medium: (Na,Ba)NO3 eutectic. Kso=4.387-7895/T m units. 350-425 C
--------------------------------------------------------------------------------
Ag+        ISE non-aq 150°C 100%  U T     K1=2.14        1971KIa  (7734) 646
Medium: C2H5NH3Cl; K1=2.11(170 C), 2.06(190 C), 1.95(210 C) unit:mol/mol sol
--------------------------------------------------------------------------------
Ag+        sol alc/w  20°C  50%  U  I                   1971NEa  (7735) 647
                                        Kso=-16.40
50% w/w MeOH/H2O; Kso=-16.96(70%), -17.24(80%), -17.64(90%), -18.00(100%)
In PrOH/H2O: Kso=-16.42(50%), -16.96(70%), -18.08(90%). -19.38(100%)
--------------------------------------------------------------------------------
Ag+        ISE non-aq 30°C 100%  U  I                   1971QDa  (7736) 648
                                        Kso=-16.7
Medium: 13% N-methylacetamide/MeOH at I=0.1. Kso=-17.5(0%), -16.1(27%),
```

-15.4(40%),-14.9(63%),-14.6(84%),-14.3(100%). In MeOH,I=0.01: Kso=-18.0

Ag+ con non-aq 20°C 100% U B2=13.0 1970DMa (7737) 649
B(Ag2I)=12.1
B(Ag3I4)=37.2
Kso=-12.1
Medium: DMSO, 0.1 M Et4NClO4

Ag+ ISE non-aq 22°C 100% U B2=22.8 1969CLa (7738) 650
B(Ag3I4)=66.9
Kso=-21.8
Medium: propene carbonate, 0.1 M Et4NClO4

Ag+ sol non-aq 280°C 100% U K1=3.62 B2=6.56 1969ELa (7739) 651
B3=7.46
Kso=-9.21
Medium: (Na,K)NO3; m units. Using Ag ISE: B2=6.65, B3=7.54, Kso=-9.24

Ag+ ISE NaNO3 50°C 1.0M U T 1969GUa (7740) 652
Kso=-13.85
Kso=-13.36(60 C),-12.87(70 C),-12.39(80 C),-12.10(90 C)

Ag+ ISE non-aq 98°C 100% U B2=10.6 1969GUa (7741) 653
B3=12.16
Kso=-11.95
Medium: N-methylformamide, 1 M NaNO3

Ag+ EMF non-aq 148°C 100% U T H 1969SMh (7742) 654
Kso=-13.09
Medium: (Li,K)NO3, 43% LiNO3; 148.5 C. Kso=-13.04(150 C), -12.31(172 C),
-12.64(194.5 C) m units

Ag+ ISE non-aq 25°C 100% U B2=16.7 1969VKa (7743) 655
Kso=-14.4
Medium: N-methyl-2-pyrrolidone

Ag+ ISE non-aq 20°C 100% U B2=22.0 1968BBb (7744) 656
Kso=-20.5
Medium: CH3NO2

Ag+ ISE non-aq 30°C 100% U 1968DLa (7745) 657
Kso=-18.48
B(Ag3I4)=56.52
Medium: sulpholan, 0.1 M Et4NClO4

Ag+ ISE non-aq 350°C 100% U H 1968GSf (7746) 658
Kso=-7.71
Medium: (K/Ba)NO3 eutectic. DHso=137.2 kJ mol-1

Ag+ sp non-aq 24°C 100% U I 1968LAc (7747) 659

B(Ag2L)=10.04
B(Ag3L)=10.61
Also solubility. Medium: DMSO, 0.5 M Et4NClO4. In MeCN: B(Ag2L)=9.11, B(Ag3L)=10.00; in acetone: B(Ag3L)=18.96

Ag+ oth alc/w 25°C 100% U 1968PAa (7748) 660
Kso=-18.3
Medium: MeOH

Ag+ ISE non-aq 428°C 100% U T K1=0.73 B2=1.55 1968WIb (7749) 661
Medium: molten (Li/K)Cl. At 450C: K1=0.63, B2=0; 476 C: K1=0.58, B2=0.8

Ag+ ISE alc/w 25°C 100% U I 1967AKa (7750) 662
Kso=-18.3
Medium:MeOH. In DMSO: Kso=-11.4,B2=12.5. In HCONH2:Kso=-14.5. In DMF: Kso=-15.8,B2=17.8. In Me2NCOMe: Kso=-14.7,B2=12.5

Ag+ con non-aq 140°C 100% U K1=3.49 1967BNb (7751) 663
Medium:liquid I2

Ag+ ISE oth/un 25°C 1.0M U 1967BPf (7752) 664
B4=13.37

Ag+ ISE non-aq 239°C 100% U T H 1967FBb (7753) 665
Kso=-12.62
Medium: molten (Li/Na)ClO4. Kso=-13.21(222 C?), -12.3(250 C). DH(Kso)=167.2 J K-1 mol-1

Ag+ ISE non-aq 641°C 100% U K1=3.23 B2=6.16 1967GUb (7754) 666
Medium: (Li/K)SO4 eutectic. 564-718 C, x units

Ag+ ISE non-aq 25°C 100% U T 1967RPc (7755) 667
Kso=-11.47
B(Ag2I3)=23.95
Medium: DMSO, 0.1 M NH4NO3. B=23.04(45 C),21.83(65 C),20.83(85 C)

Ag+ ISE non-aq 23°C 100% U I B2=13.15 1966LIb (7756) 668
Kso=-12.0
Medium: DMSO, 0.1 M Et4NClO4. In MeOH: B2=14.8, Kso=-18.2. In acetone: B2=22.25, Kso=-20.9. In MeCN: B2=14.6 to 15.7, Kso=-14.2. In EtNO2:B2=23.5

Ag+ ISE non-aq 20°C 100% U 1966THb (7757) 669
Kso=-5.6
Medium liquid NH3, NH4NO3(NH3)1.3

Ag+ ISE non-aq 150°C 100% U 1965BFc (7758) 670
Kso=-13.0
Medium: (Na/K)NO3 eutectic. m units

Ag+ ISE non-aq 25°C 100% U K1=5.03 1965MBd (7759) 671

Medium: diaminoethane

Ag+ ISE non-aq 349°C 100% U TIH 1964BLa (7760) 672
Kso=-10.36
Medium:molten NaNO3. DH(Kso)=123.3 kJ mol-1. In KNO3:Kso=-9.92(359 C), -9.24 (361 C). In (Na/K)NO3: Kso=-11.85(250 C), DH=116.6

Ag+ con non-aq 25°C 100% U K1=4.95 1964FMb (7761) 673
Medium: diaminoethane

Ag+ sol oth/un 300°C var U 1964GGa (7762) 674
Ks2=-0.70
Medium: NaI

Ag+ sol oth/un 20°C 0.0 U K1=6.58 1964LIa (7763) 675
K(AgL+Ag)=4.42
K(AgL+2Ag)=7.04

Ag+ ISE non-aq 350°C 100% U TI K1=4.08 1963BHa (7764) 676
Medium: molten KNO3. In (Na/K)NO3: K1=4.20(350 C), 4.11(375 C). In NaNO3: K1=4.69(350 C) x units(mol/mol NO3)

Ag+ ISE non-aq 25°C 100% U B2=18.12 1963CMa (7765) 677
Kso=-16.44
B(Ag3L4)=51.55
Medium: Me2NCHO

Ag+ sol oth/un 18°C var U K1=6.59 B2=11.74 1963MIc (7766) 678
B3=13.75
B4=14.36
Kso(AgL)=-16.50

Ag+ ISE non-aq 148°C 100% U T 1963THa (7767) 679
Kso(AgL)=-13.8
Medium: liquid (Li,K)NO3. Method: Ag electrode. Kso=-13.1(172 C), -12.4(194.5 C), x units

---

Ag+ ISE non-aq 402°C 100% U K1=3.73 B2=7.16 1962ABb (7768) 680
K(AgL+Ag)=3.55
Medium: liquid KNO3, m units. Method: Ag electrode

Ag+ sol NaClO4 25°C 7.0M U 1962FSb (7769) 681
B3=14.09
B4=14.39
Kso(AgL)=-15.82

Ag+ ISE non-aq 25°C 100% U K1=4.79 1961SBb (7770) 682
Medium: C2H4(NH2)2. Method: Ag electrode

Ag+ cal non-aq 158°C 100% U H 1960JMa (7771) 683

Medium: liquid (Li,K)NO3. DH(so)=134 kJ mol-1, DS=76.6 J K-1 mol-1

Ag+ sol none 20°C 0.0 U 1960LIa (7772) 684
B(Ag2L)=11.0
B(Ag3L)=13.62

Ag+ sol none 18°C 0.0 U K1=6.58 B2=11.74 1957LIa (7773) 685
K3=1.94
K4=-0.58
Kso(AgL)=-16.50

Ag+ ISE non-aq 250°C 100% U H 1956FRb (7774) 686
Kso(AgL)=-9.73
Method: Ag electrode. Medium: liquid (Na0.5K0.5)NO3, m units
DH(so)=122.8 kJ mol-1, DS=58.6 J K-1 mol-1

Ag+ ISE oth/un 25°C var U T H 1956KLa (7775) 687
Kso(AgL)=1.52-5090/T
Method: Ag electrode. DH(so)=97.5 kJ mol-1

Ag+ sol NaClO4 25°C 2.0M U 1956LPa (7776) 688
K(AgL(s)+2L=AgL3)=-2.40
K(AgL(s)+3L=AgL4)=-2.30
K(2AgL(s)+4L=Ag2L6)=-3.30
K(3AgL(s)+5L=Ag3L8)=-2.77

Ag+ sol NaClO4 25°C 4.0M U K1=8.13 1956LPa (7777) 689
K(AgL(s)=AgL)=-8.22
K(AgL(s)+Ag=Ag2L)=-6.0
K(AgL(s)+2Ag=Ag3L)=-3.15
K(AgL(s)+3Ag=Ag4L)=-2.43

Ag+ ISE NaClO4 25°C 4.0M U 1956LPa (7778) 690
B(Ag2L6)=29.7
B(Ag3L8)=46.4
Kso(AgL)=-16.35
K(AgL(s)+2L=AgL3)=-2.52
Method: Ag electrode. B3=13.85; K4=0.43; K(AgL(s)+3L=AgL4)=-2.05;
K(2AgL(s)+4L=Ag2L6)=-3.0; K(3AgL(s)+5L=Ag3I8)=-2.64. Data also by solubility

---

Ag+ sol oth/un 25°C var U 1954KTa (7779) 691
B4=14.00
K5=0.18 or B(Ag2L6)=29.85
B(Ag3L)=14.00

Ag+ sol non-aq 25°C 100% U I B2=23.60 1954KTa (7780) 692
B(Ag3L4)=65.4
Medium: Me2CO. Also data for Me2CO/H2O mixtures. In aqueous soln, I=var,
B3=14.00, K4=0.49, K(AgL(s)+2L=AgL3)=-2.42, K(AgL(s)+3L=AgL4)=-1.92

Ag+ sol oth/un 20°C var U 1954KTa (7781) 693
B3=13.60
K4=0.44
K5=0.11 or B(Ag2L6)=29.85

Ag+ ISE KNO3 20°C 1.60M U 1953GOa (7782) 694
B3=13.85
K4=-0.11

Ag+ ISE non-aq 18°C 100% U B2=21.83 1952AEa (7783) 695
Medium: Et2O, I 1 M LiClO4. Method: Ag electrode

Ag+ sol oth/un 25°C var U H B2=15.74 1941ERa (7784) 696
B(Ag2L6)=30.0
K3=-0.84
B5=13.95 or B(Ag2L6)=32.65
Medium: HI. DH(Ag2L6)=-221.8 kJ mol-1

Ag+ ISE none 25°C 0.0 U T H 1938OBa (7785) 697
Kso(AgL)=-16.081
Method: Ag electrode, I=0 corr. DH(so)=110.8 kJ mol-1, DS=63.7 J K-1 mol-1.
At 5 C: Kso=-17.498; 15 C: -16.081; 35 C: -15.456; 45 C: -14.879

Ag+ ISE none 25°C 0.0 U 1933HJa (7786) 698
Kso(AgL)=-16.01

Ag+ ISE alc/w 25°C 100% U 1929BHa (7787) 699
Kso(AgL)=-18.22
Medium: MeOH. Method: Ag electrode

Ag+ ISE none 16°C 0.0 U 1927CAa (7788) 700
Kso(AgL)=-16.37

Ag+ sol none 25°C 0.0 U 1908KOa (7789) 701
Kso(AgL)/Kso(AgBr)=-3.70
Kso(AgL)=-16.00

Ag+ ISE oth/un 60°C dil U 1905SAd (7790) 702
Kso(AgL)=-13.93

Ag+ sol oth/un 25°C var U 1904BEa (7791) 703
B4=15.74
By Ag electrode B(Ag2L7)=29.50

Ag+ ISE oth/un 13°C var U 1900DAa (7792) 704
Kso(AgL)=-16.49

Ag+ sol oth/un 25°C var U 1900HEb (7793) 705
B4=14.41
B(Ag3L)=14.10

```
                                        K(AgL(s)+2Ag=Ag3L)=-2.6
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  var  U                        1900THa  (7794) 706
                                        Kso(AgL)=-15.96
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  var  U                        1894GOa  (7795) 707
                                        Kso(AgL)=-16.03
********************************************************************************
IO3-                    HL    Iodate           CAS 7782-68-5  (1257)
Iodate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF none   25°C  0.0  U                        1973KCb  (8455) 708
                                        Kso(AgL(s))=-7.5
--------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  U  I                     1973KCb  (8456) 709
                                        Kso(AgL(s))=-12.7
Medium: MeOH. Kso=-10.6 (in MeCN); -9.8 (in DMSO)
--------------------------------------------------------------------------------
Ag+        sol non-aq 25°C 100%  U T H                    1973NDb  (8457) 710
                                        Kso(AgL(s))=-7.34
Medium: formamide. DH(Kso)=46.7 kJ mol-1; Kso=-7.22(30 C), -7.07(35 C)
--------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U T                      1972RAa  (8458) 711
                                        Kso(AgL(s))=-7.510
Kso=-8.364(2 C), -8.010(11 C), -7.689(20 C), -7.354(30 C), -7.041(40.2 C),
-6.749(49.1 C)
--------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U T                      1972RAa  (8459) 712
                                        Kso(AgL(s))=-7.72
Medium: D2O. Kso=-8.45(5 C), -8.05(15 C), -7.39(35 C), -6.95(50.3 C)
--------------------------------------------------------------------------------
Ag+        sol NaClO4 25°C  1.0M U T H                    1956RMa  (8460) 713
                                        Kso(AgL)=-7.08
                                        K(AgL(s)=AgL)=-6.89
                                        K(AgL(s)+L=AgL2)=-5.62
Medium: LiClO4. 35 C:K1=0.80,K2=1.02,Kso=-6.76,K(AgL(s))=-6.39,K(AgL(s)+L)=
-5.37; 50 C:K1=0.96,K2=0.65,-6.37,-5.80,-5.15. DH(K1)=22 kJ m-1,DH(B2)=-22
--------------------------------------------------------------------------------
Ag+        ISE oth/un 22°C  var  U    M   B2=5.65         1952SHa  (8461) 714
                                        B(Ag(NH3)2L2)=4.6
--------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U                        1951MOa  (8462) 715
                                        Kso(AgL)=-7.51
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  dil  U T                      1951RAa  (8463) 716
                                        Kso(AgL)=-7.49
Kso=-6.91(45 C)
--------------------------------------------------------------------------------
```

```
Ag+        sol none   25°C  0.0  U                          1941DSa  (8464) 717
                                        Kso(AgL)=-7.51
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U T H                      1941LLa  (8465) 718
                                        Kso(AgL)=-7.51
I=0 corr. DH(so)=-49 kJ mol-1, DS=-49 J K-1 mol-1. Kso=-8.03(10 C), -7.68
(20 C), -7.35(30 C), -7.19(35 C)
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U                          1939KLa  (8466) 719
                                        Kso(AgL)=-7.52
-------------------------------------------------------------------------------
Ag+        con none   18°C  0.0  U T                        1923BOa  (8467) 720
                                        Kso(AgL)=-7.74
I=0 corr. Kso=-8.04(9.4 C), -7.45(26.6 C)
-------------------------------------------------------------------------------
Ag+        sol oth/un 20°C  dil  U                          1923BOa  (8468) 721
                                        Kso(AgL)=-7.73
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  dil  U                          1909HSa  (8469) 722
                                        Kso(AgL)=-7.50
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  dil  U T H                      1905SAd  (8470) 723
                                        Kso(AgL)=-7.33
Method: Ag electrode. Kso=-6.37(60 C), DH=0.5 kJ mol-1
-------------------------------------------------------------------------------
Ag+        con oth/un 20°C  dil  U                          1903BOb  (8471) 724
                                        Kso(AgL)=-7.64
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  dil  U                          1902NKa  (8472) 725
                                        Kso(AgL)=-7.45
*******************************************************************************
MnO4-                  HL    Permanganate     CAS 13456-41-3  (5678)
Manganate(VII), Permanganate;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  C TIH                    1975DMa  (8630) 726
                                        Kso(AgMnO4)=-9.88
Data for 15-35 C. Data for 0.0025-0.025 M NaClO4, corrected to I=0.0 M.
DH(Kso)=28.69 kJ mol-1, DS(Kso)=-93.03 J K-1 mol-1.
*******************************************************************************
MoO4--                 H2L    Molybdate          (443)
Molybdate;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        EMF oth/un 251°C    ?  U T H    K1=0.75   B2=1.26   1981HTa  (8697) 727
Electrolyte: molten 1:1 (K,Na)NO3; DH1=-7.5 kJ mol-1; DS1=20 J mol-1 K-1
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  dil  U                          1980GSb  (8698) 728
```

```
                                        Ks(Ag2MoO4)=-11.66
ISE also used
--------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U   H                  1956MHa  (8699) 729
                                        Kso(Ag2L)=-11.51
DH(Kso)=52.7 kJ mol-1, DS=-40 J K-1 mol-1
--------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U T H                  1954PAa  (8700) 730
                                        Kso(Ag2L)=-11.55
DH(Kso)=54.0 kJ mol-1(25 C). Kso=-11.72(20 C), -11.40(30 C), -11.09(40 C)
--------------------------------------------------------------------------------
Ag+        ISE oth/un 18°C  var  U                     1934BGa  (8701) 731
                                        Kso(Ag2L)=-10.51
********************************************************************************
NH3                     L    Ammonia          CAS 7664-41-7  (414)
Ammonia
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 1.00M U        K1=3.367  B2=7.251  1993GYa  (9004) 732
                                        B(AgH-1L2)=-4.08
--------------------------------------------------------------------------------
Ag+        cal R4N.X  25°C  1.0M C   H                  1992LHa  (9005) 733
Medium: 1.0 M NH4NO3. DH(K1)=-21.40 kJ mol-1, DS(K1)=8.66 J K-1 mol-1;
DH(B2)=-56.6, DS(B2)=-52.6.
--------------------------------------------------------------------------------
Ag+        sp  R4N.X  25°C 0.10M U                     1986BJb  (9006) 734
                                        K3=-1.60
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 1.00M U T HM   K1=4.33   B2=6.9    1986MLa  (9007) 735
DH(K1)=-79.4 kJ mol-1; DH((B2)=-56.9; DS(K1)=180.0 J K-1 mol-1;
DS(B2)=-58.6. Ternary complexes with S2O3 and SCN ligands
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C        K1=3.41   B2=7.26   1985YWa  (9008) 736
--------------------------------------------------------------------------------
Ag+        EMF R4N.X  25°C  1.0M C    M   K1=5.94   B2= 9.19  1984DBc  (9009) 737
                                        B(Ag(S2O3)L)=9.33
                                        B(Ag(S2O3)2L)=14.08
                                        B(Ag(S2O3)L2)=12.32
Method: Ag/Ag(I) electrode. Medium: 1.0 M NH4NO3.
--------------------------------------------------------------------------------
Ag+        oth R4N.X  25°C 0.10M U T      K1=3.44   B2=6.92   1983KOb  (9010) 738
Medium:NH4NO3. At 30 C K1=3.38,B2=6.80; 40 C K1=3.26,B2=6.56; 50 C K1=3.15,
B2=6.32; 60 C, K1=3.08, B2=6.10; 80 C, K1=2.71, B2=5.58; 100C,K1=2.52,B2=5.1
--------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C 0.50M U  I     K1=3.22   B2=7.21   1983MNa  (9011) 739
Medium: LiNO3. I=1.0: K1=3.23, B2=7.17; I=2.0: 3.20, 7.20; I=3.0:3.18, 7.18;
I=4.0: 3.13, 7.14; I=5.0: 3.10, 7.09
--------------------------------------------------------------------------------
Ag+        gl  NaNO3  25°C 0.50M U  I     K1=3.28   B2=7.25   1983MNa  (9012) 740
```

Medium: LiNO3. I=1.0: K1=3.27, B2=7.24; I=2.0: 3.27, 7.28; I=3.0:3.25, 7.30;
I=4.0: 3.27, 7.34; I=5.0: 3.28, 7.38

Ag+ gl KNO3 25°C 0.50M U I K1=3.27 B2=7.24 1983MNa (9013) 741
I=1.0: K1=3.19, B2=7.17; I=2.0: 3.28, 7.30; I=3.0: 3.32, 7.35

Ag+ gl NaClO4 25°C 0.50M U I K1=3.31 B2=7.35 1983MNa (9014) 742
Medium: LiClO4. I=1.0: K1=3.43, B2=7.53; I=2.0: 3.52, 7.72; I=3.0: 3.60,
7.84

Ag+ gl NaClO4 25°C 0.50M U I K1=3.36 B2=7.38 1983MNa (9015) 743
I=1.0: K1=2.29, B2=7.54; I=2.0: 3.53, 7.78; I=3.0: 3.63, 7.92;
I=4.0: 3.80, 8.18

Ag+ gl oth/un 25°C 3.00M C K1=3.204 B2=7.17 1979HAb (9016) 744
K3=-0.76

Ag+ cal NaClO4 25°C 3.00M C I K1=3.62 B2=7.93 1979MAb (9017) 745
Medium: NaClO4. In 3.0 M LiClO4: K1=3.58, B2=7.77; 3 M NaNO3: 3.23, 7.14

Ag+ EMF KNO3 141°C ? U T K1=3.178 B2=6.66 1974MBc (9018) 746
Medium:(Li,K)NO3, 160 C:K1=3.088,K2=3.208; 181 C:K1=2.831, K2=3.120;
199 C: K1=2.993, K2=2.742 (Unit mol/mol NO3-)

Ag+ sol KNO3 70°C 1.0M U T 1973KBb (9019) 747
Ks(Ag2O+4L+H2O=2AgL2+2OH)=1.36
Ks=1.56(80C), 1.79(90 C), 2.03(100 C), 2.33(110 C), 2.56(120 C), 2.82(130 C)

Ag+ gl R4N.X 25°C 2.0M U T K1=3.35 B2=7.23 1969KLe (9020) 748
Medium:NH4NO3. At 30 C:K1=3.30, B2=6.96. 40 C:3.1, 6.57. 50 C:2.9, 6.18
60 C:2.8, 5.85. 70 C:2.7, 5.54. 80 C:2.5, 5.22. 90 C:2.3, 4.95

Ag+ ISE oth/un 50°C var U T H B2=5.6 1966MAa (9021) 749
Ks(AgL2Br(s)=AgL2+Br)=-5.2
At 20 C: B2=6.5, Ks=-6.4. DH(B2)=-51.8 kJ mol-1

Ag+ cal oth/un 25°C 0? U H 1966PVa (9022) 750
DH(K1)=-20.5 kJ mol-1, DS=-35.9 J K-1 mol-1

Ag+ ISE R4N.X 25°C 1.0M U M B2=7.34 1961LPa (9023) 751
B(AgLCl)=6.3
B(AgL2Cl)=7.08
B(AgL2Br)=7.64
B(AgL2Br2)=7.76
Method: Ag electrode. Medium: NH4(ClO4,X) where X is Cl or Br.

Ag+ sol R4N.X 25°C 1.0M U M 1961LPb (9024) 752
K(AgCl(s)+2L=AgL2+Cl)=-1.95
K(AgCl(s)+2L=AgL2Cl)=-2.3
K(AgCl+L=AgLCl)=-3.4?

K(AgCl(s)+L+Cl=AgLCl2)=-2.8
Medium: NH4(ClO4,Cl). K(AgBr(s)+2L=AgL2+Br)=-4.58; K(AgBr(s)+2L=AgL2Br)=
-4.37; K(AgBr(s)+L=AgLBr)=-4.35; K(AgBr(s)+L+Br=AgLBr2)=-4.1 and others.

Ag+ sol oth/un 15°C var U B2=7.0 1961SDa (9025) 753

Ag+ sol oth/un 25°C var U B2=7 1959DSb (9026) 754

Ag+ ISE none 25°C 0.0 U B2=7.22 1955FYb (9027) 755

Ag+ cal oth/un 25°C dil U H 1955FYb (9028) 756
DH(B2)=-56.5 kJ mol-1; DS(B2)=-51.9 to -51.0.

Ag+ sol oth/un 25°C var U B2=7.31 1954KOa (9029) 757

Ag+ gl R4N.X 25°C 1.0M U K1=3.37 B2=7.15 1954LLa (9030) 758
Medium: NH4NO3.

Ag+ sol none 25°C 0.0 U T B2=5.09 1954LPa (9031) 759
I=0 corr. B2=5.00(35 C), 4.83(45 C)

Ag+ ISE oth/un 22°C var U M 1952SHa (9032) 760
B(AgL2X2)=ca.4.5
Method: Ag electrode. X:Cl, BrO3 or IO3.

Ag+ kin oth/un 25°C var U H 1949JAb (9033) 761
0-45 C. DH(B2)=-54 kJ mol-1.

Ag+ ISE KNO3 25°C 1.0M U I K1=3.3 B2=7.21 1947NAa (9034) 762
I=0.0044 M K2=3.89, B2=7.20. I=0 corr.: B2=7.21

Ag+ gl none 25°C 0.0 U K1=3.26 1944KNa (9035) 763

Ag+ sol none 25°C 0.0 U K1=3.37 B2=7.21 1943VMa (9036) 764

Ag+ gl R4N.X 30°C 5.0M U TI K1=3.14 B2=6.96 1941BJa (9037) 765
Medium: NH4NO3. 2 M: K1=3.20, K2=3.83. 0.5 M: K1=3.24, K2=3.81. I=0 corr,
25 C: K1=3.315, K2=3.915. 22 C, 0.5 M: K1=3.39, K2=3.92

Ag+ sol none 25°C 0.0 U B2=7.22 1941DSa (9038) 766

Ag+ cal none 25°C 0.0 U H 1937SBa (9039) 767
I=0 corr. DH(B2)=-56.1 kJ mol-1; DS(B2)=-49.8.

Ag+ sol oth/un 15°C var U B2=7.48 1935BWa (9040) 768

Ag+ ISE alc/w 25°C 50% U B2=7.73 1934LAb (9041) 769
Method: Ag electrode. Medium: 50 mol% EtOH/H2O.

Ag+ ISE oth/un 15°C var U B2=7.13 1933BWa (9042) 770

Ag+ ISE oth/un 25°C dil U T H B2=7.03 1930KOa (9043) 771
Method: Ag electrode. B2=7.77(0 C), 7.24(18.5 C), 6.86(30 C), 6.49(40 C), 6.16(52 C). DH(B2)=-51.5 kJ mol-1.

Ag+ sol none 25°C 0.0 U B2=7.10 1930RHa (9044) 772

Ag+ ISE oth/un 15°C var U B2=7.60 1928JOa (9045) 773

Ag+ ISE oth/un 18°C var U B2=7.66 1925BRa (9046) 774

Ag+ ISE oth/un 16°C dil U B2=7.31 1903EUa (9047) 775

Ag+ sol oth/un 25°C var U T B2=7.17 1902BFa (9048) 776
At 18 C, by EMF, B2=7.10

Ag+ cal oth/un 15°C ? U H 1899BDa (9049) 777
DH(B2)=-55.44 kJ mol-1
****
NH3O L Hydroxylamine; CAS 5470-11-1 (1808)
Hydroxylamine; NH2.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaNO3 20°C 0.50M U K1=1.9 B2=1.90 1963SZa (9256) 778
****
NO2- HL Nitrite CAS 7782-77-6 (635)
Nitrite;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF NaNO3 25°C 0.50M U IH K1=1.695 B2=2.073 1972TLa (9341) 779
Kso=-3.569. At I=0.8: K1=1.562, B2=2.051, Kso=-3.456. At 0 corr, 15 C: K1= 2.426, B2=2.811, Kso=-4.50; 25 C:2.32,2.527,-4.15. 35 C:2.07,2.26,Kso=-3.78

Ag+ sol NaClO4 20°C 1.20M U K1=1.61 B2=2.18 1970KCc (9342) 780
By spectrophotometry: K1=1.64

Ag+ sol oth/un 25°C 0.0 U B2=2.30 1957HAa (9343) 781
Kso(AgL(s))=-3.22

Ag+ sol oth/un 25°C var U B2=2.83 1906PAa (9344) 782
Kso(AgL(s))=-3.80
Ks(AgL(s)=AgL)=-1.92
Ks(AgL(s)+L=AgL2)=-1.28
B2 by Ag electrode. By conductivity Kso=-4.22
****
NO3- HL Nitrate CAS 7697-37-2 (288)
Nitrate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	con	none	25°C	0.0	C	I	K1=0.0	1986SDa	(9495) 783
Value derived from data for 0.001-0.05 self medium.									
Ag+	ISE	mixed	25°C	95%	U	I	K1=3.02	1983MSa	(9496) 784
Medium: THF/H2O mixtures. Proportion of THF varied from 95% to 77% (w/w)									
Ag+	con	non-aq	25°C	100%	U	I	K1=2.40	1982GCa	(9497) 785
Medium: DMF. Further data for a wide variety of media									
Ag+	con	non-aq	25°C	100%	U	I	K1=2.3	1982GCb	(9498) 786
Medium: DMF and 1,1,3,3-Tetramethylurea. Further data for other media available for a wide variety of mixed media									
Ag+	sp	oth/un	25°C	?	U		K1=-1.0	1974CIb	(9499) 787
Method: Raman and IR spectroscopy									
Ag+	con	non-aq	25°C	100%	U		K1=2.21	1974HPb	(9500) 788
Medium: Hexamethylphosphotriamide									
Ag+	con	oth/un	25°C	0.0	U		K1=-0.06	1971HPa	(9501) 789
Ag+	con	oth/un	25°C	0.0	U		K1=-0.1	1971PJa	(9502) 790
Ag+	con	oth/un	25°C	0.0	U		K1=-0.08	1969BJa	(9503) 791
Ag+	con	oth/un	25°C	0.0	U		K1=-0.23	1969GUc	(9504) 792
Ag+	ISE	non-aq	25°C	100%	U		K1=1.87	1969KLa	(9505) 793
Medium: MeCN									
Ag+	con	oth/un	25°C	0.0	U	I	K1=0.26	1969MFb	(9506) 794
Also in dioxan/H2O mixtures									
Ag+	con	non-aq	25°C	100%	U		K1=1.85	1969YKa	(9507) 795
Medium: MeCN									
Ag+	oth	oth/un	25?°C	0.0	U		K1=0.2	1966MBb	(9508) 796
Ag+	ISE	mixed	22?°C	80%	U	I	K1=1.06	1965MAd	(9509) 797
Medium: 80% i-PrOH, 0.05 M HClO4. K1=0.39(I=0.80)									
Ag+	con	non-aq	25°C	100%	U	I	K1=3.34	1964FMb	(9510) 798
Medium: diaminoethane. K1=4.09 in 1,3-diaminopropane									
Ag+	ISE	mixed	23°C	40%	U	I	K1=-0.28	1964FWa	(9511) 799
Medium:40% i-PrOH,0.5 M HClO4. K1=-0.57(0%), 0.20(70%), 0.53(80%), 0.73(90%)									
Ag+	con	alc/w	25°C	100%	U		K1=1.85	1963BGc	(9512) 800

Medium: MeOH

Ag+ con alc/w 25°C 100% U K1=2.32 1963PSa (9513) 801
Medium: EtOH, I=0 corr.

Ag+ sol NaClO4 25°C 0.20M U I K1=-0.2 1963RSe (9514) 802
Medium:Li(ClO4). K1=-0.1(I=0.02 to 0.1) in H2O and D2O

Ag+ con alc/w 25°C 100% U T K1=2.28 1962BKb (9515) 803
Medium: EtOH, I=0 corr. K1=2.11(-5 C), 2.02(5 C), 2.11(15 C), 2.42(35 C), 2.49(40 C)

Ag+ oth non-aq 11°C 100% U K1=3.42 1962PBb (9516) 804
Method: Freezing point. Medium: 1,2-diaminoethane

Ag+ con non-aq 25°C 100% U K1=2.40 1961CMa (9517) 805
Medium: HCONMe2

Ag+ con non-aq 25?°C 100% U K1=3.60 1958GLb (9518) 806
Medium: C6H5CN

Ag+ con alc/w 25°C 100% U T K1=2.25 1958KIa (9519) 807
Medium: EtOH, I=0 corr. K1=2.17(15 C), 2.41(35C), 2.55(45 C)

Ag+ con non-aq 25°C 100% U K1=0.96 1956GLa (9520) 808
Medium: C2H4(OH)2, also K1 for C2H4(OH)2/H2O

Ag+ con oth/un 25°C 0.0 U K1=-0.29 1955RSa (9521) 809

Ag+ ISE NaClO4 25°C 2.0M U K1=-0.34 1946OAa (9522) 810

Ag+ con oth/un 25°C 0.0 U K1=-0.18 1937RDa (9523) 811

Ag+ con alc/w 25°C 100% U K1=2.36 1933DAa (9524) 812
Medium: EtOH

Ag+ con oth/un 18°C 0.0 U K1=-0.08 1927DAb (9525) 813

****

N2O2-- H2L (6885)
Hyponitrite;

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

---

Ag+ sol oth/un 25°C 0.0 U 1961PYa (10093) 814
B(AgL(NH3))=8.4
Kso(Ag2L)=-18.89

****

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

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        EMF non-aq 30°C 100%  U        B2=7.6         1971BPb (10158) 815
Medium: 2-pyrrolidinone, 0.1 M Et4NClO4. Kso=-7.6
-------------------------------------------------------------------------
Ag+        EMF mixed  25°C  80%  U        B2=6.8         1971CMa (10159) 816
Medium: w% Me2SO, 0.1 M Et4NClO4. B2=7.0(w=90), 7.4(w=95), Kso=-8.3(w=0)
-7.9(w=10), -7.6(w=20), -7.2(w=40), -6.9(w=60), -6.7(w=80), -7.1(w=95)
-------------------------------------------------------------------------
Ag+        con non-aq 20°C 100%  U        B2=8.0         1970DMa (10160) 817
Medium: DMSO, 0.1 M Et4NClO4. Kso=-7.5
-------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        B2=12.60       1969VKa (10161) 818
Medium: N-Methyl-2-pyrrolidone. Kso=-10.91
-------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U  I                    1967AKa (10162) 819
                                        Kso=-11.2
Medium: MeOH. Kso=-7.7(HCONH2),-10.8(Me2NCOMe),-6.5(Me2SO),-11.0(Me2NCHO),
-9.6(MeCN),-8.5((Me2N)3PO), B2=12.2(Me2NCOMe),7.0(Me2SO),11.4((Me2N)3PO).
-------------------------------------------------------------------------
Ag+        cal oth/un 25°C  0.0  U   H                  1956GWc (10163) 820
DH(Kso(AgL(s))=69.7 kJ mol-1
-------------------------------------------------------------------------
Ag+        sol NaClO4 25°C  4.0M U        K1=2.49   B2=4.20   1954LSa (10164) 821
                                        K3=-0.02
                                        K4=-0.48
Kso(AgL(s))=-8.80, Ks(AgL(s)=AgL)=-6.30, Ks(AgL(s)+L=AgL2)=-4.60 Ks(AgL(s)+
2L=AgL3)=-4.52, Ks(AgL(s)+3L=AgL4)=-4.82. By Ag elec. B3=3.90, B4=3.67
-------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  0.0  U                      1952SUa (10165) 822
                                        Kso(AgL(s))=-8.54
-------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  0.0  U                      1938TNa (10166) 823
                                        Kso(AgL(s))=-8.58
*************************************************************************
OCN-                  HL    Cyanate          CAS 661-20-1  (6165)
Cyanate, Fulminate;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        sol none   30°C  0.0  U        B2=5.00        1954COa (10290) 824
                                        Ks(Ag2L2(s)=Ag+AgL2)=-7.64
Conductivity also used
-------------------------------------------------------------------------
Ag+        ISE none   19°C  0.0  U                      1930BHa (10291) 825
                                        Kso(AgL(s)=Ag+L)=-6.64
*************************************************************************
OH-                   HL    Hydroxide          (57)
Hydroxide;
-------------------------------------------------------------------------
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	C		*K1=-8.56	2002PLb (10723)	826
Ag+	gl	NaClO4	25°C	1.0M	C		Kso(AgOH)=-7.0	1983MAe (10724)	827
Additional method: Ag ion selective electrode.									
Ag+	ISE	NaClO4	25°C	3.00M	U		*Kso(AgOH(s)+H=Ag+H2O)=6.64	1970HSa (10725)	828
Ag+	ISE	KNO3	250°C	100%	U	T H	Kso(AgO2)=-15.6	1968SGi (10726)	829
Medium: molten KNO3. Kso=-15.1(275 C), -14.8(400 C), -14.47(425 C). DH=119 kJ mol-1, DS=106 J K-1 mol-1. Data also in (NaK)NO3.									
Ag+	sol	NaClO4	25°C	1.00M	U		K1=3.02 B2=4.69 Kso=-8.17	1967GSd (10727)	830
Ag+	con	none	25°C	0.0	U		Kso=-7.71	1963FSa (10728)	831
Ag+	dis	NaClO4	25°C	3.0M	U		B2=3.50	1960ADa (10729)	832
By solubility B2=3.60									
Ag+	ISE	NaClO4	25°C	3.0M	U		Kso=-7.42	1960AHa (10730)	833
Ag+	gl	oth/un	25°C	1.0M	U		*K1 < -11.1 *B(2,1) < -11.1 *B(2,2) < -17.7	1960BHb (10731)	834
Ag+	gl	NaClO4	25°C	0.26M	U	I	Kso=-7.37	1960NMb (10732)	835
Kso: K(0.5Ag2O(s)+0.5H2O=Ag+OH). At I=1 M NaClO4 Kso=-7.29, I=3 Kso=-7.45									
Ag+	gl	oth/un	12°C	?	U		Kso=-7.25	1958KGa (10733)	836
Kso: K(0.5Ag2O(s)+0.5H2O=Ag+OH). Polarography also used									
Ag+	ISE	none	25°C	0.0	U		Ks(3,4)=-4.3(?)	1957PKb (10734)	837
Ks(3,4): 1.5Ag2O(s)+1.5H2O+OH=Ag3(OH)4									
Ag+	gl	KNO3	18°C	0.20M	U		K1=4.22 *K1=-9.76	1954FAa (10735)	838
Ag+	ISE	none	25°C	0.0	U			1943NAa (10736)	839

```
                                        Kso=-7.59
--------------------------------------------------------------------------------
Ag+        gl  none   25°C  0.0  U                        1938OKa (10737) 840
                                        Kso=-7.84
--------------------------------------------------------------------------------
Ag+        oth none   25°C  0.0  U   H                    1937PSa (10738) 841
                                        *Kso=6.29
*Kso: K(0.5Ag2O(s)+H=Ag+0.5H2O); DH(*Kso)=-21.8 kJ mol-1, DS=47; method: DG
--------------------------------------------------------------------------------
Ag+        gl  oth/un 15°C  var  U                        1933BWa (10739) 842
                                        Kso=-7.91
--------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U        K1=2.30   B2=3.55   1933JCa (10740) 843
                                        K(AgL(s)=AgL)=-5.60
                                        K(AgL(s)+L=AgL2)=-3.71
                                        *K2=-12.10
--------------------------------------------------------------------------------
Ag+        gl  none   18°C  0.0  U                        1932BRa (10741) 844
                                        Kso=-7.95
--------------------------------------------------------------------------------
Ag+        con oth/un 25°C  dil  U T                      1927LAa (10742) 845
                                        Kso=-7.71
Kso: K(0.5Ag2O(s)+0.5H2O=Ag+OH); Kso=-7.89(18 C), -7.84(20 C)
--------------------------------------------------------------------------------
Ag+        sol oth/un 20°C  dil  U                        1925BRa (10743) 846
                                        Kso=-7.66 to -7.47
--------------------------------------------------------------------------------
Ag+        ISE oth/un 20°C  var  U                        1925BRa (10744) 847
                                        Kso=-7.82
--------------------------------------------------------------------------------
Ag+        ISE oth/un 20°C  var  U T H                    1924JGa (10745) 848
                                        Kso=-8.21
Kso(0.5Ag2O(s)+0.5H2O=Ag+OH); DH(Kso)=6.9 kJ mol-1; Kso=-7.85(40 C)
--------------------------------------------------------------------------------
Ag+        sp  oth/un 20°C  dil  U        K1=4.19         1919LOa (10746) 849
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  var  U                        1903ACa (10747) 850
                                        Kso=-7.49
--------------------------------------------------------------------------------
Ag+        con oth/un 25°C  dil  U T                      1903BOb (10748) 851
                                        Kso=-7.71
Kso: K(0.5Ag2O(s)+0.5H2O=Ag+OH); Kso=-7.82(20 C)
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  dil  U                        1902NKa (10749) 852
                                        Kso=-7.65
                                        Ks1=-4.18
Kso0: K(0.5Ag2O(s)+0.5H2O=Ag+OH); Ks1: K(0.5Ag2O(s)+0.5H2O=AgOH)
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  dil  U        K1=3.94         1901LEa (10750) 853
********************************************************************************
```

O2-- H2L Peroxide CAS 7772-84-1 (2813)
Peroxide; -O.O-

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	25°C	20%	U	I	Kso(AgHL)=-6.6	1959MSa (12647)	854

Also by kinetics, conductivity. 20% H2O2. Kso=-4.8(70%). -10 to 25 C

****

PF3 L CAS 7783-55-3 (1861)
Phosphorus trifluoride;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	?	100%	C		K1=3.19	1978GRa (12764)	855

Medium: liquid anhydrous HF

****

PH3 L Phosphine CAS 7803-51-2 (1859)
Phosphine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	?	100%	C		K(Ag+Ag(PH3)2=2AgPH3)=0.81 K(Ag(PH3)2/AgPH3*PH4*F)=3.98	1978GRa (12768)	856

Medium: liquid anhydrous HF. K(AgPH3+PH4+L=Ag(PH3)2+HL)=3.98

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	NaClO4	25°C	3.0M	M	I	K(Ag+H2L)=-0.17 K(Ag+2H2L)=-0.13 K(Ag+H2L=AgHL+H)=-5.56 K(Ag+2H2L=AgH3L2+H)=-4.58	1996CIb (12987)	857

At I=0: K(Ag+H2L)=0.3

Ag+	gl	NaClO4	25°C	3.00M	U	I	K(Ag+H2L=AgHL+H)=-4.80 K(Ag+H2L)=0.036	1973HSa (12988)	858

K(Ag3L(s)+H=3Ag+HL)=-6.56. Data also at other ligand concs.

Ag+	gl	NaClO4	25°C	3.00M	U		K(Ag+HL) < 3.2	1969BSd (12989)	859

K(Ag3L(s)+H=3Ag+HL)=-6.70

Ag+	sol	none	25°C	0.0	U		Kso(Ag3L)=-15.84	1954TOa (12990)	860

Ag+ sol oth/un 19°C var U 1951ZHa (12991) 861
Kso(Ag3L)=-19.89

Ag+ sol oth/un 18°C 0.02M U 1942HAa (12992) 862
Kso(Ag3L)=-19

Ag+ sol oth/un 18°C var U 1942TLa (12993) 863
Kso(Ag3L)=-20.84

Ag+ con oth/un 20°C dil U 1903BOb (12994) 864
Kso(Ag3L)=-17.86
****
P2O7---- H4L Pyrophosphate CAS 2466-09-3 (198)
Diphosphate; from (HO)2PO.O.PO(OH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ vlt KNO3 ? 1.00M U M 1972OAa (13524) 865
K(Ag(NH3)2+L)=4.77

Ag+ ISE NaNO3 25°C 0.50M U I K1=2.55 1971TVa (13525) 866
Kso=-17.82. I=1: K1=2.30, Kso=-17.46

Ag+ ISE NaClO4 25°C 0.50M U K1=2.57 1971TVa (13526) 867
Kso=-17.55

Ag+ sol NaNO3 ? 0.15M U I K1=2.89 1971VMb (13527) 868
Kso=-18.60. Also K1=2.80, Kso=-18.41(I=0.25), K1=2.54, Kso=-17.68(I=0.75);
K1=3.74, Kso=-21.1(I=0)
****
P4O13------ H6L Tetraphosphate (1102)
Tetraphosphate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C var U T K1=7.56 1966BCc (14036) 869
Kso=-7.07
35 C: K1=7.34, Kso=-6.89. L=PO3- unit, n=60-150
****
ReO4- HL Perrhenate (2581)
Rhenate(VII), Perrhenate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol none 25°C 0.0 C 1988HHb (14094) 870
Kso(AgReO4)=-3.17
Method: perrhenate ion selective electrode.
****
S-- H2L Sulfide CAS 7783-06-4 (705)

Sulfide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	25°C	0.0	C	TIH	K(Ag+HS)=15.89 K(Ag+2HS)=17.54 K(2Ag+3HS=Ag2S(HS)2+H)=31.24	2003SSd (14235)	871
Calc. from solubility of Ag2S (argentite) in H2S/NaOH (0.007-0.176 m HS-), pH 3.7-12.7. Data for 25-350 C. DH(AgHS)=-123.2 kJ mol-1, DH(Ag(HS)2)=20.1									
Ag+	sol	oth/un	25°C	0.0	C	TI	Ks(0.5Ag2S+0.5H2S=AgHS)=-5.62 Ks(Ag2S+2HS=Ag2S(HS)2)=-4.78 Ks(0.5Ag2S+H=Ag+0.5H2S)=-14.52	2003SSd (14236)	872
Solubility of Ag2S (argentite) in H2S/NaOH (0.007-0.176 m HS-), pH 3.7-12.7. Ks(0.5Ag2S+0.5H2S+HS=Ag(HS)2)=-3.97. Data for 25-350 C.									
Ag+	vlt	oth/un	25°C	0.72M	C	I	K(Ag+HL)=11.6	1999AVb (14237)	873
Method: determination of free S-- by cathodic stripping voltammetry. Medium: seawater, pH 8.0, S=35. Also data for S=21 and 10.5.									
Ag+	vlt	NaCl	25°C	?	U		K1eff>9.5 K2eff>5.8	1994ZMa (14238)	874
Medium: sea water, pH=8. Method: cathodic stripping square wave voltammetry									
Ag+	oth	none	?	0	U		*Ks(Ag2S+H=2Ag+HS)=-35.94	1990DKa (14239)	875
From recalculation of literature data.									
Ag+	sol	oth/un	25°C	var	U	T	Ks(0.5Ag2S+0.5H2S+HS)=-3.82	1989GBa (14240)	876
25-300 C. Constant valid at infinite dilution									
Ag+	gl	oth/un	25°C	0.10M	U	TI	K(Ag+HS)=13.6 K(AgHS+HS)=4.1	1988DYa (14241)	877
At 20 C, I=1 M: K(Ag+HS)=13.3, K(AgHS+HS)=3.9									
Ag+	oth	none	25°C	0	U		Kso(Ag2S,orthorhombic)=-53.6 *Kso(Ag2S,orthorhombic)=-36.3 Kso(Ag2S,beta)=-53.4 *Kso(Ag2S,beta)=-36.1	1988LIa (14242)	878
Derived from thermodynamic data and K(H+S=HS)=17.3.									
Ag+	oth	none	25°C	0	U		Kso(Ag2S,acanthite)=-54.71	1988SBc (14243)	879

Method: recalc. from literature data using K(H+S=HS)=18.57 and K(H+HS)=6.99

Ag+ ISE NaCl 24°C 0.10M M 1987PFb (14244) 880
Kso(Ag2S)=-48.9
Method: pH2S measured with Ag2S electrode. K(H+S=HS)=13.9 and K(H+HS=H2S)= 6.92 assumed

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Ag+ EMF non-aq 155°C 100% U 1971PCa (14245) 881
K3=25.43
Kso=-17.26
K(2Ag2S(s)=Ag+Ag3S2)=-9.25
Medium: fused (Na,K)SCN. In m units

Ag+ oth none 50°C 0.0 M T 1969HEa (14246) 882
Estimated from literature data. Kso=-46.17(50 C); -40.08(100 C); -35.45(150 C); -31.71(200 C); -28.74(250 C); -26.36(300 C)

Ag+ ISE NaNO3 25°C 0.10M U 1968HRa (14247) 883
Kso=-50.83

Ag+ sol NaClO4 20°C 1.0M U 1966SWb (14248) 884
Ks(1/2Ag2S+1/2H2S)=-7.89
Ks(1/2Ag2S+1/2H2S+HS)=-4.02
Ks(Ag2S+2HS)=-4.82
Kso(Ag2S)=-49.7

Ag+ ISE non-aq 20°C 100% U 1966THb (14249) 885
*K(Ag2S(s)+H=2Ag+HS)=-24.4
Medium: liquid NH4NO3(NH3)1.3

Ag+ oth none 25°C 0.0 U I 1964PCa (14250) 886
From thermodynamic data. K(0.5Ag2L(s)+H=Ag+0.5H2S)=-13.80. Alternative value K=-14.09. 0.1 ClO4, by Ag electrode, K=-14.20

Ag+ sol oth/un 25°C 0.0 U 1963CLa (14251) 887
K(Ag+H2S=AgSH+H)=9.23
K(Ag+2H2S=Ag(SH)2+2H)=4.0

Ag+ sol oth/un 30°C 0.0 U 1963CLa (14252) 888
K(Ag2S(s)+4S4=2Ag(S4)2+S)=-7.6
Ag2S=acanthite(s). Also other solubilities

Ag+ ISE none 25°C 0.0 U 1960MTc (14253) 889
K(AgHL(s)=Ag+HL)=-26.05

Ag+ oth none 25°C 0.0 U T 1959CZa (14254) 890
Kso(Ag2L)=-49.20
From thermodynamic data. Kso=-39.42(100 C), -35.30(200 C), -22.20(400 C), -17.27(600 C)

```
Ag+        sol NaClO4 25°C 0.10M U        K1=20.3        1958SGa (14255) 891
                                          Kso(Ag2L)=-50
                                          K(Ag2L(s)+H=2Ag+HL)=-35.2
                                          K(Ag+HL)=13.6
                                          K(AgHL+HL)=4.1
Also by Ag electrode. K(AgHL2+H)=9.5
-------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U                      1952GGc (14256) 892
                                          Kso(Ag2L)=-49.15
-------------------------------------------------------------------------------
Ag+        oth none   25°C  0.0  U                      1952LAb (14257) 893
                                          Kso(Ag2L(alpha))=-50.26
                                          Kso(Ag2L(beta))=-50.07
From thermodynamic data. Ag2L(alpha) is orthorhombic
-------------------------------------------------------------------------------
Ag+        oth none   25°C  0.0  U  I                   1949THa (14258) 894
                                          Kso(Ag2L)=-48.07
From thermodynamic data. K(0.5Ag2L(s)+H=Ag+0.5H2S(g))=-13.82. In 0.1 M ClO4,
by solubility, 20 C: K(0.5Ag2S(s)+0.5H2S(g)=AgHL)=-5.86, K(AgL+H)=5.28
-------------------------------------------------------------------------------
Ag+        ISE none   10°C  0.0  U                      1936RAa (14259) 895
                                          Kso(Ag2L)=-53.98
-------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U                      1935KIa (14260) 896
                                          Kso(Ag2L)=-51.02
I=0 corr. By Ag electrode Kso=-51.22
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  var  U                      1931KOa (14261) 897
Method: Ag electrode. K(0.5Ag2L(s)+H=Ag+0.5H2S(g))=-13.2
-------------------------------------------------------------------------------
Ag+        ISE oth/un 10°C  var  U  I                   1922JCa (14262) 898
                                          Kso(Ag2L)=-49.5
By Ag electrode. Medium:NaHS. In Na2S Kso=-50.25
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  var  U                      1908KNa (14263) 899
                                          Kso(Ag2L)=-49.41
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  var  U                      1904LUa (14264) 900
                                          Kso(Ag2L)=-50.64
Medium: KCN. By Ag electrode, room temp, 0.1 NaSH: Kso=-47.75
*******************************************************************************
SCN-                   HL    Thiocyanate      CAS 463-56-9  (106)
Thiocyanate;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        sp  non-aq 25°C 100%  C        K1=0.68        1998AEa (14625) 901
Medium: N,N-Dimethylthioformamide.  Methods: IR and FT Raman spectroscopy.
Ligand is S-bonded (thiocyanate).
-------------------------------------------------------------------------------
```

```
Ag+        dis NaNO3  25°C  1.0M C                          1997ODa (14626) 902
                                      K3=1.83
                                      K4=1.22
Method: solvent extraction into CHCl3 or MIBK.
-------------------------------------------------------------------------------
Ag+        ISE mixed  25°C       C        B2=8.0           1990TMa (14627) 903
                                      B3=9.0
Medium 0.4 M LiNO3 in 25% mass DMSO/H2O
Also for  100% H2O B2=7.9; B3=9.0; B4=9.7
-------------------------------------------------------------------------------
Ag+        cal oth/un 25°C 0.10M C   H                     1989HKa (14628) 904
Medium: 0.10 M KSCN. DH(K1)=-86.6 kJ mol-1.
-------------------------------------------------------------------------------
Ag+        ISE NaNO3  25°C  0.0  U  I M                    1988TEa (14629) 905
                                      B(AgLBr)=8.5
                                      B(AgLBr2)=9.2
                                      B(AgL2Br)=9.3
                                      B(AgLBr3)=8.2
B(AgL2Br2)=8.8, B(AgL3Br)=9.5. Data extrapolated to 0 from 2.0,1.0,0.4 NaNO3
-------------------------------------------------------------------------------
Ag+        ISE non-aq 87°C 100%  U    M   K1=3.58   B2=6.19   1987BPa (14630) 906
                                      B3=7.48
                                      B(AgClL)=6.55
                                      B(AgClL2)=7.34
                                      B(AgCl2L)=7.13
Medium: fused acetamide. K(AgCl+L)=2.89, K(AgCl2+L)=1.36
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  IH    K1=5.51   B2=8.10   1987JPa (14631) 907
Medium: tetrahydrothiophene, 0.1M Bu4NBF4
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C   H  T K1=3.64   B2=5.56   1986AIb (14632) 908
                                      B(2Ag+SCN)=5.26
Medium: DMSO, 0.1 M NH4ClO4. DH(K1)=-1.5; DH(B2)=-1.4; DH(Ag2(SCN)2)=-1.1
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 1.00M U T HM   K1=6.7    B2=8.5    1986MLa (14633) 909
                                      B3=10.0
DH(K1)=-24.3 kJ mol-1; DH(B2)=-39.8; DS(K1)=46.1 J K-1 mol-1;
DS(B2)= 28.5. Ternary complexes with S2O3-- and NH3 ligands
-------------------------------------------------------------------------------
Ag+        EMF KNO3   20°C  1.0M C    M   K1=7.43         1984DBb (14634) 910
                                      B(Ag(ta)SCN)=10.08
                                      B(Ag(ta)(tu)SCN)=12.55
                                      B(Ag(tu)SCN)=9.86
                                      B(Ag(tu)2SCN)=12.81
ta is thioacetamide.  tu is thiourea. Method: Ag/Ag+ electrode.
-------------------------------------------------------------------------------
Ag+        EMF R4N.X  25°C  1.0M C    M   K1=6.22         1984DBc (14635) 911
                                      B(Ag(NH3)L)=9.29
                                      B(Ag(NH3)(S2O3)L)=14.11
                                      B(Ag(S2O3)L)=11.03
```

Method: Ag/Ag(I) electrode. Medium: 1.0 M NH4NO3.

Ag+ gl oth/un 25°C 0.30M U M B2=7.9 1982TMb (14636) 912
B3=9.0
B4=9.7

Medium: LiNO3. In 60% w/w acetone/H2O, B2=9.3, B3=10.7, B4=11.5

Ag+ EMF oth/un 25°C 0.40M U I K1=4.4 B2=7.9 1981TMc (14637) 913
B3=9.0
B4=9.7

In w/w 80% acetone/H2O: B2=10.4; B3=11.0; B4=12.0

Ag+ sp non-aq 20°C 100% U T H 1978GGa (14638) 914
K(Ag(NH3)4+L=Ag(NH3)3L)=0.49

Medium: liquid NH3. Also data at -40 C. DH=8.2 kJ mol-1; DS=37 J K-1 mol-1

Ag+ sol none 25°C 0.0 C TIH 1976DMb (14639) 915
Kso(AgSCN)=-12.02

Data for 15-35 C. Data for 0.0025-0.025 M NaClO4, corrected to I=0.0 M.
DH(Kso)=68.58 kJ mol-1, DS(Kso)=-103.3 J K-1 mol-1.

Ag+ EMF oth/un 25°C 1.0M U T 1976PPe (14640) 916
B4=10.67
B(Ag2(SCN)6)=22.1
Kso(AgSCN)=-11.95 (I=0)

Method: Ag/Ag+ electrode. Medium: 0.01-3.5 m KSCN. Data for 50 and 70 C.
DH(Kso)=90 kJ mol-1, DH(B4)=-100 kJ mol-1, DH(Ag2(SCN)6)=-190 kJ mol-1.

Ag+ EMF oth/un 25°C 0.10M U K1=5.19 1975LMa (14641) 917

Ag+ sol NaClO4 25°C 1.00M U M 1975MAb (14642) 918
B(Ag(S2O3)(SCN))=12.07

Ag+ EMF mixed 30°C 100% U I T B2=8.7 1971BPb (14643) 919
Kso=-8.6

Medium: 2-pyrrolidinone, 0.1 M Et4NClO4

Ag+ oth mixed 25°C 80% U I B2=8.0 1971CMa (14644) 920
Kso=-7.6

Medium: DMSO/H2O, 0.1 M Et4NClO4. In 60-70% DMSO, B2=7.9. In 0%, Kso=-11.6.
40%, Kso=-9.05. 70%, Kso=-7.8

Ag+ con non-aq ? 100% U B2=8.4 1970DMa (14645) 921
B(Ag2L)=7.6
B(Ag2L3)=15.9
B(Ag3L4)=23.5
Kso=-7.6

Medium: DMSO, 0.1 M Et4NClO4

Ag+ ISE non-aq 22°C 100% U T B2=16.0 1969CLa (14646) 922

```
                                        B3=18.7
                                        Kso=-16.4
Medium: propene carbonate
-------------------------------------------------------------------------------
Ag+        ISE NaNO3  60°C  1.0M U T H                  1969GUa (14647) 923
                                        B4=8.47
                                        Kso=-9.78
K(so)=-10.15(50 C), -9.34(70 C), -8.91(80 C), -8.60(90 C).
B3=7.45(80 C), 7.17(90 C); DH(Kso)=86.6 kJ mol-1
-------------------------------------------------------------------------------
Ag+        ISE non-aq 98°C 100%  U       B2=6.5         1969GUa (14648) 924
                                        B3=7.79
                                        Kso=-7.88
Medium: acetamide, 1 M NaNO3
-------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  U       K1=5.46   B2=7.46   1969MKe (14649) 925
Medium: pyridine
-------------------------------------------------------------------------------
Ag+        vlt non-aq 40°C 100%  U  I                  1969PVb (14650) 926
                                        B3=10.7
                                        Kso=-13.7
Medium: N-methylacetamide, 0.1 M Et4NClO4; Kso=-11.2 in H2O
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U       B2=11.30       1969VKa (14651) 927
                                        Kso=-10.26
Medium: N-methyl-2-pyrrolidone
-------------------------------------------------------------------------------
Ag+        ISE non-aq 20°C 100%  U       B2=16.4        1968BBb (14652) 928
                                        Kso=-16.9
Medium: Nitromethane
-------------------------------------------------------------------------------
Ag+        ISE non-aq 30°C 100%  U     T B2=16.04       1968DLa (14653) 929
                                        Kso=-16.27
Medium:sulpholan, 0.1 M Et4NClO4
-------------------------------------------------------------------------------
Ag+        sol KNO3   20°C  2.0M U                     1968GYa (14654) 930
                                        Ks(3AgL(s)+3L=Ag3L6)=-1.35
-------------------------------------------------------------------------------
Ag+        sol non-aq 24°C 100%  U                     1968LAc (14655) 931
                                        B(Ag2L)=6.40
Medium: Me2SO, 0.5 M Et4NClO4
-------------------------------------------------------------------------------
Ag+        oth non-aq   ?  100%  U       K1=2.55   B2=4.44   1968LMa (14656) 932
                                        B3=4.49
                                        B(Ag2L)=0.15
                                        B(Ag2L2)=0.42
Method: infrared spectra. Medium: pyridine
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I   T K1=2.24   B2=3.83   1968MLa (14657) 933
                                        B3=3.69
```

B(Ag2L)=2.34
Medium: pyridine, 1.5M-pyHClO4. Without pyHClO4: K1=2.54, B2=4.6

Ag+ ISE non-aq 25°C 100% U I B2=11.9 1967AKa (14658) 934
Kso=-11.5
Medium: Me2NCHO. Kso=-13.9(MeOH),-9.9(HCONH2),-10.5(Me2NCOMe),-6.5(Me2SO),
-9.6(MeCN),-8.5((Me2N)3PO), B2=11.4(Me2NCOMe),7.4(Me2SO),9.7((Me2N)3PO).

Ag+ sol oth/un 25°C var U 1959DSb (14659) 935
B4=ca.9

Ag+ sol oth/un 20°C var U TIH 1956GOb (14660) 936
K(AgL(s)+3L=AgL4)=-0.84
B4=10.54(Ag electrode), 9.45(40 C), 8.27(60 C). DH(B4)=-106.7 kJ mol-1.
Data also for acetone/H2O mixtures

Ag+ ISE oth/un 12°C var U H 1956KLa (14661) 937
Kso=2.86-4290/T
DH=82.3 kJ mol-1; Kso: K(AgL(s)=Ag+L); temperature:12-85 C

Ag+ EMF none 25°C 0.0 U H 1956VSa (14662) 938
K(AgL(s)=Ag+L)=-12.00
DH=94.4 kJ mol-1, DS=86.9. By solubility K=-12.03

Ag+ oth KNO3 25°C 2.20M U 1955LNa (14663) 939
K(AgL(s)+L=AgL2)=-3.60
K(AgL(s)+2L=AgL3)=-2.10
K(AgL(s)+3L=AgL4)=-1.19
K(2AgL(s)+4L=Ag2L6)=-2.05
K(nAgL(s)+(n+2)L=(Ag)nL(2n+2))=-1.78-0.15n. Method: tyndallometry,
nephelometry

Ag+ sol NaClO4 25°C 4.0M U K1=4.59 B2=8.29 1955LNa (14664) 940
K(AgL(s)=Ag+L)=-12.11
K(AgL(s)=AgL)=-7.52
K(AgL(s)+L=AgL2)=-3.82
K(AgL(s)+2L=AgL3)=-2.05
K3=1.77, K4=1.20, B(Ag2L6)=22.26, K(AgL(s)+3L=AgL4)=-0.85, K(2AgL(s)+4L=
Ag2L6)=-1.96, K(nAgL(s)+(n+2)L=(Ag)nL(2n+2))=0.08n-2.13 (n>1)

Ag+ ISE none 25°C 0.0 U I K1=4.75 B2=8.23 1955LNa (14665) 941
K3=1.22
K4=0.22
K(AgL(s)=Ag+L)=-11.97
K(AgL(s)=AgL)=-7.22
K(AgL(s)+L=AgL2)=-3.74, K(AgL(s)+2L=AgL3)=-2.52, K(AgL(s)+3L=AgL4)=-2.3.

Ag+ ISE none 25°C 0.0 U H 1955SMa (14666) 942
K(AgL(s)=Ag+L)=-12.00
DH=94.0 kJ mol-1, DS=85.7 J K-1 mol-1

Ag+ sol none 20°C 0.0 U B2=9.78 1954KTa (14667) 943
B4=11.15
By Ag electrode B4=11.18

Ag+ sol oth/un 25°C var U 1954KTa (14668) 944
B4=10.70

Ag+ sol oth/un 25°C var U 1954KTa (14669) 945
B4=10.70

Ag+ ISE oth/un rt var U B2=10.60 1954KTa (14670) 946
B3=10.78

Ag+ sol oth/un 20°C var U I 1954KTa (14671) 947
K(AgL(s)+2L=AgL3)=-1.70
K(AgL(s)+3L=AgL4)=-1.17
B3=10.30
B4=10.83
[K(AgL(s)=Ag+L)=-12.00 assumed]. Also data for B2 and B3 in H2O/MeOH, EtOH and Me2CO

Ag+ ISE NaClO4 25°C 4.0M U I 1954LNa (14672) 948
K(AgL(s)=Ag+L)=-12.11
Ks(NaAgL2(H2O)2(s))=-11.79
Ks: NaAgL2(H2O)2(s)=Na+Ag+2L; at I=0 corr. Ks=-11.07

Ag+ ISE none 25°C 0.0 U 1953CHa (14673) 949
K(AgL(s)=Ag+L)=-11.95

Ag+ sol none 25°C 0.0 U I B2=8.39 1953CHa (14674) 950
K3=1.23
K4=0.28
B4=9.90
Kso=-11.9 by tyndallometry. In 2.2 M KNO3 B2=7.57, K3=1.15, K4=1.00,B4=10.08
K(AgL(s)+L)=-3.60, K(AgL(s)+2L)=-2.10, K(AgL(s)+3L)=-1.10

Ag+ ISE oth/un 20°C var U T H 1953JAb (14675) 951
Ks(AgL(s)=Ag+L)=-12.36
B4=11.19
DH(Ks)=93.3 kJ mol-1; Ks=-11.48(35 C), -10.77(50 C), -10.06(66 C).
DH(B4)=-83.7. B4=10.54(35 C), 9.81(50 C), 9.18(66 C)

Ag+ ISE none 29°C 0.0 U 1952APa (14676) 952
K(AgL(s)=Ag+L)=-11.85

Ag+ sol oth/un 25°C var U 1952YPa (14677) 953
B4=11.0
B(AgLI)=12.15
K(AgL(s)=Ag+L)=-11.94; K(AgI(s)=Ag+I)=-16.07 assumed

Ag+ kin oth/un 0°C var U H 1949JAb (14678) 954
DH(B4)=-117 kJ mol-1; temperature:0-45 C

Ag+ ISE oth/un 25°C var U 1933MAa (14679) 955
B4=10.89

Ag+ ISE oth/un 18°C 0.10M U 1930MAa (14680) 956
K(AgL(s)=Ag+L)=-12.0
Medium: KSCN

Ag+ EMF alc/w 25°C 100% U 1929BHa (14681) 957
K(AgL(s)=Ag+L)=-13.74
Medium: methanol; method: emf with Ag electrode

Ag+ EMF none 18°C 0.0 U T H 1912KIa (14682) 958
K(AgL(s)=Ag+L)=-12.31
DH=89.1 kJ mol-1. K=-11.94(25 C). Method: emf with Ag electrode
---
Ag+ sol oth/un 25°C var U 1908HIa (14683) 959
Ks(AgL)/Ks(AgCl)=-2.25
Ks(AgL)/Ks(AgBr)=0.27
Ks: K(AgL(s)=Ag+L)

Ag+ con oth/un 100°C dil U 1906BOa (14684) 960
K(AgL(s)=Ag+L)=-8.82

Ag+ sol oth/un 25°C var U 1904BEa (14685) 961
B4=11.14
K(AgL(s)=Ag+L)=-11.93 assumed

Ag+ EMF none 20°C 0.0 U B2=9.78 1904BEa (14686) 962
B4=11.18
Method: Ag electrode

Ag+ sol oth/un 25°C var U 1903ACa (14687) 963
K(AgL(s)=Ag+L)=-11.81
B(Ag(NH3)2)=7.17 assumed

Ag+ con oth/un 20°C dil U 1903BOb (14688) 964
K(AgL(s)=Ag+L)=-12.16

Ag+ EMF oth/un 25°C var U 1902KTa (14689) 965
K(AgL(s)=Ag+L)=-11.93
Method: Ag electrode

Ag+ cal oth/un 13°C dil U H 1892JOa (14690) 966
DH(AgL(s)=Ag+L)=93.9 kJ mol-1; 13.5 C
****
SO3-- H2L Sulfite CAS 7782-99-2 (801)

Sulfite;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	NaClO4	25°C	0.18M	U		B2=8.4 B(Ag(NH3)L)=8.54 B(Ag(NH3)2L)=9.24		1972JJa (15414)	967
Ag+	ISE	oth/un	25°C	var	U		B3=8.7		1963NAb (15415)	968
Ag+	ISE	oth/un	9°C	var	U	T H	K1=6.3 K3=0.52	B2=9.08	1957BCa (15416)	969
Also by solubility. Medium: Na2L. At 25 C: B2=8.68, K3=0.24. 50 C: B2=8.12, K3=-0.21; 69 C: 7.72, -0.74. By calorimetry DH(B2)=-46.0 kJ mol-1,DH(K3)=-21										
Ag+	sol	none	25°C	0.0	U		K1=5.60 B3=9.00 Kso(Ag2L)=-13.86	B2=8.68	1956CDc (15417)	970
I=0 corr. Also by Ag electrode										
Ag+	sol	oth/un	20°C	var	U	T H	B2=8.33		1956KLa (15418)	971
B2=8.07(42 C), 7.85(60 C). DH(B2)=-22.6 kJ mol-1										
Ag+	ISE	NaNO3	25°C	2.0M	U		K1=5.4	B2=7.8	1955TSb (15419)	972
Ag+	sol	oth/un	29°C	var	U	T H	B2=8.21		1951JSa (15420)	973
Also by Ag electrode. B2=4.634-1082/T=8.56(1.6 C),8.45(10.2 C), 8.33(20.2 C) 8.08(39.9 C), 7.97(50.5 C). DH(B2)=-20.7 kJ mol-1; DS=88.7 J K-1 mol-1										
Ag+	sol	oth/un	25°C	var	U	M	K(AgCl(s)+2L=AgL2+Cl)=-1.29		1941TGb (15421)	974
Ag+	sol	none	25°C	0.0	U	M	B2=8.52 K(AgCl(s)+2L=AgL2+Cl)=-1.24		1930RHa (15422)	975
Ag+	sol	oth/un	25°C	var	U		B2=8.40		1912LLa (15423)	976

****

SO4-- H2L Sulfate CAS 7664-93-9 (15)

Sulfate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	non-aq	30°C	100%	C	I	Kso(Ag2SO4)=-17.94		1986RKa (15783)	977
Medium: dioxane. Data for 0-1.0 mole fraction Me2SO in dioxane.										
Ag+	sol	NaNO3	25°C	0	U	T H			1976MSc (15784)	978
Ks=-4.85. Ks=11.464 - 3055/T - 0.2034T. DH=23.9 kJ mol-1										

```
Ag+        sol mixed  25°C  20%  U  I                    1973ESa (15785) 979
                                        Kso=-7.09
Medium: DMSO/H2O. 0% DMSO: Kso=-5.00; 10%:-6.13; 30%:-7.95; 50%:-9.39;
80%:-11.37; 100%:-12.68. m units
-------------------------------------------------------------------------------
Ag+        EMF KNO3   390°C    ?  U T      K1=1.12       1973VBb (15786) 980
                                        K(Ag+AgL)=0.9
Medium: molten KNO3; unit: Temkin fraction. At 349 C: K1=1.12
-------------------------------------------------------------------------------
Ag+        oth none   50°C  0.0  U T      K1=1.4        1969HEa (15787) 981
Estimated from literature data. K1=1.4(60 C), 1.6(100 C), 1.9(150 C),
2.2(200 C)
-------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  3.0M U        K1=0.24   B2=0.3    1969MMc (15788) 982
-------------------------------------------------------------------------------
Ag+        oth none   25°C  0.0  U T                    1968KRa (15789) 983
                                        Kso=-4.84
Evaluated from literature data. Kso=-4.63(50 C), -4.52(100 C), -4.71(150 C),
-5.10(200 C)
-------------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C  2.0M U        K1=0.31   B2=0.19   1967CCd (15790) 984
                                        B3=0.40
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  0.0  U T                    1967LHa (15791) 985
                                        Kso=-4.81
Kso=-4.67(50 C), -4.58(75 C), -4.54(100 C)
-------------------------------------------------------------------------------
Ag+        cal oth/un 25°C  0.0  U   H                  1965HWe (15792) 986
Medium:0 corr.  DH(K1)=6.27 kJ mol-1 DS=46 J K-1 mol-1; DHso=17.2, DS=-37
Method: from thermodynamic data
-------------------------------------------------------------------------------
Ag+        ISE non-aq 650°C 100%  U        K1=1.5        1963WHa (15793) 987
Medium: (Li/K)SO4 eutectic. K1=1.4 to 1.5, x units
-------------------------------------------------------------------------------
Ag+        sol non-aq 275°C 100%  U T      K1=0.3        1962SIc (15794) 988
Medium: (Na/K)NO3 eutectic. K1=0(300, 325 C), m units
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  0.0  U T H                  1960SLa (15795) 989
                                        Kso(Ag2L)=-4.835
Kso=-4.62(50 C), -4.54(75 C), -4.53(100 C), -4.59(125 C), -4.71(150 C),
-5.11(200 C). DH(so)=18.7 kJ mol-1, DS=-29.8(25 C); DH=-40.3,DS=-183(200 C)
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  0.0  U T                    1959PLa (15796) 990
                                        Kso(Ag2L)=-4.92
25 to 60 C. Kso=491.1/T=11.305+0.0159T (T in Kelvin)
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  0.0  U                      1957KEc (15797) 991
                                        Kso(Ag2L)=-4.77
-------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  0.0  U T                    1954TOa (15798) 992
```

```
                                        Kso(Ag2L)=-4.86
I=0 corr. Kso=-4.97(18 C), -4.82(31 C)
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  3.0M U        K1=0.23   B2=0.28   1952LEb (15799) 993
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  0.0  U                          1943VMa (15800) 994
                                        Kso(Ag2L)=-4.80
--------------------------------------------------------------------------------
Ag+        con oth/un 18°C  0.0  U        K1=1.3          1930RDa (15801) 995
********************************************************************************
S2O3--                H2L    Thiosulfate      CAS 73686-28-7  (177)
Thiosulfate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   23°C 0.10M U        K1= 9.47  B2=13.15  1991TEa (16723) 996
                                        B3=15.46
                                        B(Ag2L3)=24.01
                                        B(Ag3L4)=37.81
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 1.00M U T HM   K1=8.49   B2=12.2   1986MLa (16724) 997
DH(K1)=-45.2 kJ mol-1; DH((B2)=-33.1; DS(K1)=25.1 J K-1 mol-1;
DS(B2)=121.4. Ternary complexes with SCN and NH3 ligands
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 1.00M U T HM   K1=9.10   B2=12.39  1985MMd (16725) 998
DH(K1)=-60.8 kJ mol-1; DH(B2)=-73.0; DS(K1)=-29.7 J K-1 mol-1; DS(B2)=-8.0
Ternary complexes with: thiourea, chloride, iodide
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C        K1=9.52   B2=13.08  1985YWa (16726) 999
--------------------------------------------------------------------------------
Ag+        EMF KNO3   20°C  1.0M C    M   K1=9.66   B2=12.78  1984DBb (16727)1000
                                           B(Ag(tu)L)=12.13
                                           B(Ag(tu)2L)=13.80
                                           B(Ag(I)L)=12.67
                                           B(Ag(tu)(I)L)=14.36
tu is thiourea.  B(Ag(tu)L2)=13.81.  Method: Ag/Ag+ electrode.
--------------------------------------------------------------------------------
Ag+        EMF R4N.X  25°C  1.0M C        K1=8.38   B2=11.86  1984DBc (16728)1001
Method: Ag/Ag(I) electrode. Medium: 1.0 M NH4NO3.
--------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C 0.30M U    M   K1=9.3    B2=12.4   1982TMb (16729)1002
                                           B3=13.8
Medium: LiNO3. In 60% w/w acetone/H2O, K1=11.6, B2=14.6, B3=16.7
--------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 1.00M C T  M   K1=9.81   B2=12.5   1980MBa (16730)1003
                                           B(AgL(thiourea))=11.77
                                           B(AgLNCS)=10.38
                                           B(AgL2NCS)=13.94
                                           B(AgL(NCS)2)=11.81
Data also at 5, 10, 20 and 30 C.
```

Method: Ag/Ag+ electrode

Ag+ EMF KNO3 25°C 1.00M C T M 1980MBa (16731)1004
B(AgL2(thiourea))=10.42
B(AgL(thiourea)NCS)=13.03
B(AgL(thiourea)(NCS)2)=13.69
B(AgL(thiourea)2)=13.85
B(AgL(thiourea)2NCS)=15.20. Data also at 5, 10, 20 and 30 C.

Ag+ sol NaClO4 25°C 1.00M U M 1975MAb (16732)1005
B(Ag(S2O3)(SCN))=12.07

Ag+ ISE KNO3 25°C 1.00M C T HM K1=9.23 B2=12.50 1974BMb (16733)1006
B(AgLA)=11.96
B(AgL2A)=14.16
B(AgLA2)=13.35
DH(K1)=-58.9 kJ mol-1, DH(B2)=-80, DH(AgLA)=-79, DH(AgL2A)=-112, DH(AgLA2)=
-90. A=thiourea. Data also at 10 C and 30 C

Ag+ sol oth/un 25°C 0.0 U T B2=13.83 1974GHb (16734)1007
B2=13.55(35 C); 14.18(45 C)

Ag+ ISE KNO3 25°C 0.10M U B2=13.2 1974MKd (16735)1008

Ag+ ISE NaNO3 25°C 1.0M U I B2=13.0 1972PRa (16736)1009
B(Ag2L3)=24.5
B(Ag3L4)=38.2
When I=2 M NaNO3: B2=12.83, B(Ag2L3)=23.9, B(Ag3L4)=ca.38; when I=0 (corr):
B2=13.64, B(Ag2L3)=25.9, B(Ag3L4)=40.0

Ag+ oth oth/un 25°C 0? U K1=8.9 B2=13.50 1969MAc (16737)1010
K3=0.8

Ag+ ISE oth/un 25°C 1.0M U M B2=12.63 1967BPf (16738)1011
B3=12.76
B(AgL2Cl)=10.84
B(AgL2Br)=12.02
B(AgL2I)=13.25
B(AgL2(CN)=15.68; B(AgLBr2)=11.30, B(AgLI2)=13.62; B(AgLBr3)=9.99,
B(AgLI3)=13.52, B(AgL(CN)2)=21.28; B(AgL2(CN)2)=18.15

Ag+ sol NaClO4 25°C 4.00M U M K2=5.36 1958NIa (16739)1012
K3=0.79
B(Ag2L4)=26.3
B(Ag3L5)=39.85
B(Ag6L8)=78.62
Ks(NaAgLH2O=(Na+H2O)+Ag+L)=-13.24, K(NaAgLH2O(s)=(Na+H2O)+AgL)=-5.89,
K(NaAgLH2O(s)+L=(Na+H2O)+AgL2)=-0.52, Kso(NaAgLH2O)=-12.64

Ag+ ISE none 25°C 0.0 U T H B2=13.46 1957CHe (16740)1013

B2=13.00(35 C), 12.43(50 C), 11.68(68 C) B2=4166*T-0.510
DH(B2)=-79.7 kJ mol-1, DS=-9.6 J K-1 mol-1

Ag+ ix oth/un 25°C 1.0M U 1957MAb (16741)1014
K3=0.4

Ag+ ISE oth/un 70°C var U H K1=7.44 B2=11.60 1955CPa (16742)1015
DH(K1)=-54.8 kJ mol-1, DH(K2)=-18.8

Ag+ sol oth/un 25°C dil U K1=8.87 1953CPa (16743)1016

Ag+ ISE none 20°C 0.0 U K1=8.82 B2=13.46 1953CPa (16744)1017
K3=0.69

Ag+ ISE NaNO3 20°C 0.20M U K1=10.00 B2=13.36 1953JAb (16745)1018

Ag+ sol oth/un ? var U M 1952YPa (16746)1019
B(AgClL)=10.15
B(AgBrL)=12.39
B(AgIL)=14.57

Ag+ sol none 25°C 0.0 U K1=2.40 1951DMb (16747)1020

Ag+ ISE oth/un 21°C 0.30M U T B2=13.17 1949BRa (16748)1021
Medium:0.3-0.4 Na2L. B2=13.19(17 C), 12.78(30 C)

Ag+ kin oth/un 25°C var U H 1949JAb (16749)1022
0-45 C. DH(B2)=-80 kJ mol-1

Ag+ ISE NaClO4 25°C 2.00M U B2=12.78 1946OAa (16750)1023
K3=0.28
B(Ag2L2)=22.1?

Ag+ ISE oth/un rt? var U B2=13.3 1936FRa (16751)1024

Ag+ ISE oth/un 25°C var U B2=13.73 1933MAa (16752)1025

Ag+ sol oth/un 5°C dil U T H 1931CRa (16753)1026
K1.Kso(AgCl)=-1.36
K1.Kso=-0.60(45 C). DH(K1)=-32.2 kJ mol-1

Ag+ ISE oth/un ? var U K1=13.38 1924PAa (16754)1027

Ag+ ISE oth/un ? var U B2=12.99 1903BOa (16755)1028
K3=0.55
Medium: Na2L

****

Se-- H2L Selenide (6335)
Selenide;

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        sol NaClO4 25°C  1.0M U                         1970MGa (16934)1029
                                       K(2Ag+HL+OH)=48.5
                                       K(Ag+2L+OH)=24.1
Method: Ag2Se solubility using 110Ag tracer
--------------------------------------------------------------------------
Ag+        oth none   25°C  0.0  U                         1964BUe (16935)1030
                                       Kso=-63.7
**************************************************************************
SeCN-                  HL    Selenocyanate    CAS 73102-11-2  (440)
Selenocyanate;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        EMF none   25°C  0.0  U T H                     1974DSb (16961)1031
                                       Kso(AgL(s)=Ag+L)=-14.01
DH(Kso)=107.9 kJ mol-1, DS=94.6 J K-1 mol-1. Kso=-13.41(35 C), -13.12(40 C),
-12.83(45 C); -12.56(50 C)
--------------------------------------------------------------------------
Ag+        sol KNO3   20°C  2.0M U T                      1965GSc (16962)1032
                                       Ks(AgL(s)+2SCN)=-1.62
                                       Ks(AgI(s)+2L)=-0.4
At 25 C, Ag electrode: B(AgL3I)=14.5, B(AgL3(SCN))=13.4, BAgLI3)=14.66
--------------------------------------------------------------------------
Ag+        sol oth/un 20°C  var  U  I                     1961GSa (16963)1033
                                       B(Ag2L)=11.7
                                       B(Ag3L)=12.23
                                       B(Ag4L)=12.32
Medium: AgClO4 at various concentrations. In AgNO3: B(Ag2L)=11.7, B(Ag3L)=
12.25, B(Ag4L)=12.04
--------------------------------------------------------------------------
Ag+        ISE alc/w  20°C  35%  U  I     B2=13.86        1961GSd (16964)1034
Medium: 35% w/w MeOH/H2O with KL at various conc.; B2=13.78(0%), 14.25(56%)
14.60(74%); B4=15.13(74%), 15.61(83%), 16.45(92%), 16.96(100%); Ag electrode
--------------------------------------------------------------------------
Ag+        ISE KNO3   20°C    ?  U  I                     1959GPb (16965)1035
                                       B3=13.79
In 7 M acetone/H2O: B3=14.58, B4=14.80
--------------------------------------------------------------------------
Ag+        ISE NaNO3  25°C 0.30M U        B2=10.7         1956TOa (16966)1036
                                       B3=13.90
--------------------------------------------------------------------------
Ag+        ISE none   18°C  0.0  U                         1930BHa (16967)1037
                                       K(AgL(s)=Ag+L)=-15.40
**************************************************************************
SeO3--                 H2L    Selenite         CAS 7783-00-8  (2391)
Selenite;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

```
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  dil  C                      1993SPb (17023)1038
                                        Kso(Ag2SeO3)=-15.76
Method: [Ag] determined by ion selective electrode. Medium: dil HNO3.
--------------------------------------------------------------------------------
Ag+        sol NaClO4 25°C  1.0M U        K1=2.42   B2=3.76   1969MGe (17024)1039
                                        Kso=-15.58
--------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U   H                1962SLb (17025)1040
                                        Kso(Ag2L)=-15.55
DH(so)=44.7 kJ mol-1; DS=-147
--------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U                    1961LPc (17026)1041
                                        Kso(Ag2L)=-14.74
--------------------------------------------------------------------------------
Ag+        sol oth/un 20°C  var  U                    1956CHe (17027)1042
                                        Kso(Ag2L)=-15.01
********************************************************************************
SeO4--                H2L    Selenate         CAS 7783-08-6  (459)
Selenate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U   H                1959SZb (17091)1043
                                        Kso(Ag2L)=-8.91
I=0 corr. By calorimetry DH(so)-43.4 kJ mol-1
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  dil  U                    1942GKa (17092)1044
                                        Kso(Ag2L)=-7.25
********************************************************************************
Te--                  H2L    Telluride          (472)
Telluride;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        oth oth/un 25°C  0.0  U                    1964BUe (17254)1045
                                        Kso=-71.7
Estimated. Kso=-33.3(Zn++), -41.5(Cd++), -69.6(Hg++), -39.2(Tl+),
-44.7(Sn++), -46.3(Pb++)
********************************************************************************
TeO3--                H2L    Tellurite        CAS 10049-23-7  (1165)
Tellurate(IV)
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  1.0M U        B2=4.34          1972MKa (17271)1046
                                        Kso=-17.85
--------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C  0.0  U                    1965GPa (17272)1047
                                        Kso(Ag2L)=-2.43
```

Ks(Ag2H2L2)=-7.95
Ks(Ag7(OH)5L)=-5.6(?)

****

VO4--- H3L CAS 15457-75-7 (1586)
Vanadate; VO2(OH)3-- or polymers

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	20°C	var	U			1930BRa	(17371)1048
							Ks(AgHL=H+HL)=-6.3		
							Ks(Ag2L)=-13.7		
							Ks(Ag3L2(OH))=-24		

****

WO4-- H2L Tungstate CAS 13783-36-3 (445)
Tungstate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	NaNO3	25°C	0.50M	U	I		1982JBa	(17422)1049
K(6Ag2L(s)+7H = 12Ag+HW6O21+3H2O) = -3.68									
Ag+	sol	oth/un	25°C	dil	U			1980GSb	(17423)1050
							Ks(Ag2WO4)=-10.67		
ISE also used									
Ag+	sol	NaNO3	25°C	1.00M	C	TIH		1980JBa	(17424)1051
K(6Ag2WO4(s)+7H+=12Ag+HW6O21+3H2O)=-2.1									
Ag+	cal	none	25°C	0.0	U	H		1958GHa	(17425)1052
DH(Kso(Ag2L))=61.5 kJ mol-1									
Ag+	ISE	none	25°C	0.0	U	T H		1954PAa	(17426)1053
							Kso(Ag2L)=-11.26		
DH(Kso)=50.7 kJ mol-1(25 C). Kso=-11.42(20 C), -11.11(30 C), -10.83(40 C)									
Ag+	ISE	oth/un	18°C	var	U			1934BGa	(17427)1054
							Kso(Ag2L)=-9.28		

****

CH2I2 L Di-iodomethane CAS 75-11-6 (2962)
Methylene iodide; CH2I2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	25°C	?	U		K1=1.31	1951AKb	(17472)1055

****

CH4N2S L Thiourea CAS 62-56-6 (51)
Thiocarbamide, Thiourea; (H2N)2CS

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

```
Ag+        ISE NaClO4 25°C 0.10M U        K1=6.2    B2=11.2   1996MTa (17741)1056
                                          B3=13.4
                                          B(Ag2L)=9.1
                                          B(Ag2L2)=16.1
                                          B(Ag2L3)=21.7
Medium: 0.1 M HClO4;  Ag-electrode
-------------------------------------------------------------------------------
Ag+        EMF alc/w  25°C 100%  M T H    K1=9.86   B2=13.88  1994MGa (17742)1057
                                          B3=16.46
Medium: EtOH, 0-40 C. DH(K1)=-107 kJ mol-1, DS=-171 J K-1 mol-1; DH(B2)=-46,
DS=+110; DH(B3)=-138, DS=-147. Method:Ag elect. Other alkyl-thioureas also
-------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C  1.0M U T HM   K1=7.59   B2=10.35  1993MGa (17743)1058
                                          B(AgLCl)=8.33
                                          B(AgLCl2)=8.57
                                          B(AgLBr)=9.36
                                          B(AgLBr2)=10.39
B(AgL2Br)=12.53, B(AgLI)=11.82. 0-35 C. DH(K1)=-65 kJ mol-1,DS=-73 J K-1 m-1
Data also for other mixed complexes
-------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C  1.0M U T HM   K1=5.67   B2=7.44   1992MMc (17744)1059
                                          B(AgLCl)=6.12
                                          B(AgL2Cl)=8.90
                                          B(AgLBr)=7.05
                                          B(AgL2Br)=9.11
B(AgLI)=1o.03 etc. 0-35 C. DH(K1)=-82 kJ mol-1,DS=-167 J K-1 mol-1; DH(B2)=
-64, DS=-71. Data also for other mixed complexes
-------------------------------------------------------------------------------
Ag+        EMF alc/w  25°C 100%  M T H    K1=8.63   B2=13.09  1990MMf (17745)1060
                                          B3=15.94
Medium: MeOH, 0-40 C. DH(K1)=-127 kJ mol-1, DS=-261 J K-1 mol-1; DH(B2)=-66,
DS=+24; DH(B3)=-118, DS=-92. Method:Ag electrode. Other alkyl-thioureas also
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C       C        B2=10.1        1990TMa (17746)1061
                                          B3=11.7
Medium 0.4 M LiNO3 in 100% DMSO
Also for  100% H2O B2=10.7; B3=12.8; B4=13.5
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 1.00M U                      1986GKa (17747)1062
                                          B3=13
-------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 1.00M U        K1=6.05   B2=10.71  1986KPa (17748)1063
                                          B3=12.56
                                          B4=13.95
                                          B(Ag2L6)=31.09
-------------------------------------------------------------------------------
Ag+        ISE KNO3    0°C 1.00M U    M   K1=7.87   B2=11.92  1985MMc (17749)1064
mixed complexes: with thioacetamide: B(AgLA)=11.92; with cloride: B=8.45;
B(AgLA2)=9.78; with bromide B=8.76; B(AgL2A)=13.69
-------------------------------------------------------------------------------
```

Ag+ ISE KNO3 25°C 1.00M U T HM K1=8.09 B2=10.53 1985MMd (17750)1065
B3=12.87
DH(K1)=-66.2 kJ mol-1; DH(B2)=-87.4; DH(B3)=-106.4,
DS(K1)=-67.4 J K-1 mol-1; DS(B2)=-91.7; DS(B3)=-110.8

Ag+ EMF KNO3 20°C 1.0M C T M K1=9.25 B2=10.21 1984DBb (17751)1066
B3=12.48
B(Ag(I)L)=12.12
B(Ag(I)2L)=14.12
Also ternary complexes with thiosulfate. At 5 C, K1=8.16, B2=10.60,
B3=13.25. Method: Ag/Ag+ electrode.

Ag+ ISE oth/un 25°C 0.10M U I K1=5.55 B2=10.54 1984PKa (17752)1067

Ag+ EMF oth/un 25°C 0.40M U I K1=7.1 B2=10.7 1981TMc (17753)1068
B3=12.8
B4=13.5
In w/w 80% acetone/H2O: K1=9.6; B2=12.4; B3=14.4; B4=15.5

Ag+ EMF KNO3 25°C 1.00M C T M K1=8.77 B2=11.29 1980MBa (17754)1069
B3=13.92
B(AgLNCS)=13.89
B(AgL(NCS)2)=11.24
B(AgL(NCS)3)=12.44
B(AgL2NCS)=12.40; B(AgL4(NCS)2)=13.20. Data also at 5, 10, 20 and 30 C
Method: Ag/Ag+ electrode

Ag+ ISE mixed 25°C 82% U K1=8.85 B2=11.35 1979TBa (17755)1070
B3=13.82
Medium: 82% formamide

Ag+ ISE mixed 25°C 0.20M U I K1=10.35 B2=11.90 1978BMb (17756)1071
B3=13.34
Medium: 40 mol/l H2O in H2O/Dimethylformamide mixed solvent

Ag+ EMF NaClO4 25°C 0.02M C H K1=6.46 B2=10.90 1976MHc (17757)1072
B3=12.88
B(Ag2L3)=20.73
Method: Ag electrode. By calorimetry: DH(K1)=-81 kJ mol-1; DH(B2)=-113,
DS(B2)=-171 J K-1 mol-1; DH(B3)=-127, DS(B3)=-181, DH(Ag2L3)=-217.

Ag+ ISE KNO3 25°C 1.00M U T H K1=7.69 B2=10.47 1974BMb (17758)1073
B3=12.88
DH(K1)=-38.7 kJ mol-1, DH(B2)=-28.8, DH(B3)=-26.1. Data also at 10 and 30 C

Ag+ EMF none 25°C 0.00 U TI K1=7.30 B2=10.60 1973BMf (17759)1074
B3=12.80
B4=13.72
35 C, K1=6.52, B2=9.92, B3=12.03, B4=12.97. 45 C, K1=5.60, B2=9.34,
B3=11.59, B4=12.15. Data also in 0.25 KNO3, 0.75 KNO3

```
--------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.25M U TI     K1=7.30   B2=10.36  1973BMf (17760)1075
                                          B3=12.74
                                          B4=13.64
35 C, K1=6.48, B2=9.92, B3=12.22, B4=12.92.  45 C, K1=5.60, B2=9.34,
B3=11.56, B4=12.04
--------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.75M U TI     K1=7.30   B2=10.60  1973BMf (17761)1076
                                          B3=12.68
                                          B4=13.78
35 C, K1=6.40, B2=9.92, B3=11.98, B4=12.95.  45 C, K1=5.60, B2=9.34,
B3=11.53, B4=12.16
--------------------------------------------------------------------------------
Ag+        EMF KNO3     ?  0.50M U        K1=7.26   B2=9.83   1971BMc (17762)1077
                                          B3=11.09
                                          B4=11.02
--------------------------------------------------------------------------------
Ag+        ISE KNO3   30°C 0.50M U T      K1=7.04   B2=10.52  1969BLa (17763)1078
                                          K3=2.06
                                          K4=0.68
10 C: K1=7.00, K2=4.29, K3=2.11, K4=0.97
--------------------------------------------------------------------------------
Ag+        EMF mixed    ?   25%  U  I                    1969NPc (17764)1079
                                          B3=14.11
Medium: 25-85% acetone
B3(50%)=14.67, B3(75%)=15.42, B3(85%)=15.77
--------------------------------------------------------------------------------
Ag+        EMF diox/w   ?   25%  U  I                    1969NPc (17765)1080
                                          B3=14.08
50% Dioxan/H20, B3=14.70; 75%, B3=15.37; 85%, B3=15.65
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  85%  U  I                    1967NPe (17766)1081
                                          B3=15.61
Medium:85% MeOH, 0.4(LiNO3). B3=13.48(0%), 14.10(25%), 14.52(50%),15.18(75%)
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  85%  U  I                    1967NPe (17767)1082
                                          B3=15.66
Medium: 85% EtOH, 0.4 M LiNO3. B3=14.22(25%), 14.62(50%), 15.37(75%)
In propanol: B3=14.13(25%), 14.62(50%), 15.17(75%), 15.57(85%)
--------------------------------------------------------------------------------
Ag+        ISE diox/w 28°C  80%  U                    1964KKa (17768)1083
                                          B3=13.6
Medium: 80% dioxan, 2 M NH4NO3
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  40%  U                    1961TKb (17769)1084
                                          B3=13.2
Medium: 40% EtOH, 0.052 M NaC2H3O2
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  0.0  U                    1955FYa (17770)1085
                                          B3=13.05
```

```
--------------------------------------------------------------------------------
Ag+        con oth/un 20°C 0.03M U                      1924PAa (17771)1086
                                          B3=13.9
********************************************************************************
CH5N                    L    Methylamine      CAS 74-89-5  (155)
Methylamine; CH3.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 1.00M U        K1=3.106  B2=6.806  1993GYa (17997)1087
                                          B(AgH-1L2)=-5.30
--------------------------------------------------------------------------------
Ag+        gl  KCl    25°C 0.10M U        K1=3.06   B2=6.78   1980HAa (17998)1088
--------------------------------------------------------------------------------
Ag+        gl  none   25°C 0.00  U        K1=3.18   B2=7.14   1971HTa (17999)1089
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C    ?  U        B2=8.86        1964SDb (18000)1090
Medium: Cl-. In Br-: B2=6.67
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  90%  U  I     B2=7.51        1963PLa (18001)1091
Medium: 90% MeOH.  B2=6.72(0%), 7.10(30%), 7.13(50%), 7.15(60%), 7.43(80%)
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  0.0  U        B2=6.79        1955FYb (18002)1092
--------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C 0.50M U        K1=3.15   B2=6.68   1950BJa (18003)1093
--------------------------------------------------------------------------------
Ag+        ISE oth/un 18°C 0.02M U        B2=7.06        1935BWa (18004)1094
By solubility, B2=7.16
--------------------------------------------------------------------------------
Ag+        sol oth/un 16°C 0.10M U        B2=6.98        1933TAa (18005)1095
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C <0.1  U        B2=6.79        1903BEa (18006)1096
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C <0.2  U        B2=6.81        1903EUa (18007)1097
At I=0.02 M, 18 C: B2=7.05
********************************************************************************
CH5N3S                  L                    CAS 79-19-6  (372)
Thiosemicarbazide; H2N.CS.NH.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C 0.10M C   H    K1=7.50   B2=11.41  1976BBg (18064)1098
                                          B3=13.28
                                          B(Ag2L3)=21.58
Method:Ag electrode. Calorimetry: DH(K1)=-93.9 kJ mol-1, DS(K1)=-172 J K-1
mol-1;DH(B2)=-109, DS=-148; DH(B3)=-122,  DS=-153; DH(Ag2L3)=-199, DS=-253
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  0.1M C  I     K1=7.55   B2=10.67  1976BBh (18065)1099
                                          B3=12.33
                                          B4=13.61
```

In 50% EtOH w/w, 0.1 M NaClO4: K1=7.93, B2=11.05, B3=13.05, B4=14.97
In 50% acetone: K1=8.62, B2=11.62, B3=13.19, B4=14.65. Also in 25% acetone

---

Ag+ ISE alc/w 25°C 40% U 1961TKb (18066)1100
B3=13.3
Medium: 40% EtOH, 0.05 NaC2H3O2

Ag+ ISE NaNO3 20°C 0.80M U T 1960TKa (18067)1101
B4=13.35
B4=13.10(25 C), 12.85(30 C), 12.42(40 C), 12.03(50 C)

****

C2H2 L Acetylene CAS 74-85-1 (703)
Ethyne; HCCH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	25°C	0.0	U		K1=1.63 Kso(AgL(OH))=-19.29	1965TUa	(18353)1102

****

C2H2Br2 L CAS 540-12-5 (4212)
cis-1,2-Dibromoethylene; Br.CH:CH.Br

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	1.00M	U		K1=-0.17	1969OFa	(18358)1103

****

C2H2Br2 L CAS 590-12-5 (4213)
trans-1,2-Dibromoethylene; Br.CH:CBr.H

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	1.00M	U		K1=-0.25	1969OFa	(18359)1104

****

C2H2Cl2 L CAS 156-59-2 (4210)
cis-1,2-Dichloroethylene; Cl.CH:CH.Cl

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	1.00M	U		K1=-0.60	1969OFa	(18360)1105

****

C2H2Cl2 L CAS 156-60-5 (4211)
trans-1,2-Dichloroethylene; Cl.CH:CCl.H

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	1.00M	U		K1=-0.38	1969OFa	(18361)1106

****

C2H2I2 L CAS 590-27-2 (2963)
cis-Di-iodoethene, cis-Di-iodoethylene; ICH:ICH

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        sol oth/un 25°C    ?  U        K1=1.25   B2=1.28   1951AKb (18362)1107
*************************************************************************
C2H2I2                  L                      CAS 590-26-1  (2964)
trans-Di-iodoethene, trans-Di-iodoethylene; ICH:CHI
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        sol oth/un 25°C    ?  U        K1=0.74   B2=1.10   1951AKb (18363)1108
*************************************************************************
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
-------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C  1.0M C        K1=<0.9        1983MAe (18658)1109
Additional method: Ag ion selective electrode.
-------------------------------------------------------------------------
Ag+        sol KNO3   25°C  2.0M U    M                  1963FVa (18659)1110
                                          B(Ag(en)L)=7.2
-------------------------------------------------------------------------
Ag+        dis NaClO4 20°C 0.10M U        K1=  2.0       1963STc (18660)1111
-------------------------------------------------------------------------
Ag+        EMF oth/un 25°C    ?  U        K1=2.41        1960CIa (18661)1112
*************************************************************************
C2H3N                   L    Cyanomethane     CAS 75-05-8  (1399)
Acetonitrile; CH3.CN
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        nmr oth/un 23°C 0.10M U        K1=0.16   B2=0.71   1982FTa (19173)1113
-------------------------------------------------------------------------
Ag+        con oth/un 25°C    ?  U        K1=1.85        1975JMa (19174)1114
Using laser Raman: K1=1.92, B2=0.10
-------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 0.10M U        K1=2.6    B2=4.4    1974SMa (19175)1115
-------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 0.01M U  I     K1=0.7    B2=0.8    1967MId (19176)1116
Medium:0.01(?) LiCLO4.In MeOH: K1=1.1,B2=1.2,B3=1.2; Butan-2-ol: K1=1.0,
B2=1.4,B3=1.3; acetone: K1=1.0,B2=1.5,B3=1.6; nitroethane:K1=1.1,B2=2.8
-------------------------------------------------------------------------
Ag+        kin oth/un 40°C 0.01M U        K1=0.89        1964YKb (19177)1117
-------------------------------------------------------------------------
Ag+        sol oth/un 25°C  0.0  U        K1=0.75        1964YKb (19178)1118
-------------------------------------------------------------------------
Ag+        ISE oth/un 20°C 0.01M U        B2=1.23        1924PAa (19179)1119
*************************************************************************
C2H3N3                 HL    1,2,4-Triazole   CAS 288-88-0  (381)
1,2,4-Triazole; cyclo(-NH.N:CH.N:CH-)  C2H3N3
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	M			1986BGa	(19223)1120
							K(Ag+HL)=2.21		
							K(AgHL+HL)=2.29		
Ag+	gl	KNO3	25°C	0.50M	U			1979BBa	(19224)1121
							K(Ag+HL)=2.60		
							K(AgHL+HL)=1.78		

C2H3O2Cl HL Chloroacetic CAS 79-11-8 (34)
Chloroethanoic acid; ClCH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	25°C	->0	U		K1=0.64 B2=0.53	1952MTa	(19342)1122
Ag+	ISE	oth/un	30°C	->0	U		K1=0.58 B2=0.91	1949PHa	(19343)1123

C2H4 L Ethylene CAS 74-85-1 (478)
Ethene; H2C:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	none	40°C	0.0	U	T H	K1=1.34	1984DWa	(19421)1124

Method: Gas-Liquid Chromatography

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	none	30°C	0.00	U		K1=1.88	1970CBa	(19422)1125

0.945 atm. C2H4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	kin	oth/un	25°C	1.0M	U	M	K1=1.97	1959BRa	(19423)1126
							K(AgA+L)=1.76		
							K(AgA2+L=AgAL+A)=0.42		
							K(AlL(OH)+H)=8.7		

Medium: CF3COONa. A=triethanolamine

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	oth/un	25°C	1.0M	U		K1=1.93	1952TLa	(19424)1127
							K(AgL+Ag)=-0.82		

C2H4N2 L CAS 6011-14-9 (5501)
(Cyanomethyl)amine; CN.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	oth/un	25°C	0.50M	U		K1=1.90 B2=3.21	1983HNa	(19440)1128

Medium: 0.5 M LHNO3

C2H4N2S2 L Rubeanic acid CAS 79-40-3 (2782)
Dithiooxamide; H2N.CS.CS.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	none	25°C	0.0	C	T H	K1=23.3		2002DZa	(19451)1129

Method: Ag electrode. Data for 5-45 C. DH(K1)=-45.8 kJ mol-1, DS(K1)=44.3 J K-1 mol-1.

****

C2H4N4 HL CAS 584-13-4 (819)

4-Amino-1,2,4-triazole; C2H2N3.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	M				1986BGa	(19485)1130
							K(Ag+HL)=2.30			
							K(AgHL+HL)=2.13			

****

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
Ag+	sol	non-aq	30°C	100%	C	I			1986RKb	(19780)1131
							Kso(AgL)=-10.04			

Medium: dioxane. Data for 0-1.0 mole fraction Me2SO in dioxane.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	con	none	25°C	0.0	U	I			1980ASa	(19781)1132
							Kout=1.23			

Data also in 10, 20, 30, 40 and 50% w/w MeOH/H2O

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	mixed	25°C	80%	U	I	B2=5.2		1971CMa	(19782)1133

Medium: 80% DMSO, 0.1 M Et4NClO4. In 90% dioxan: B2=6.2, 95%, B2=6.8

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	U		B2=8.4		1970DMa	(19783)1134

Medium: DMSO, 0.1 M

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	U	I	B2=10.9		1967AKa	(19784)1135

Mdium : DMF. In dimethylacetamide, B2-10.6, In dimethylsulfoxide, B2=5.8

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	NaClO4	25°C	3.0M	U		K1=0.36	B2=0.11	1964PCa	(19785)1136
							B3=-0.14			

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	alc/w	25°C	30%	U	I	K1=1.31	B2=1.72	1952MTa	(19786)1137

Medium: 30% EtOH. K1=0.73(0%),0.89(10%),1.10(20%); B2=0.64(0%),1.0(10%),1.25 (20%)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	mixed	25°C	30%	U	I	K1=1.26	B2=1.75	1952MTa	(19787)1138

Medium: 30% acetone. K1=0.88(10%), 1.10(20%); B2=0.92(10%), 1.24(20%)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.0	U		K1=0.73	B2=0.64	1952MTa	(19788)1139

```
Ag+        sol oth/un 25°C  0.0  U        B2=0.64        1951DMa (19789)1140
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 20°C  0.0  U        K1=0.37   B2=0.17   1946LEa (19790)1141
                                         K3=0.65
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  0.0  U        B2=0.64        1942MAa (19791)1142
                                         B(Ag2L)=1.14
********************************************************************************
C2H4O3                 HL    Glycolic acid    CAS 79-14-1  (33)
2-Hydroxyethanoic acid; HO.CH2.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C  3.0M U        K1=0.30   B2=0.36   1964PCa (20466)1143
********************************************************************************
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
--------------------------------------------------------------------------------
Ag+        gl  NaNO3  25°C 0.15M C TIH  R K1=3.45   B2=6.80   1991KSa (21315)1144
IUPAC evaluation. DH(K1)=-19.2, DH(B2)=-48.1 kJ mol-1. 0 M: K1=3.8, B2=7.1
--------------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 3.00M C  IH    K1=3.28   B2=6.96   1987IOc (21316)1145
Medium: LiClO4
--------------------------------------------------------------------------------
Ag+        cal diox/w 25°C  55%  U   H    K1=3.77   B2=7.76   1986ISa (21317)1146
                                         B(AgHL)=10.93
DH(K1)=-30.3, DH(K2)=-39.1 kJ mol-1, DS(K1)=-29.0, DS(K2)=-55.0 J K-1 mol-1.
Medium: 3M LiClO4
--------------------------------------------------------------------------------
Ag+        cal NaClO4 25°C 3.00M U   H                   1986ISa (21318)1147
DH(K1)=-25.7, DH(K2)=-36.5 kJ mol-1. DS(K1)=-23.0, DS(K2)=-52.0 J K-1 mol-1
--------------------------------------------------------------------------------
Ag+        gl  oth/un 30°C 0.10M U      T K1=3.98   B2=6.80   1981PUa (21319)1148
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C   H    B2=6.82        1981SCa (21320)1149
By calorimetry: DH(K1)=-51.7 kJ mol-1, DS=-44.7
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 3.00M U      T K1=3.28   B2=6.96   1980OZa (21321)1150
                                         B(AgHL)=9.99
                                         K(Ag+L+H2O=Ag(OH)L+H)=-6.48
--------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.10M C        K1=4.2    B2= 6.80  1979BCb (21322)1151
                                         K(AgL+H)=8.1
                                         K(AgHL+H)=2.5
                                         K(AgL2+H)=8.8
                                         K(AgHL2+H)=8.0
Method: Ag electrode.
--------------------------------------------------------------------------------
```

```
Ag+        ISE KNO3   30°C 0.10M U      T K1=3.74   B2=6.57   1977PUa (21323)1152
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C      T K1=3.01   B2=6.22   1975IPb (21324)1153
                                          K(Ag+HL)=1.40
Glass electrode also used
--------------------------------------------------------------------------------
Ag+        gl  NaClO4 30°C 0.20M U      T K1=3.54   B2=6.97   1975JBb (21325)1154
--------------------------------------------------------------------------------
Ag+        gl  KNO3   15°C 0.50M U T      K1=3.24   B2=6.96   1970PTa (21326)1155
0 C: K1=3.44, K2=3.99; 40 C: K1=3.03, K2=3.15
--------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.50M U      T K1=3.22   B2=6.75   1968ALc (21327)1156
Using: Ag-AgCl ISE electrode: B2=6.85
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U      T K1=5.15   B2=8.53   1968TPb (21328)1157
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.60M U      T K1=3.54   B2=6.82   1967AMb (21329)1158
--------------------------------------------------------------------------------
Ag+        ISE oth/un 20°C  0.0  U      T K1=4.00   B2=7.19   1962ALb (21330)1159
Medium: 0 corr. By solubility: B2=7.26
--------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C 0.01M U T H    K1=3.43   B2=6.86   1959DGa (21331)1160
                                          K1=-7686.3/T+57.454-0.094725T
                                          K2=1506.7/T-0.763-0.002879T
DH(K1)=29.3 kJ mol-1(5 C),-14.2(15 C),-58.5(25 C),-104.5(35 C),-151.7(45 C),
-200.6(55 C); DH(B2)=-34(25 C). DS(K1)=230 J K-1 mol-1, DS(B2)=47
--------------------------------------------------------------------------------
Ag+        gl  oth/un 22°C 0.02M U        K1=3.7         1952PEa (21332)1161
Medium: AgNO3.
--------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C  ->0  U        K1=3.51   B2=6.89   1951ALa (21333)1162
--------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C  0.0  U        K1=3.51   B2=6.89   1951MOa (21334)1163
--------------------------------------------------------------------------------
Ag+        ISE oth/un 19°C 0.10M U        K1=0.59   B2=7.24   1947DUa (21335)1164
--------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.50M U        K1=3.7    B2=7.0    1945FLa (21336)1165
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C  ->0  U        K1=4.28         1941KRa (21337)1166
********************************************************************************
C2H5NS                 HL    Thioacetamide    CAS 62-55-5  (3542)
Thioacetic acid amide; CH3.CS.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C  1.0M U T HM   K1=8.56         1993MGa (21832)1167
                                          B(AgL(thiourea))=11.25
                                          B(AgLI)=11.91
                                          B(AgLI2)=16.28
                                          B(AgLCl)=9.19
```

B(AgLBr)=9.93 etc. 0-35 C. DH(K1)=2 kJ mol-1,DS=171 J K-1 mol-1
Data also for other mixed complexes

Ag+ ISE KNO3 0°C 1.00M U M K1=8.53 1985MMc (21833)1168
mixed complexes: with thiourea: B(AgLA)=11.92; with cloride: B=9.08;
with bromide B=9.82;

Ag+ EMF KNO3 5°C 1.0M C M K1=8.6 1984DBb (21834)1169
B(Ag(tu)L)=10.77
B(Ag(tu)2L)=13.16
tu is thiourea. Method: Ag/Ag+ electrode.

Ag+ EMF oth/un 25°C 0.60M U I K1=6.1 B2=13.7 1966PLa (21835)1170
B3=14.7
B4=13.4
Medium: 0.3-0.9 M HNO3. In 0.2-0.4 M H2SO4: K1=4.7, B2=13.7
****
C2H5N3OS L CAS 23228-74-2 (8602)
Thioimidodicarbonic diamide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF none 25°C 0.0 C T H K1=13.3 2002DZa (21838)1171
Method: Ag electrode. Data for 5-45 C. DH(K1)=90 kJ mol-1, DS(K1)=415
J K-1 mol-1.
****
C2H5N3S2 L CAS 541-53-7 (8603)
Dithiobiuret;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF none 25°C 0.0 C T H K1=18.1 B2=29.80 2002DZa (21855)1172
B3=39.1
Method: Ag electrode. Data for 5-45 C. DH(K1)=32.6 kJ mol-1, DS(K1)=238
J K-1 mol-1; DH(B2)=9.5, DS(B2)=187; DH(B3)=-46.9, DS(B3)=151.
****
C2H6N2S L Methyl-Thiourea CAS 598-52-7 (1077)
N-Methylthiourea; CH3.NH.CS.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF alc/w 25°C 100% M T H K1=8.81 B2=13.38 1990MMf (21998)1173
B3=16.03
Medium: MeOH, 0-40 C. DH(K1)=-56 kJ mol-1, DS=+19 J K-1 mol-1; DH(B2)=+86,
DS=+544; DH(B3)=-112, DS=-123. Method: Ag electrode
****
C2H6OS HL CAS 60-24-2 (841)
2-Mercaptoethanol; HS.CH2.CH2.OH

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

```
--------------------------------------------------------------------------------
Ag+        oth NaClO4 20°C 0.10M U        K1=13.0   B2=17.90  1971TSa (22056)1174
                                         K(Ag+AgL)=6
                                         B(10Ag+9L)=176.4
Method: radiometry
********************************************************************************
C2H6OS                   L    DMSO             CAS 67-68-5  (329)
Dimethylsulfoxide; (CH3)2.SO
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C       C        K1=-0.7        1990TMa (22086)1175
Medium 0.4 M LiNO3 in 25% mass DMSO/H2O
********************************************************************************
C2H6O2S2                                    CAS 51554-68-8  (2123)
Ethylthiosulfonic acid; C2H5.S2O2H                                        HL
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   20°C 1.00M U        B2=9.01        1974GSb (22162)1176
                                         B3=10.99
********************************************************************************
C2H6S                    L                  CAS 75-18-3  (151)
Dimethyl sulfide; CH3.S.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        nmr alc/w  34°C  50%  C        K1=3.7         1980SSa (22185)1177
Also in D2O, K1=2.01
********************************************************************************
C2H7N                    L    Dimethylamine    CAS 124-40-3  (802)
Dimethylamine; CH3.NH.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 1.00M U        K1=2.484  B2=5.263  1993GYa (22218)1178
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  90%  U  I     B2=5.84        1963PLa (22219)1179
Medium: 90% MeOH. B2=5.22(0%), 5.32(30%), 5.54(50%), 5.55(60%), 5.85(80%)
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  ->0  U        B2=5.37        1955FYb (22220)1180
--------------------------------------------------------------------------------
Ag+        sol oth/un 15°C 0.10M U        B2=5.30        1935BWa (22221)1181
At 17 C, by EMF, B2=5.45
--------------------------------------------------------------------------------
Ag+        ISE oth/un 16°C 0.02M U        B2=5.91        1928JOa (22222)1182
--------------------------------------------------------------------------------
Ag+        ISE oth/un 20°C 0.01M U        B2=5.60        1924PAa (22223)1183
********************************************************************************
C2H7N                    L    Ethylamine       CAS 75-04-7  (156)
```

Ethylamine; CH3.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	1.00M	U		K1=3.492 B2=7.493 B(AgH-1L2)=-3.60	1993GYa (22254)	1184
Ag+	gl	KCl	25°C	0.10M	U		K1=3.44 B2=7.34	1980HAa (22255)	1185
Ag+	gl	none	25°C	0.00	U		K1=3.58 B2=7.62	1971HTa (22256)	1186
Ag+	gl	KNO3	20°C	0.50M	U		K1=3.46 B2=7.57	1968ALc (22257)	1187
Using Ag-AgCl electrode: B2=7.51									
Ag+	sol	oth/un	25°C	?	U	I	B2=7.39	1964SDb (22258)	1188
Medium: Cl-. In Br-, B2=7.48									
Ag+	ISE	oth/un	25°C	->0	U		B2=7.32	1955FYb (22259)	1189
Ag+	gl	KNO3	25°C	0.50M	U	T	K1=3.37 B2=7.30	1948BVa (22260)	1190
K1=3.21(35 C), B2=3.77(35 C)									
Ag+	gl	KNO3	30°C	0.50M	U		K1=3.30 B2=7.14	1945CMa (22261)	1191
Ag+	sol	oth/un	15°C	<O.1	U		B2=7.72	1935BWa (22262)	1192
By EMF B2=7.67									
Ag+	ISE	oth/un	21°C	0.01M	U		B2=7.50	1928JOa (22263)	1193
Ag+	sol	oth/un	25°C	0.10M	U		B2=7.33	1903BEa (22264)	1194
Ag+	sol	oth/un	25°C	0.30M	U		B2=7.24	1903EUa (22265)	1195

****

C2H7NO L Ethanolamine CAS 141-43-5 (1057)

2-Aminoethanol; H2N.CH2.CH2.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	non-aq	?	100%	U		K1=6.0 B2=8.2	1974UPb (22366)	1196
Medium: DMF, 0.2 M LiNO3. In DMSO: K1=4.7, B2=7.0									
Ag+	ISE	mixed	25°C	20%	U	I	K1=4.48 B2=6.53 B3=6.63	1973MPf (22367)	1197
Medium: 20% Acetone/H2O, 0.4 LiNO3. K1=5.04, B2=6.63, B3=7.20(40%), K1=5.13, B2=6.65, B3=7.29(60%), B2=6.85,B3=7.36(80%), B2=7.38,B3=7.58(90%) also X=95%									
Ag+	ISE	oth/un	25°C	0.20M	U	I	K1=4.30 B2=6.78	1973UPa (22368)	1198
Medium:LiNO3. In MeOH, K1=5.47, B2=7.62, B3=7.48. In EtOH, K1=5.47, B2=7.65, B3=7.56									

```
Ag+        ISE diox/w 25°C  20%  U  I     K1=4.40   B2=6.65   1972MPc (22369)1199
                                          B3=7.11
Medium:20% Dioxan, 0.4 LiNO3. Also K1=4.41, B2=6.93, B3=7.35(40%), B2=7.30,
B3=7.60(60%), B2=7.45, B3=7.72(70%)
-------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=2.92   B2=6.72   1972PEa (22370)1200
-------------------------------------------------------------------------------
Ag+        sol KNO3   25°C  2.0M U        B2=6.48        1970UPa (22371)1201
-------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.50M U        K1=3.22   B2=6.79   1968ALc (22372)1202
Using an Ag-AgC ISE: B2=6.83
-------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  20%  U  I     K1=4.60   B2=6.50   1965MPb (22373)1203
                                          B3=6.84
Medium: 20% EtOH, 0.4 LiNO3. 0%:K1=4.18,B2=6.45,B3=6.30; 40%:5.15,6.85,7.11;
60%:5.5,7.0,7.5; 80%:5.8,7.23,7.8; 100%:6.0,7.48,8.36
-------------------------------------------------------------------------------
Ag+        gl  NaClO4  0°C  1.0M U T      K1=3.38   B2=7.65   1964PCa (22374)1204
30 C: K1=3.07, K2=3.56; 50 C: K1=2.86, K2=3.29
-------------------------------------------------------------------------------
Ag+        ix  KNO3   25°C 0.10M U        B2=6.56        1962CWa (22375)1205
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.01M U        B2=6.78        1961ALb (22376)1206
-------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C .015M U        K1=3.29   B2=6.82   1959DGa (22377)1207
-------------------------------------------------------------------------------
Ag+        gl  oth/un 10°C  ->0  U T H    K1=3.36   B2=7.28   1959LBb (22378)1208
20 C: K1=3.29, K2=3.63; 30 C: K1=3.07, K2=3.57; 40 C: K1=2.98, K2=3.41.
DH(K1)=-23 kJ mol-1, DS=-17 J K-1 mol-1; DH(K2)=-27, DS=-21
-------------------------------------------------------------------------------
Ag+        EMF oth/un 20°C 0.01M U        B2=6.91        1958ASb (22379)1209
-------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=3.11   B2=6.68   1956BJb (22380)1210
-------------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  50%  U        K1=3.41   B2=7.40   1955ANc (22381)1211
Medium: 50 mol % EtOH
-------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=3.13   B2=6.68   1948BVa (22382)1212
-------------------------------------------------------------------------------
Ag+        sol oth/un 16°C 0.20M U        B2=7.09        1933TAa (22383)1213
*******************************************************************************
C2H7NO3S               HL    Taurine          CAS 107-35-7  (2214)
2-Aminoethane sulfonic acid; H2N.CH2.CH2.SO3H
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C  1.0M C        K1=3.53   B2= 6.48  1998BFb (22434)1214
Method: Ag and glass electrodes
-------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=2.97   B2=6.15   1972PTa (22435)1215
```

```
-------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C .014M U        K1=3.19   B2=6.38   1959DGa (22436)1216
*******************************************************************************
C2H7NO4S               HL                      CAS 926-39-6  (2972)
2-Aminoethyl hydrogen sulfate; H2N.CH2.CH2.O.SO3H
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C .013M U        K1=3.42   B2=6.90   1959DGa (22442)1217
*******************************************************************************
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
-------------------------------------------------------------------------------
Ag+        sp  NaClO4 20°C 1.00M U    M                  1972GSg (22473)1218
                                        K(Ag+NiL2)=6.70
                                        K(Ag+Ni3L4=AgNi2L4+Ni)=7.48
*******************************************************************************
C2H7OPS2               HL                      CAS 993-44-2  (4228)
Dimethyldithiophosphonic acid; (CH3S)2PO.H
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  90%  U        B2=16.00       1971TCa (22526)1219
Medium: 90% EtOH, 0.3 M NaClO4
*******************************************************************************
C2H8NO4P              H2L                      CAS 1071-23-4  (1864)
2-Aminoethyl-dihydrogenphosphoric acid; H2N.CH2.CH2.OPO3H2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C .034M U  I                    1959DGa (22657)1220
                                        K1=3.89(?)
                                        K2=3.22(?)
At I=0.026 M K1(?)=3.87, K2(?)=3.25
*******************************************************************************
C2H8N2                  L    Ethylenediamine  CAS 107-15-7  (23)
1,2-Diaminoethane; H2N.CH2.CH2.NH2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        ISE mixed  25°C 0.10M C  I     K1=6.65   B2=10.28  2002PRa (23034)1221
Ag-electrode; Medium:0.1 M NaClO4 in 0.4 mol parts DMFA in H2O
for 0.1 M NaClO4 in 100% DMFA K1=7.86; K2=4.38
-------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C  1.0M C        B2=7.67        1994GYb (23035)1222
                                        B(AgHL)=12.63
                                        B(AgH2L2)=25.93
                                        B(AgHL2)=16.59
```

```
                                        B(Ag2L2)=13.41
B(Ag2HL2)=20.20
-------------------------------------------------------------------------------
Ag+        cal non-aq 25°C 100%  U   H                   1989CDa (23036)1223
Medium: DMSO. DH(K1)=-63 kJ mol-1; DS=-109. DH(B2)=-85; DS=-103.
-------------------------------------------------------------------------------
Ag+        cal oth/un 25°C  dil  C   H    K1=4.68   B2= 7.69  1989OFa (23037)1224
                                        B(Ag2L2)=13.19
Medium: NH4Cl/NH3 buffer, pH 10. DH(B2)=-52.59 kJ mol-1,
DH(B(Ag2L2))=-113.3.
-------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C        K1=5.34   B2=9.50   1988CBa (23038)1225
Medium: DMSO, 1.0 M Et4N.ClO4.
-------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  90%  U        B2=8.36        1985BIa (23039)1226
Medium: 90% v/v DMSO in H2O
-------------------------------------------------------------------------------
Ag+        gl  NaNO3  25°C 2.00M U        K1=5.05   B2=11.12  1982SPc (23040)1227
                                        B(AgHL)=12.52
                                        K(Ag+HL)=2.26
                                        B(AgHL2)=18.69
                                        K(Ag+HL+L)=8.44
-------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C   H    K1=5.32   B2=7.62   1981SCa (23041)1228
                                        B3=14.52
By calorimetry: DH(K1)=-55.5 kJ mol-1, DS=-40.1
-------------------------------------------------------------------------------
Ag+        sol NaClO4 25°C 1.00M U T                    1979BBb (23042)1229
                                        K(2AgL=Ag2L2)=1.71
Also polymerized species (Ag)x(L)x with x greater than 2
-------------------------------------------------------------------------------
Ag+        vlt non-aq 25°C 100%  U        K1=3.30        1979SZa (23043)1230
Medium: DMSO, 0.1 M NaClO4
-------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 1.00M C   H    K1=5.06        1978MSb (23044)1231
                                        K(Ag+HL)=2.42
                                        K(Ag+AgL)=1.20
                                        B(2Ag+2L)=13.17
DH(K1)=-48.5; DH(K2)=-55.2;DH(2,2)=-107.8 kJ mol-1
-------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U   H    B2=7.64        1976VPb (23045)1232
                                        B(AgHL)=2.34
                                        B(AgH2L2)=4.90
                                        B(AgHL2)=6.47
                                        B(Ag2L2)=13.15
DH(AgHL)=-25.4 DS=-41, DH(Ag2H2L)=-5.08 DS=-77, DH(Ag2HL)=-56.9 DS=-66,
DH(Ag2L)=-52.5 DS=-30, DH(Ag2L2)=-97.1 DS=-74
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 3.00M U    M   K1=6.13        1973OIa (23046)1233
                                        K(2Ag+L=Ag2L)=7.67
```

```
                                        K(2Ag+2L=Ag2L2)=14.53
                                        B(AgHL)=13.56
                                        B(Ag(HL)2)=27.37
Medium: LiClO4. K(AgL+H2O=Ag(OH)L+H)=-4.59
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U       K1=6.27   B2=9.54   1969PSd (23047)1234
                                        K(2Ag+L)=5.8
Medium: DMSO, 0.1 KClO4
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.01M U       B2=7.73       1961ALb (23048)1235
                                        B3=9.75
--------------------------------------------------------------------------------
Ag+        gl  NaNO3  20°C 0.10M U       K1=4.70   B2=7.70   1952SMa (23049)1236
                                        K(Ag+HL)=2.35
                                        K(Ag+AgL)=1.76
                                        B(Ag2L2)=13.23
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C  1.0M U       K1=6      B2=7.4    1950BJa (23050)1237
--------------------------------------------------------------------------------
Ag+        ISE oth/un 18°C 0.02M U       B2=7.70       1936BWa (23051)1238
********************************************************************************
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
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U       K1=4.17       1980ZRc (23322)1239
                                        K(Ag+HL)=3.39
                                        K(Ag+H2L)=3.13
********************************************************************************
C3H2NCl                 L                    CAS 920-37-6  (3548)
2-Chloroacrylonitrile; H2C:C(Cl)CN   (1-Cyano-2-chloropropene)
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        dis oth/un 61°C  4.0M U       K1=-0.55      1968SCb (23480)1240
Medium: LiNO3
********************************************************************************
C3H3Cl                  L    3-Chloropropyne  CAS 624-65-7  (4230)
3-Chloropropyne, Propargyl chloride; HCC.CH2Cl
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF NaNO3  25°C 1.00M U       K1=0.10       1973STd (23491)1241
********************************************************************************
C3H3N                   L    Acrylonitrile    CAS 107-13-1  (3545)
Cyanoethene; H2C:CH.CN
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
```

Ag+ dis oth/un 61°C 4.0M U K1=-0.15 1968SCb (23492)1242
Medium: LiNO3

****

C3H3NO L Isoxazole CAS 288-14-2 (384)
Isoxazole; cyclo(-O.N:CH.CH:CH-) C3H3NO

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=1.21	B2=2.59	1979BBa	(23495)1243
Ag+	gl	KNO3	25°C	0.50M	U		K1=0.80	B2=1.21	1978KLa	(23496)1244

****

C3H3NOS2 HL Rhodanine CAS 141-84-4 (3557)
2-Thioxo-4-thiazolidinone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	dis	NaClO4	20°C	0.10M	U		K1=5.47	B2=9.68	1965NKb	(23500)1245

****

C3H3NO2S HL CAS 2295-31-0 (388)
2,4-Thiazolidinedione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=3.5	B2=7.05	1979BBa	(23513)1246

****

C3H3NS L Isothiazole CAS 288-16-4 (383)
Isothiazole; cyclo(-S.N:CH.CH:CH-) C3H3NS

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=1.44	B2=2.69	1979BBa	(23517)1247
Ag+	gl	KNO3	25°C	0.50M	U		K1=1.11	B2=2.71	1978KLa	(23518)1248

****

C3H3NS L Thiazole CAS 288-47-1 (382)
Thiazole; cyclo(-S.CH:N.CH:CH-) C3H3NS

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	M		K1=1.56	B2=3.73	1986BGa	(23525)1249
Ag+	gl	KNO3	25°C	0.50M	U		K1=1.95	B2=3.92	1979BBa	(23526)1250

****

C3H4N2 L Pyrazole CAS 288-13-1 (367)
1,2-Diazole, pyrazole; cyclo(-NH.N:CH.CH:CH-)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	M		K1=1.88	B2=4.17	1986BGa	(23558)1251

```
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=2.110  B2=4.235  1979BBa (23559)1252
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=2.11   B2=4.24   1977BBb (23560)1253
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  20%  C T H    K1=2.05   B2=4.44   1977PGb (23561)1254
--------------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C 0.10M C        K1=2.05   B2= 4.37  1977PMa (23562)1255
Method: Ag electrode.
********************************************************************************
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
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C      R K1=2.93   B2=6.74   1997SJa (23782)1256
IUPAC evaluation. I=0.5 M: DH(K1)=-30.5 kJ mol-1, DH(K2)=-32.1
I=0: K1=2.92, B2=6.71; I=2.0: K1=3.34, B2=7.55
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M M        K1=3.31   B2=6.78   1986BGa (23783)1257
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=3.31   B2=6.78   1985BGa (23784)1258
Simultaneous measurement of Ag+ in a concentration cell and of pH
With glass electrode alone, K1=3.33, B2=6.96
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  50%  U        B2=7.22        1980BTb (23785)1259
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=2.96   B2=6.95   1979BBa (23786)1260
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 3.00M C        K1=3.336  B2=7.554  1979GSb (23787)1261
                                         K(Ag+L=AgL(OH)+H)=-4.78
--------------------------------------------------------------------------------
Ag+        ISE R4N.X  25°C 0.50M U        K1=4.0    B2=6.88   1971BLb (23788)1262
Medium: NH4NO3
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=2.70   B2=6.88   1970BLa (23789)1263
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 1.00M U        K1=3.08   B2=6.95   1969NNa (23790)1264
--------------------------------------------------------------------------------
Ag+        gl  KNO3   50°C 0.10M U T H    K1=2.81   B2=6.05   1966DGb (23791)1265
0 C:K1=3.52,K2=4.36; 10 C:3.38, 4.15; 20 C:3.24, 3.89; 30 C:3.10, 3.64;
50 C:2.81,3.24. At 20 C:DH(K1)=-23 kJ mol-1,DS=-17; DH(K2)=-43,DS=-73
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C  1.0M U        K1=3.05   B2=6.88   1964BWa (23792)1266
--------------------------------------------------------------------------------
Ag+        gl  KCl    25°C .058M U T      K1=3.78   B2=7.04   1961SMa (23793)1267
0 C: K1=4.26; 45 C: K1=3.46, B2=7.94
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C  1.0M U        K1=3.11   B2=6.84   1960GGa (23794)1268
********************************************************************************
```

C3H4N2OS L Thiohydantoin CAS 503-87-7 (387)
Imidazolidine-2-thioxo-4-one, 2-Thiohydantoin;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=4.26	B2=6.87	1979BBa	(23935)1269

****

C3H4N2O2 HL Hydantoin CAS 461-72-3 (389)
2,4-Imidazolidinedione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=4.42	B2=9.05	1979BBa	(23943)1270
Ag+	gl	KNO3	25°C	0.50M	U	IH	K1=4.42	B2= 9.05	1979BEc	(23944)1271

By calorimetry: DH(K1)=-24.4 kJ mol-1, DS(K1)=2.7 J K-1 mol-1;
DH(B2)=-12.65, DS(B2)=-4.2. In 0.10 M KNO3, K1=4.29, B2=9.20

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.10M	U		K1=4.29	B2=9.20	1965COb	(23945)1272

****

C3H4N2S L CAS 95-50-4 (821)
2-Aminothiazole; C3H2NS.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	M		K1=2.69	B2=5.35	1986BGa	(23958)1273

****

C3H4O L 2-Propyn-1-ol CAS 107-19-7 (4231)
2-Propyn-1-ol, Propargyl alcohol; HCC.CH2.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	NaNO3	25°C	1.00M	U		K1=0.64		1973STd	(23976)1274

****

C3H5Cl L Allyl chloride CAS 107-05-1 (3546)
3-Chloropropene; H2C:CH.CH2.Cl

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	NaNO3	25°C	1.00M	U		K1=0.51		1973STd	(24636)1275

****

C3H6 L Propylene CAS 115-07-1 (702)
Propene; CH3.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	dis	none	40°C	0.0	U	T H	K1=0.95		1984DWa	(24752)1276
Ag+	ISE	none	25°C	0.00	U		K1=1.77		1971PTb	(24753)1277

Medium: 0.1 KNO3. 20 C: K1=1.00; 40 C: K1=0.53; 60 C: K1=0.26; 80 C: K1=-0.1

```
--------------------------------------------------------------------------------
Ag+        dis oth/un 25°C  1.0M U        K1=1.94        1952TLa (24754)1278
                                          K(AgL+Ag)=-0.96
********************************************************************************
C3H6N2OS                L                     CAS 591-08-2  (1423)
N-Acetylthiourea;CH3.CO.NH.CS.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF none   25°C  0.0  C T H    K1=13.2        2002DZa (24763)1279
Method: Ag electrode. Data for 5-45 C. DH(K1)=127 kJ mol-1, DS(K1)=540
J K-1 mol-1.
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  82%  U        K1=7.25   B2=9.60   1979TBa (24764)1280
Medium: 82% formamide
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C 0.20M U  I                    1978BMb (24765)1281
                                          B3=11.77
Medium: 40 mol/l H2O in H2O/Dimethylformamide mixed solvent
********************************************************************************
C3H6N2O2S               L                       (6138)
4,5-Dihydroxyimidazolidine-2-thione;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  82%  U        K1=4.87   B2=8.45   1979TBd (24816)1282
                                          B3=12.10
Medium: 82% v/v DMFA/H2O; 0.2 M KNO3
********************************************************************************
C3H6N2S                 L                     CAS 96-45-7  (386)
2-Imidazolidinethione; C3H6N2(:S)
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=5.97   B2=10.2   1979BBa (24831)1283
                                          B3=12.3
--------------------------------------------------------------------------------
Ag+        ISE diox/w 28°C  80%  U                    1964KKa (24832)1284
                                          K(Ag+3HL)=11.5
Medium: 80% dioxan,  2 M NH4NO3
********************************************************************************
C3H6O                  HL    Allyl alcohol    CAS 107-18-6  (62)
Prop-2-en-1-ol; CH2:CH.CH2.OH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  1.0M U TIH    K1=1.253  B2=1.05   1977HSa (24840)1285
By temp coeff., DH1=-18.6 kJ mol-1, DS1=-38 J K-1 mol-1, also in MeOH etc.
--------------------------------------------------------------------------------
Ag+        EMF NaNO3  25°C 1.00M U        K1=0.97        1973STd (24841)1286
```

```
-------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  2.0M U        K1=1.360  B2=1.12   1967HVa (24842)1287
-------------------------------------------------------------------------------
Ag+        sol KNO3   25°C 0.10M U        K1=1.15        1949KAb (24843)1288
-------------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=1.08   B2=1.56   1938WLa (24844)1289
*******************************************************************************
C3H6O                   L    Acetone          CAS 67-64-1  (1912)
Propan-2-one, acetone; CH3.CO.CH3
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=-0.85       1938WLa (24854)1290
*******************************************************************************
C3H6O2S                HL                    CAS 2444-37-3  (1074)
(Methylthio)ethanoic acid; CH3.S.CH2.COOH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.10M U        K1=3.90   B2=7.36   1968PSb (25089)1291
                                        K(Ag+HL)=3.16
Acetate buffer. For K(Ag+HL) I=0.2 M
*******************************************************************************
C3H6O2S               H2L                    CAS 107-96-0  (437)
3-Mercaptopropanoic acid; HS.CH2.CH2.COOH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        ISE KNO3   20°C 0.10M C        K1=12.0   B2=14.00  1999AKa (25198)1292
Method: Ag2S electrode. K(H+L)=10.5.
*******************************************************************************
C3H7N                   L    Allylamine       CAS 107-11-9  (2973)
Allylamine; H2C:CH.CH2.NH2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  2.0M U        K1=0.114       1967HVa (25635)1293
-------------------------------------------------------------------------------
Ag+        sol oth/un 16°C 0.01M U        B2=7.17        1933TAa (25636)1294
*******************************************************************************
C3H7N                   L                      (160)
Amino-cyclopropane; C3H5.NH2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        gl  KCl    25°C 0.10M U        K1=3.10   B2=6.43   1980HAa (25640)1295
*******************************************************************************
C3H7NO                  L    DMF              CAS 68-12-2  (598)
N,N-Dimethylformamide; HCO.N(CH3)2
-------------------------------------------------------------------------------
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	non-aq	?	100%	U		K1=1.7 B3=3.0 B4=2.42	B2=2.7	1971LUb (25650)	1296

Medium: 0.1-1.0, HCON(CH3)2, in nitroethane. Data also in sulfolane, acetone, 2-butanol and methanol

****

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
Ag+	gl	oth/un	30°C	0.10M	U		K1=3.85	B2=6.60	1981PUa (26053)	1297
Ag+	EMF	KNO3	25°C	0.10M	C T H		K1=4.3 K(AgL+H)=8.1 K(AgHL+H)=2.5		1981SBe (26054)	1298

Method: Ag/Ag+ electrode. Data for 25-45C. DH(K1)=41.3 kJ mol-1.

Ag+	gl	NaClO4	30°C	0.20M	U	T	K1=3.85	B2=7.51	1975JBb (26055)	1299
Ag+	ISE	oth/un	25°C	0.60M	U	T	K1=3.60	B2=7.06	1967AMb (26056)	1300
Ag+	gl	oth/un	25°C	->0	U		K1=3.64	B2=7.18	1951MOa (26057)	1301
Ag+	sol	oth/un	25°C	->0	U		K1=4.86		1941KRa (26058)	1302

****

C3H7NO2 HL B-Alanine CAS 107-95-9 (575)

3-Aminopropanoic acid; H2N.CH2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	NaClO4	25°C	3.00M	C	IH	K1=3.58	B2=7.46	1987IOc (26419)	1303

Medium: LiClO4

Ag+	gl	NaClO4	25°C	3.00M	U	T	K1=3.58 B(AgHL)=10.88 K(Ag+L+H2O=Ag(OH)L+H)=-6.12	B2=7.46	1980OZa (26420)	1304
Ag+	gl	NaClO4	30°C	0.20M	U		K1=4.17		1975JBb (26421)	1305
Ag+	gl	KNO3	15°C	0.50M	U	T	K1=3.47	B2=7.41	1970PTa (26422)	1306

K1(0 C)=3.72, B2(0 C)=7.90; K1(40 C)=3.19, B2(40 C)=6.69

Ag+	gl	KNO3	20°C	0.50M	U	T	K1=3.44	B2=7.25	1968ALc (26423)	1307

Using Ag/AgCl ISE: B2=7.32

Ag+	gl	KNO3	25°C	0.50M	U	T	K1=3.33	B2=7.12	1968TPa (26424)	1308

```
Ag+        ISE oth/un 25°C 0.60M U      T K1=3.76   B2=7.21   1967AMb (26425)1309
**************************************************************************
C3H7NO2                HL    Sarcosine        CAS 107-97-1  (87)
N-Methyl-2-aminoethanoic acid; CH3.NH.CH2.COOH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  oth/un 25°C .016M U        K1=3.04   B2=5.88   1959DGa (26593)1310
**************************************************************************
C3H7NO2S              H2L    Cysteine         CAS 52-90-4  (96)
2-Amino-3-mercaptopropanoic acid; H2N.CH(CH2.SH)COOH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE KNO3   20°C 0.10M C        K1=11.9   B2=15.20  1999AKa (26731)1311
Method: Ag2S electrode. K(H+L)=7.8.
--------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 0.50M U                      1986KPa (26732)1312
                                        Kso(AgL)=-8.40
--------------------------------------------------------------------------
Ag+        ISE NaNO3  25°C  1.0M U                      1976ZNb (26733)1313
                                        K(Ag+HL)=14.01
Ag-electrode
**************************************************************************
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
--------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.10M C T H    K1=4.1         1981SBe (27065)1314
                                        K(AgL+H)=7.4
                                        K(AgHL+H)=2.5
Method: Ag/Ag+ electrode. Data for 25-45C. DH(K1)=44.3 kJ mol-1.
--------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.60M U        K1=3.40   B2=6.67   1967AMb (27066)1315
**************************************************************************
C3H7NS                  L                     CAS 758-16-7  (476)
N,N-Dimethylthioformamide; HCS.N(CH3)2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U        K1=6.8    B2=10.2   1976CWc (27255)1316
                                        B3=11.9
                                        B4=13.0
--------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        K1=3.7    B2=6.7    1976CWc (27256)1317
                                        B3=8.4
                                        B4=9.2
Medium: MeCN
--------------------------------------------------------------------------
```

Ag+ ISE non-aq 25°C 100% U B2=13.9 1976CWc (27257)1318
B3=16.0
B4=16.9
Medium: propylene carbonate
****
C3H7NS L Thiazolidine CAS 504-78-9 (385)
Tetrahydrothiazole; cyclo(-S-CH2-NH-CH2-CH2-) C3H7NS

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.50M U K1=8.84 B2=12.08 1979BBa (27260)1319
****
C3H8N2S L DiMe-Thiourea CAS 61805-96-7 (1078)
1,3-Dimethylthiourea; CH3.NH.CS.NH.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF alc/w 25°C 100% M T H K1=8.77 B2=12.52 1990MMf (27623)1320
B3=15.24
Medium: MeOH, 0-40 C. DH(K1)=-37 kJ mol-1, DS=+44 J K-1 mol-1; DH(B2)=-60,
DS=+36; DH(B3)=-110, DS=-77. Method: Ag electrode
****
C3H8O3S3 H3L Unithiol CAS 74-61-3 (1271)
2,3-Dimercaptopropanesulfonic acid; HS.CH2.CH(SH).CH2.SO3H

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp oth/un ? ? U 1971EPd (27774)1321
B(Ag2L)=35.8

Ag+ EMF KNO3 ? 1.00M U 1969SOa (27775)1322
B(Ag2L2)=25.80
Medium:HNO3
****
C3H8S HL Propylmercaptan CAS 75-33-2 (2515)
2-Propanethiol, Isopropylmercaptan; CH3.CH(SH).CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 20°C 25% U T H K1=7.05 1978SKf (27805)1323
DH=-39.54 kJ mol-1. Data also available when T=10 and 30. Alternative
methods: Conductivity and amperometric techniques.

Ag+ con alc/w 20°C 25% C TIH 1978SKj (27806)1324
Kso(AgL)=-7.05
Medium: 25% v/v EtOH/H2O. Additional methods: potentiometry (25% EtOH/H2O)
polarography (25% EtOH/H2O, 0.2 M NaClO4). Data for 10 and 30 C. DH values
****
C3H9N L n-Propylamine CAS 107-10-8 (2356)
1-Aminopropane; H2N.CH2.CH2.CH3

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 1.00M U        K1=3.463  B2=7.435  1993GYa (27820)1325
                                         B(AgH-1L2)=-4.30
--------------------------------------------------------------------------------
Ag+        gl  none   25°C 0.00  U        K1=3.57   B2=7.70   1971HTa (27821)1326
--------------------------------------------------------------------------------
Ag+        ISE R4N.X  25°C 2.00M U        K1=3.40   B2=7.10   1969PMc (27822)1327
Medium: NH4NO3
--------------------------------------------------------------------------------
Ag+        EMF KNO3   20°C 0.50M U        K1=3.47   B2=7.54   1968ALc (27823)1328
Method: quinhydrone electrode.  Using Ag/AgCl ISE: B2=7.48
--------------------------------------------------------------------------------
Ag+        sol oth/un 16°C 0.01M U        B2=7.68        1933TAa (27824)1329
********************************************************************************
C3H9N                   L    iso-Propylamine  CAS 75-31-0  (157)
2-Propylamine; CH3.CH(CH3).NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KCl    25°C 0.10M U        K1=3.64   B2=7.77   1980HAa (27840)1330
--------------------------------------------------------------------------------
Ag+        oth non-aq   ?  100%  U        B2=10.5        1965MMa (27841)1331
Method: coulometric titration.  Medium: acetone, 0.1 M NaClO4
********************************************************************************
C3H9N                   L                        (6677)
Methylethylamine; CH3.CH2.NH.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 1.00M U        K1=2.789  B2=5.828  1993GYa (27849)1332
********************************************************************************
C3H9N                   L    Trimethylamine   CAS 75-50-3  (803)
Trimethylamine; (CH3)3.N
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 1.00M U        K1=1.701       1993GYa (27857)1333
--------------------------------------------------------------------------------
Ag+        sol oth/un 15°C 0.10M U        B2=3.11        1935BWa (27858)1334
********************************************************************************
C3H9NO                  L                       CAS 2799-16-8  (905)
1-Aminopropan-2-ol; H2N.CH2.CH(OH).CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=3.03   B2=6.77   1972PEa (27873)1335
--------------------------------------------------------------------------------
Ag+        gl  oth/un 20°C  0.0  U        K1=3.23   B2=6.78   1964AKb (27874)1336
```

Medium: 0 corr. By solubility: B2=6.78
****
C3H9NO L CAS 109-85-3 (1575)
2-Methoxyethylamine; CH3O.CH2.CH2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaClO4 30°C 1.0M U TI K1=3.15 B2=6.81 1964PCa (27900)1337
50 C: K1=2.95, K2=8.27. At I=0, 30 C: B2=6.76

Ag+ gl none 10°C 0.0 U T H K1=3.44 B2=7.16 1959LBb (27901)1338
DH(K1)=-23 kJ mol-1, DS=-8; DH(K2)=-22, DS=-4. 20 C: K1=3.16, K2=3.81;
30 C: K1=3.18, K2=3.37; 40 C: K1=2.99, K2=3.43

Ag+ gl KNO3 25°C 0.50M U K1=2.95 B2=6.34 1948BVa (27902)1339
****
C3H9NO L CAS 156-87-6 (906)
3-Aminopropan-1-ol; HO.CH2.CH2.CH2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 20°C 0.50M U K1=3.25 B2=7.04 1968ALc (27915)1340
By Ag/AgCl ISE: B2=7.04
****
C3H9NO2 L CAS 616-30-8 (4237)
3-Aminopropan-1,2-diol; H2N.CH2.CH(OH).CH2(OH)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=3.00 B2=6.35 1972PEa (27922)1341
****
C3H9NO3S HL CAS 3687-18-1 (4242)
3-Aminopropanesulfonic acid; H2N.CH2.CH2.CH2.SO3H

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.50M U K1=3.17 B2=6.75 1972PTa (27924)1342
****
C3H9NS L CAS 18542-42-2 (1215)
1-Amino-3-thiabutane; H2N.CH2.CH2.S.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.50M U K1=4.88 B2=9.29 1977TGa (27940)1343
B(2Ag+L)=6.86
B(2Ag+2L)=13.01
B(Ag+HL)=2.64
B(Ag+HL+L)=7.56
B(Ag+2HL)=4.06

```
Ag+        cal KNO3   25°C 0.50M C   H                    1977TGc (27941)1344
DH(Ag+HL)=-27.3 kJ mol-1, DH(Ag+2HL)=-55.6, DH(Ag+HL+L)=-73.6,
DH(B2)=-82.0, DH(2Ag+2L)=-123, DH(2Ag+L)=-17.58.
-------------------------------------------------------------------------------
Ag+        gl  KNO3   30°C  1.0M U        K1=4.17   B2=6.88   1951GOa (27942)1345
*******************************************************************************
C3H9NS                  HL                      CAS 462-47-5  (1566)
3-Aminopropane-1-thiol; H2N.CH2.CH2.CH2.SH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  10%  C                        1990GVa (27950)1346
                                        B(6,3)=61.60
                                        B(6,4)=77.83
                                        B(8,6)=114.58
                                        B(7,6)=109.84
B(10,9)=163.76, B(12,12)=211.2, B(5,6)=96.58, B(5,7)=102.6, B(4,6)=83.59,
B(2,4)=44.84.In 10% methanol/H2O, 0.10 M NaNO3.  B(p,q): pAg+qHL=(Ag)p(HL)q
*******************************************************************************
C3H10N2                 L                       CAS 78-90-0  (2905)
1,2-Diaminopropane; CH3.CH(NH2)CH2.NH2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C  1.0M C        B2=7.92        1994GYb (28155)1347
                                        B(AgHL)=12.55
                                        B(AgH2L2)=25.10
                                        B(AgHL2)=16.87
                                        B(Ag2L2)=13.29
B(Ag2HL2)=20.07
-------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 3.00M U        K1=5.52        1973OIa (28156)1348
                                        B(Ag2L)=7.60
                                        B(AgHL)=12.72
                                        B(AgH2L2)=25.84
                                        B(Ag2L2)=13.47
Medium: LiClO4. K(AgL+H2O=AgOHL+H)=-4.17
-------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 1.00M U        K1=6.20   B2=7.60   1968LAb (28157)1349
                                        K(Ag+HL)=3.20
                                        K(AgHL+HL)=2.76
*******************************************************************************
C3H10N2                 L    Propanediamine   CAS 109-76-2  (123)
1,3-Diaminopropane; H2N.CH2.CH2.CH2.NH2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C   H    K1=5.9         2002CNa (28271)1350
                                        B(Ag2L)=8.06
                                        B(Ag2L2)=14.4
```

Method: Ag electrode. Medium: DMSO, 0.10 M Et4NClO4.DH(K1)=-80.8 kJ mol-1, DS=-157 J K-1 mol-1; DH(Ag2L)=-71.6, DS=-86; DH(Ag2L2)=-146.8, DS=-217.

Ag+ ISE KNO3 25°C 1.00M C B2=7.81 1994GYa (28272)1351
B(AgHL)=13.75
B(AgH2L2)=27.72
B(Ag2L2)=14.86

Ag+ cal non-aq 25°C 100% U H 1989CDa (28273)1352
Medium: DMSO. DH(K1)=-80.8 kJ mol-1; DS=-157. DH(Ag2L)=-71.6; DS=-86. DH(Ag2L2)=-146.8; DS=-217

Ag+ ISE non-aq 25°C 100% C K1=5.9 1988CBa (28274)1353
B(Ag2L)=8.06
B(Ag2L2)=14.4
Medium: DMSO, 1.0 M Et4N.ClO4.

Ag+ vlt non-aq 25°C 100% U K1=2.00 1979SZa (28275)1354
Medium: DMSO, 0.1 M NaClO4

Ag+ gl NaClO4 25°C 3.00M C K1=6.59 B2=9.8 1977OCa (28276)1355
B(AgHL)=14.32
B(AgH2L2)=28.90
B(AgH-1L)=-3.6
B(Ag2L2)=15.90
Medium: LiClO4

Ag+ gl oth/un 10°C ->0 U T H K1=6.35 1958BFa (28277)1356
DH(K1)=-61.1 kJ mol-1, DS=-96. K1=5.92(20 C), 5.56(30 C), 5.27(40 C)

Ag+ gl NaNO3 20°C 0.10M U K1=5.85 1952SMa (28278)1357
K(Ag+HL)=2.55
B(Ag2L)=0.6

****

C3H10N2 L CAS 109-81-9 (1308)
N-Methyl-1,2-diaminoethane; CH3.NH.CH2.CH2.NH2

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

---

Ag+ gl KNO3 25°C 1.0M C B2=7.26 1994GYb (28355)1358
B(AgHL)=12.60
B(AgH2L2)=25.28
B(AgHL2)=16.74
B(Ag2L2)11.99
B(Ag2HL2)=19.42

Ag+ gl KNO3 25°C 0.10M C B2= 7.30 1993GYb (28356)1359
B(AgHL)=12.69
B(AgH2L2)=25.47
B(AgHL2)=16.83

B(Ag2L2)=12.05

****

C3H10N2O L CAS 616-29-5 (1910)

1,3-Diaminopropane-2-ol; H2N.CH2.CH(OH).CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	oth/un	10°C	0.0	U	T H	K1=5.96		1958BBc	(28381)1360

DH(K1)=-55.2 kJ mol-1, DS=-79. K1=5.64(20 C), 5.31(30 C), 4.97(40 C)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	30°C	1.0M	U		K1=5.80		1955GFa	(28382)1361

****

C3H11N3 L CAS 21292-99-6 (2975)

Propane-1,2,3-triamine; H2N.CH2.CH(NH2).CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	NaNO3	20°C	0.10M	U		K1=5.65		1950PSa	(28482)1362
							K(Ag+HL)=3.4			
							K(Ag+AgL)=1.2			

****

C4H3N2Cl L Chloropyrazine CAS 14508-49-7 (2530)

2-Chloro-pyrazine, 2-Chloro-1,4-diazine; C4H3N2.Cl

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	U	H	K1=0.96	B2=1.53	1974HEa	(28676)1363

DH(K1)=-15.9 and DH(B2)=-32.13 kJ mol-1.

****

C4H3N2O2F HL 5-Fluorouracil CAS 51-21-8 (4277)

5-Fluoro-2,4(1H,3H)-pyrimidinedione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	?	0.10M	U		B2=8.18		1970GKd	(28690)1364

****

C4H4N2 L Pyridazine CAS 289-80-5 (1484)

1,2-Diazine, Pyridazine; cyclo(-N:N.CH:CH.CH:CH-)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	U		K1=1.48	B2=2.70	1986KLa	(28768)1365
Ag+	ISE	KNO3	25°C	0.10M	U		K1=1.48	B2=2.82	1973BEb	(28769)1366

****

C4H4N2 L Pyrimidine CAS 289-95-2 (4247)

1,3-Diazine, pyrimidine;

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

Ag+ ISE KNO3 25°C 0.10M U K1=1.61 B2=2.98 1973BEb (28775)1367
****
C4H4N2 L Pyrazine CAS 290-37-9 (620)
1,4-Diazine, Pyrazine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=1.39 B2=2.52 1986KLa (28786)1368

Ag+ ISE KNO3 25°C 0.10M U K1=1.38 B2=2.41 1973BEb (28787)1369

Ag+ sol mixed 30°C 1% U K1=1.50 B2=2.12 1962STa (28788)1370
Medium: 1% Pyrazine
****
C4H4N2 L Succinonitrile CAS 110-61-2 (2987)
Succinonitrile; NC.CH2.CH2.CN

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 20°C ? U K1=1.0 1924PAa (28799)1371
****
C4H4N2OS HL 2-Thiouracil CAS 141-90-2 (4278)
4-Hydroxy-2-mercaptopyrimidine; HO.C4H2N2.SH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF none 25°C 0.0 C T H K1=13.1 B2=22.30 2002DZa (28803)1372
B3=31.5
Method: Ag electrode. Data for 5-45 C. DH(K1)=-80.3 kJ mol-1, DS(K1)=-189
J K-1 mol-1; DH(B2)=-93.5, DS(B2)=-145; DH(B3)=-38.2, DS(B3)=122.
****
C4H4N2O2 HL Uracil CAS 66-22-8 (412)
2,4-Dihydroxypyrimidone, 2,4-Pyrimidinedione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 1.00M U K1=8.18 B2=11.67 1975DWa (28849)1373
B(Ag+HL)=6.00
B(Ag+2HL)=8.78
****
C4H4N2O2S H2L Thiobarbituric CAS 504-17-6 (4279)
4,6-Dihydroxy-2-mercaptopyrimidine, 2-thiobarbituric acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE NaClO4 25°C 0.50M U 1986KPa (28882)1374
Kso(AgL)=-10.91
Kso(AgL2)=-22.82
****
C4H4N2S HL CAS 1450-85-7 (1521)

2-Mercapto-1,3-diazine, 2-Mercaptopyrimidine; C4H3N2.SH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	30°C	0.50M	U		K1=5.63		1989WIa	(28931)1375

****

C4H5N L Crotononitrile CAS 4786-20-3 (3561)
2-Butenenitrile; CH3.CH:CH.CN

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	dis	oth/un	61°C	4.0M	U		K1=-0.03		1968SCb	(29284)1376

Medium: LiNO3. Method: gas chromatography

****

C4H5N L 2-Cyanopropene CAS 126-98-7 (3560)
Methacrylonitrile; H2C:C(CH3)CN

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	dis	oth/un	61°C	4.0M	U		K1=-0.11		1968SCb	(29285)1377

Medium: LiNO3. Method: gas chromatography

****

C4H5NO L Methylisoxazole CAS 5765-44-6 (2045)
5-Methylisoxazole; C3H2NO.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	KNO3	25°C	0.50M	U		K1=0.99	B2=1.76	1977LKa	(29289)1378

Ag/Ag+ concentration cell

****

C4H5NO2 HL Succinimide CAS 123-56-8 (390)
Succinic acid imide; (CH2.CO)2NH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=4.36	B2=9.64	1979BBa	(29306)1379
Ag+	gl	KNO3	25°C	0.50M	U	H	K1=4.36	B2= 9.64	1979BEc	(29307)1380

By calorimetry: DH(K1)=-23.4 kJ mol-1, DS(K1)=5.0 J K-1 mol-1.
DH(B2)=-50.63, DS(B2)=14.7.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.10M	U		K1=4.45	B2=9.54	1965COa	(29308)1381

****

C4H5NS L 4-Methiazole CAS 693-95-5 (820)
4-Methylthiazole; C3H2NS.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	M		K1=1.00	B2=4.27	1986BGa	(29324)1382

****

C4H5N3 L CAS 109-12-6 (1480)
2-Amino-1,3-diazine; C4H3N2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	U		K1=2.27 B2=5.08	1986KLa (29342)	1383

****
C4H5N3 L Aminopyrazine CAS 5049-61-6 (2529)
2-Amino-1,4-diazine; C4H3N2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	U	H	K1=1.81 B2=3.50	1974HEa (29346)	1384

****
C4H6 L 1,3-Butadiene CAS 106-99-0 (4245)
1,3-Butadiene; CH2:CH.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	20°C	0.10M	U	I	K1=1.67	1971PTc (29439)	1385

K1(I=0.5)=1.67, K1(1.0)=1.66, K1(I=2.5)=1.67
I=0.1 KClO4, K1=1.68; I=0.1 LiNO3, K1=1.67,; I=0.1 Zn(NO3)2), K1=1.67

****
C4H6N2 L 2-Me-Imidazole CAS 693-98-1 (122)
2-Methyl-1,3-diazole; C3H3N2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	M		K1=3.54 B2=7.14	1986BGa (29469)	1386
Ag+	EMF	KNO3	25°C	0.50M	U		K1=3.54 B2=7.14	1985BGa (29470)	1387

Simultaneous measurement of Ag+ in a concentration cell and of pH
Using glass electrode alone K1=3.50, B2=7.25

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	1.00M	U		K1=3.11 B2=6.98	1969NNa (29471)	1388

****
C4H6N2 L Methylpyrazole CAS 453-58-3 (368)
3-Methyl-1,2-diazole; C3H3N2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	M		K1=2.33 B2=4.94	1986BGa (29500)	1389
Ag+	ISE	alc/w	25°C	20%	C T H		K1=2.41 B2=4.80	1977PGb (29501)	1390

****
C4H6N2 L N-Me-Imidazole CAS 616-47-7 (354)
N-Methyl-1,3-diazole; C3H3N2.CH3

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

```
Ag+        ISE KNO3   25°C 0.50M M        K1=2.95   B2=6.33   1986BGa (29555)1391
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=2.95   B2=6.33   1985BGa (29556)1392
Simultaneous measurement of Ag+ in a concentration cell and of pH
Using glass electrode alone, K1=2.91, B2=6.56
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C  1.0M U T      K1=3.00   B2=6.89   1964BWa (29557)1393
K1=2.98(25.6 C),2.94(27 C); K2=3.87(25.6 C),3.82(27 C)
********************************************************************************
C4H6N2O                 L                       CAS 13148-65-7  (2050)
2,5-Dimethyl-1,3,4-oxadiazole; C2N2O(CH3)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=1.60   B2=2.84   1977LGa (29613)1394
Ag+/Ag concentration cell
********************************************************************************
C4H6N2O2               HL                       CAS 616-04-6  (3583)
1-Methylimidazolidine-2,4-dione  (1-Methylhydantoin)
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M U        K1=4.37   B2=9.34   1965COa (29622)1395
********************************************************************************
C4H6N2O2               HL                       CAS 616-03-5  (3584)
5-Methylimidazolidine-2,4-dione  (5-Methylhydantoin)
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M U        K1=4.34   B2=9.27   1965COb (29624)1396
********************************************************************************
C4H6N2S                 L                       CAS 27464-82-0  (1457)
2,5-Dimethyl-1,3,4-thiadiazole; C2N2S(CH3)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=1.79   B2=3.25   1985GLa (29641)1397
********************************************************************************
C4H6N2S                HL    Methimazole      CAS 60-56-0  (1824)
N-Methyl-2-mercaptoimidazole; C3H2N2(CH3).SH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.50M C        K1=7.70   B2= 9.40  1977LWa (29658)1398
                                          B3=12.48
Method: Ag electrode.
********************************************************************************
C4H6N4                  L                       CAS 627-40-7  (4252)
1,5-Trimethylenetetrazole;
--------------------------------------------------------------------------------
```

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.40M U  I     B2=3.01        1969DPc (29667)1399
B2(I=0.4)=2.98
*************************************************************************
C4H6O                   L                      CAS 627-41-8  (4248)
3-Methoxyprop-1-yne; HCC.CH2.OCH3
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        EMF NaNO3  25°C 1.00M U        K1=0.39        1973STd (29691)1400
*************************************************************************
C4H6O                   L    Crotonaldehyde   CAS 4170-30-3  (2988)
Crotonaldehyde; CH3.CH:CH.CHO
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=-0.72       1938WLa (29693)1401
*************************************************************************
C4H6O                   L    But-1-en-3-one   CAS 78-94-4  (3562)
Methyl vinyl ketone, but-1-en-3-one; H2C:CH.CO.CH3
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=-0.4        1968FKa (29694)1402
*************************************************************************
C4H6O2                  L    Vinyl acetate    CAS 108-05-4  (3564)
Acetic acid vinyl ester; CH3.CO.OCH:CH2
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=0.01   B2=-0.39  1968FKa (29707)1403
*************************************************************************
C4H6O2                 HL    Crotonic acid    CAS 107-93-7  (2990)
But-2-enoic acid; CH3.CH:CH.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=-1.04       1938WLa (29710)1404
*************************************************************************
C4H6O2                  L    Me methacrylate  CAS 96-33-3  (815)
Methyl propenoate; CH2:CH.CO2.CH3
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=-0.4   B2=-1.00  1968FKa (29729)1405
*************************************************************************
C4H6O4S               H2L    Thiodiacetic     CAS 123-93-3  (140)
2,2'-Thiodiglycolic acid, Thiodiethanoic acid; HOOC.CH2.S.CH2.COOH
-------------------------------------------------------------------------
```

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE NaNO3  20°C  1.0M U        K1=2.7    B2=6.3    1944LAa (30200)1406
*************************************************************************
C4H6O4S               H3L    Thiomalic acid   CAS 70-49-5  (109)
2-Mercaptosuccinic acid, 2-Sulfanyl-1,4-butanedioic acid; HOOC.CH(SH).CH2.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.50M U        K1=4.12        1981NAa (30304)1407
                                         K(AgL+H)=3.15
-------------------------------------------------------------------------
Ag+        gl  KNO3   35°C 0.10M U T H    K1=7.17        1968SGj (30305)1408
K1=6.89(25 C), 6.95(30 C). At 30 C: DH(K1)=-31.4 kJ mol-1(?),DS=29 J K-1 m-1
-------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U        K1=7.85        1965LMa (30306)1409
*************************************************************************
C4H6O4Se              H2L                    CAS 6228-62-2  (984)
Selenodiethanoic acid; HOOC.CH2.Se.CH2.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=4.46   B2=7.02   1975LPa (30445)1410
                                         K(Ag+HL)=3.42
                                         K(Ag+H2L)=3.02
*************************************************************************
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
-------------------------------------------------------------------------
Ag+        dis NaClO4 20°C 0.10M U        K1=<2.0        1963STc (31146)1411
*************************************************************************
C4H7N                   L    Butyronitrile    CAS 109-74-0  (2992)
Butyronitrile; CH3.CH2.CH2.CN
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE oth/un 20°C 0.05M U        B2=0.94        1924PAa (31434)1412
*************************************************************************
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
-------------------------------------------------------------------------
Ag+        gl  oth/un 30°C 0.10M U        K1= 4.70  B2=11.67  1981PUa (31748)1413
-------------------------------------------------------------------------
Ag+        ISE KNO3   30°C 0.10M U        K1=4.2    B2=6.97   1977PUa (31749)1414
*************************************************************************
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
Ag+	gl	KNO3	25°C	1.00M	C		K1=3.27 B2=5.90 B(AgHL)=11.40	1992ANa	(32152)1415
Ag+	ISE	NaClO4	25°C	1.00M	U	I	K1=3.30	1989MIa	(32153)1416
Ag+	ISE	KNO3	25°C	0.10M	C	H	K1=3.51 B2=5.79	1981SCa	(32154)1417

By calorimetry: DH(K1)=-35.8 kJ mol-1, DS=-9.2

****

C4H7OCl L CAS 23679-22-3 (4310)

cis-2-Chlorovinyl ethyl ether; Cl.CH:CH.O.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	1.00M	U		K1=-0.45	1969OFa	(32452)1418

Medium: 50% EtOH, 0.1 M NaClO4

****

C4H7OCl L CAS 23679-21-2 (4311)

trans-2-Chlorovinyl ethyl ether; Cl.CH:CH.O.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	1.00M	U		K1=-0.23	1969OFa	(32453)1419

Medium: 50% EtOH, 0.1 M NaClO4

****

C4H8 L But-1-ene CAS 106-98-9 (2985)

But-1-ene; CH2:CH.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	oth/un	25°C	->0	U		K1=2.08	1952HTa	(32457)1420

****

C4H8 L Isobutene CAS 107-01-7 (2986)

Isobutene; CH3.CH(:CH2)CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	oth/un	25°C	->0	U		K1=1.85	1952HTa	(32459)1421
Ag+	dis	KNO3	25°C	1.0M	U		K1=1.79	1938WLa	(32460)1422

****

C4H8 L CAS 590-18-1 (804)

cis-But-2-ene; CH3.CH:CH.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	oth/un	25°C	->0	U		K1=1.79	1952HTa	(32461)1423

****
C4H8 L CAS 624-64-6 (805)
trans-But-2-ene; CH3.CH:C(CH3)H

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis oth/un 25°C ->0 U K1=1.39 1952HTa (32463)1424
****
C4H8Cl2S L (6425)
Bis(2-Chloroethyl) sulfide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% C I K1=2.45 B2=4.28 1990TIa (32465)1425
B3=5.31
Medium: MeOH, 0.1 M Et4NClO4. Data also in acetone (K1=2.48, B2=4.18, B3=5.88) and DMSO (K1=0.92) and DMF (K1=1.84, B2=2.80)
****
C4H8N2O3 HL Asparagine CAS 70-47-3 (17)
2-Aminobutanedioic acid 4-amide; H2N.CH(CH2.CO.NH2).COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl oth/un 30°C 0.10M U K1=3.64 B2=6.64 1981PUa (32653)1426

Ag+ ISE oth/un 25°C 0.60M U K1=3.30 B2=6.45 1967AMb (32654)1427
****
C4H8N2O3 HL Gly-Gly CAS 556-50-3 (54)
Glycyl-glycine; H2N.CH2.CO.NH.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaClO4 30°C 0.10M U T K1=8.01 1980SBe (32970)1428
At 40 C, K1=8.06

Ag+ gl oth/un 25°C 0.10M U T K1=2.90 B2=5.65 1971PEd (32971)1429
Temperature range 10-40C
K1(10 C)=3.20, K1(40 C)=2.71, B2(10 C)=6.18, B2(40 C)=5.21

Ag+ gl oth/un 21°C 0.02M U K1=3.1 1952PEa (32972)1430
Medium: AgNO3

Ag+ gl oth/un 25°C ->0 U K1=2.72 B2=4.98 1951MOa (32973)1431
****
C4H8N2S L Thiosinamine CAS 109-57-9 (2377)
1-Allylthiourea; CH2:CH.CH2.NH.CS.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF alc/w 25°C 100% M T H K1=9.64 B2=12.71 1994MGa (33150)1432

B3=15.19
Medium: EtOH, 0-40 C. DH(K1)=-109 kJ mol-1, DS=-184 J K-1 mol-1; DH(B2)=-133
DS=-204; DH(B3)=-210, DS=414. Method: Ag elect. Other alkyl-thioureas also
---
Ag+ EMF alc/w 25°C 100% M T H K1=9.70 B2=13.89 1990MMf (33151)1433
B3=16.48
Medium: MeOH, 0-40 C. DH(K1)=-76 kJ mol-1, DS=-71 J K-1 mol-1; DH(B2)=-82.3,
DS=-10; DH(B3)=-105, DS=-37. Method: Ag electrode
****
C4H8N2S HL CAS 2055-46-1 (1522)
3,4,5,6-Tetrahydro-pyrimidine-2-thiol; C4H7N2.SH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 30°C 0.50M U K1=3.8 B2=6.7 1989WIa (33160)1434
****
C4H8N2S L CAS 2122-19-2 (2372)
4-Methylimidazolidine-2-thione, 4-Methyl-N,N'-ethylenethiourea
---
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE diox/w 28°C 80% U 1964KKa (33164)1435
K(Ag+3HL)=9.5
Medium: 80% dioxan, 2M NH4NO3
****
C4H8O L CAS 56640-70-1 (2994)
1-Methylallyl alcohol; CH2:CH.CH(CH3)OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 0.10M U K1=1.15 1949KAb (33172)1436
****
C4H8O L 2-Methoxypropen CAS 116-11-0 (3565)
2-Methoxypropene; CH3.C(OCH3):CH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis non-aq 20°C 100% U T H K1=0.87 1968FKb (33174)1437
Medium: ethylene glycol. K1=0.98(10 C). DH(K1)=-19.6 kJ mol-1, DS=-50
****
C4H8O L CAS 513-42-8 (2995)
2-Methylallyl alcohol; CH2:C(CH3).CH2.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C 0.10M U K1=1.04 1949KAb (33175)1438
****
C4H8O L (4253)
3-Methoxyprop-1-ene; CH2:CH.CH2.OCH3

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        EMF NaNO3  25°C 1.00M U        K1=0.71        1973STd (33177)1439
*************************************************************************
C4H8O                   L    Crotyl alcohol   CAS 6117-91-5  (2993)
But-2-en-1-ol; CH3.CH:CH.CH2.OH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  1.0M U TIH    K1=0.81        1977HSa (33178)1440
By temp coeff., DH1=-20.8 kJ mol-1, DS1=-54 J K-1 mol-1, also in MeOH etc.
-------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  2.0M U        K1=0.896  B2=0.66   1967HVa (33179)1441
-------------------------------------------------------------------------
Ag+        sol KNO3   25°C 0.10M U        K1=0.59        1949KAb (33180)1442
-------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=0.71        1938WLa (33181)1443
*************************************************************************
C4H8O                  HL    Crotyl alcohol   CAS 627-27-0  (61)
But-3-en-1-ol; CH2:CH.CH2.CH2.OH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  1.0M U TIH    K1=1.801  B2=2.25   1977HSa (33185)1444
By temp coeff., DH1=-23.8 kJ mol-1, DS1=-45 J K-1 mol-1, also in MeOH etc.
*************************************************************************
C4H8O                   L    Ethoxyethene;    CAS 109-92-2  (3566)
Ethyl vinyl ether; C2H5.O.CH:CH2
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=1.11   B2=0.91   1968FKa (33186)1445
-------------------------------------------------------------------------
Ag+        dis non-aq 30°C 100%  U T H    K1=0.74        1968FKb (33187)1446
Medium: ethylene glycol. K1=0.96(10 C),0.83(20 C). DH(K1)=-18.4 kJ mol-1,
DS=-46 J K-1 mol-1
*************************************************************************
C4H8O2S                HL                    CAS 627-04-3  (3007)
S-Ethylthioethanoic acid; CH3.CH2.S.CH2.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.10M U        K1=3.92   B2=6.95   1968PSb (33398)1447
Acetate buffer. I=0.2 M, K(Ag+HL)=3.17
-------------------------------------------------------------------------
Ag+        oth NaNO3  20°C  1.0M U        K1=4.1    B2=7.2    1944LAa (33399)1448
*************************************************************************
C4H8O4S2               L                     CAS 26413-18-3  (5949)
1,3-Dithiane 1,1,3,3-tetraoxide;
-------------------------------------------------------------------------
```

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 2.00M U                         1983DEa (33690)1449
                                        K(AgBr(s)+L+OH=AgLOH+Br)=-8.2
                                        K(AgBr(s)+2L=AgL2+Br)=3.4
Ionic medium:2 M KOH. Data also for -CH3 and -C2H5 derivatives of L.
*************************************************************************
C4H8S                   L                       CAS 110-01-0  (150)
Tetrahydrothiophene; cyclo(-CH2.CH2.S.CH2.CH2-)
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  IH    K1=-0.05       1987ZPa (33727)1450
In pyridine; 0.1M Et4NClO4. In DMSO,0.1M NH4ClO4, K1=1.24
-------------------------------------------------------------------------
Ag+        nmr NaNO3  27°C 0.50M U TI     K1=4.70        1982SSb (33728)1451
Medium: D2O. At 34 C in d6-DMSO, 0.01 M DNO3: K1=1.63
-------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  50%  C        K1=3.51        1979SRa (33729)1452
-------------------------------------------------------------------------
Ag+        sp  alc/w  25°C  50%  C        K1=3.51        1975RSa (33730)1453
Medium: 50% EtOH, 1.0 M NaClO4
*************************************************************************
C4H9ClS                 L                         (6424)
2-Chloroethyl ethyl sulfide;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  C  I     K1=3.03   B2=4.96   1990TIa (33745)1454
                                        B3=5.97
Medium: MeOH, 0.1 M Et4NClO4. Data also for acetone (K1=3.08, B2=5.43,
B3=6.33) and DMSO (K1=1.31, B2=1.97) and DMF (K1=2.43, B2=3.22, B3=4.00)
*************************************************************************
C4H9N                   L                       CAS 56930-04-2  (3570)
trans-4-Aminobut-2-ene; CH3.CH:CH.CH2.NH2
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  2.0M U        K1=0.107       1967HVa (33756)1455
*************************************************************************
C4H9NO                  L                       CAS 127-19-5  (477)
N,N-Dimethylacetamide; CH3.CO.N(CH3)2
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        K1=1.7    B2=2.7    1976CWc (33759)1456
                                        B3=3.2
                                        B4=3.4
Medium: propylene carbonate
*************************************************************************
```

C4H9NO L Morpholine CAS 110-91-8 (318)
Perhydro-1,4-oxazine, Tetrahydro-1,4-oxazine; C4H8NO

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	C	H	K1=2.58	B2=4.68	1987CBa	(33785)1457

DH1= -24.85 kJ mol-1, DH(K2) = -30.70, DS1= -33.9, DS(K2) = -62.8.
Ag/AgCl electrode in DMSO

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	R4N.X	25°C	2.00M	U		K1=4.18	B2=6.91	1969PDa	(33786)1458

Medium: NH4NO3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	oth	non-aq	?	100%	U		B2=9.17		1965MMa	(33787)1459

Method: coulometric titration. Medium: acetone, 0.1 M NaClO4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	alc/w	25°C	50%	U		K1=2.69	B2=5.48	1955ANc	(33788)1460

Medium: 50 mol % EtOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=2.25	B2=4.92	1948BVa	(33789)1461

****
C4H9NO2 HL 4-Aminobutyric CAS 56-12-2 (574)
4-Aminobutanoic acid; H2N.CH2.CH2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	15°C	0.50M	U	T	K1=3.54	B2=7.46	1970PTa	(33979)1462

K1(0 C)=3.82, K1(40 C)=3.46, K2(0 C)=4.12, K2(40 C)=3.75

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	20°C	0.50M	U		K1=3.47	B2=7.24	1968ALc	(33980)1463

By Ag/AgCl ISE: B2=7.32

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=3.46	B2=7.21	1968TPb	(33981)1464

****
C4H9NO2 HL Dimethylglycine CAS 1118-68-9 (88)
N,N-Dimethyl-2-aminoethanoic acid; (CH3)2N.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	oth/un	25°C	.013M	U		K1=2.90	B2=5.71	1959DGa	(34027)1465

****
C4H9NO2S HL CAS 3335-52-2 (8306)
2-(Aminoethyl)thioethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	KNO3	25°C	0.50M	C		K1=5.15	B2= 9.21	1984TSb	(34043)1466
							K(Ag+H2L)=1.95			
							K(Ag+HL)=2.61			
							K(Ag+2H2L)=2.75			
							K(Ag+H2L+HL)=3.91			

Method: Ag electrode. K(Ag+2HL)=4.44, K(Ag+HL+L)=7.75, B(Ag2L2)=13.22, B(Ag2L)=7.37.

****

C4H9NO2S HL Methylcysteine CAS 1187-84-4 (84)
2-Amino-3-methylmercaptopropanoic acid; H2N.CH(CH2.S.CH3)COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	KNO3	25°C	0.50M	C		K1=5.06	B2= 9.46	1984TSb (34086)	1467
							K(Ag+H2L)=2.16			
							K(Ag+HL)=2.47			
							K(Ag+2H2L)=3.16			
							K(Ag+H2L+HL)=3.91			

Method: Ag electrode. K(Ag+2HL)=4.00, K(Ag+HL+L)=7.39, B(Ag2L2)=13.06, B(Ag2L)=7.08.

Ag+	ISE	KNO3	25°C	0.10M	C		K1=5.42	B2=9.62	1981PSb (34087)	1468
							B(AgHL)=11.54			
							B(AgH2L2)=23.10			
Ag+	gl	KNO3	25°C	0.10M	U		K1=5.25		1964LMa (34088)	1469

****

C4H9N3S L (3587)
5-Methyl-2-thioxo-1,3,4-triazahex-4-ene (acetone thiosemicarbazone)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	alc/w	25°C	40%	U				1961TKb (34432)	1470
							B3=13.2			

Medium: 40% EtOH, 0.052 M NaC2H3O2

****

C4H9O2PS2 HL CAS 89620-01-9 (4282)
Phosphorodithioic acid O,O'-(1,2-dimethyl)ethylene ester, Methylvinylphosphorodithioate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	alc/w	25°C	90%	U		B2=14.61		1971TCa (34438)	1471

Medium: 90% EtOH, 0.3 M NaClO4

****

C4H10N2 L Piperazine CAS 110-85-0 (2826)
Piperazine; cyclo(-CH2.CH2.NH.CH2.CH2.NH-)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.10M	U		K1=3.33	B2=6.04	1973HBa (34501)	1472
Ag+	ISE	R4N.X	25°C	2.00M	U		K1=3.32	B2=6.87	1969PMb (34502)	1473

Medium: NH4NO3

```
Ag+        gl  NaNO3  20°C 0.10M U        K1=3.4         1952SMa (34503)1474
                                          K(Ag+HL)=1.75
                                          K(Ag+AgL)=1.5
**************************************************************************
C4H10N2O               HL                     CAS 27620-10-6  (4273)
alpha-Hydroxyisobutyramidine;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U                         1970GSb (34515)1475
                                          K(Ag+HL)=4.05
                                          K(Ag+2HL)=8.61
                                          K(Ag(HL)2+OH)=3.45
**************************************************************************
C4H10O2S                L                     CAS 111-48-8  (4275)
3-Thiapentan-1,5-diol; HO.CH2.CH2.S.CH2.CH2.OH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  NaNO3  25°C  1.0M C  I     K1=3.43        1979SRa (34676)1476
In 1.0 M NaClO4, K1=3.8
--------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C 0.50M C   H    K1=3.53   B2= 5.81  1976MHc (34677)1477
                                          B3=6.68
Method: Ag electrode. By calorimetry: DH(K1)=-31.6 kJ mol-1; DH(B2)=-66.5,
DS(B2)=-111 J K-1 mol-1; DH(B3)=-75, DS(B3)=-124
--------------------------------------------------------------------------
Ag+        ISE KNO3   20°C 1.00M U   H    K1=3.7    B2=6.10   1970WSa (34678)1478
DH(K1)=-33.5 kJ mol-1, DS(K1)=-42.3 J K-1 mol-1, DH(K2)=-28.5, DS(K2)=-52.7
at pH 3
**************************************************************************
C4H10S                  L                     CAS 352-93-2  (4259)
Diethyl sulfide; C2H5.S.C2H5
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  C  I     K1=3.95   B2=6.60   1990TIa (34718)1479
                                          B3=7.63
Medium: MeOH, 0.1 M Et4NClO4. Data also in acetone (K1=3.87, B2=6.91,
B3=8.05) and DMSO (K1=1.96, B2=2.84) and DMF (K1=3.02, B2=4.77, B3=5.12)
**************************************************************************
C4H11N                  L    iso-Butylamine   CAS 78-81-9  (2355)
1-Amino-2-methylpropane; H2N.CH2.CH(CH3).CH3
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        oth mixed    ?  0.10M U        B2=9.68        1965MMa (34726)1480
Method: coulometric titration.  Medium: acetone, 0.1 M NaClO4
--------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U T      K1=3.38   B2=7.24   1948BVa (34727)1481
```

dlogB2/dt=-0.032
****
C4H11N L Butylamine CAS 109-73-9 (159)
1-Aminobutane; CH3.CH2.CH2.CH2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C I K1=3.60 B2= 6.95 1999THa (34748)1482
Medium: acetonitrile. Method: Ag/Ag+ electrode.
Also data for medium: DMSO

Ag+ gl KNO3 25°C 1.00M U K1=3.453 B2=7.571 1993GYa (34749)1483
B(AgH-1L2)=-3.66

Ag+ ISE non-aq 25°C 100% C H K1=3.58 B2=7.34 1987CBa (34750)1484
DH1= -31.40 kJ mol-1, DH(K2)=-40.10, DS1= -37.2, DS(K2)= -62.4.
Ag/AgCl electrode in DMSO

Ag+ gl KCl 25°C 0.10M U K1=3.65 B2=7.77 1980HAa (34751)1485

Ag+ gl none 25°C 0.00 U K1=3.55 B2=7.77 1971HTa (34752)1486

Ag+ gl KNO3 20°C 0.50M U K1=3.50 B2=7.60 1968ALc (34753)1487
By Ag/AgCl ISE: B2=7.59

Ag+ oth non-aq ? 100% U B2=10.3 1965MMa (34754)1488
Method: coulometric titration. Medium: acetone, 0.1 M NaClO4

Ag+ gl oth/un 25°C 0.50M U K1=3.43 B2=7.48 1950BJa (34755)1489
Medium: C4H11N.HNO3
****
C4H11N L t-Butylamine CAS 75-64-9 (158)
2-Amino-2-methylpropane; H2N.C(CH3)3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KCl 25°C 0.10M U K1=3.69 B2=7.87 1980HAa (34782)1490

Ag+ gl alc/w 25°C 50% U K1=4.01 B2=8.26 1955ANc (34783)1491
Medium: 50 mol % EtOH
****
C4H11N L sec-Butylamine CAS 33966-50-6 (3578)
2-Aminobutane; C2H5.CH(NH2).CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ oth mixed ? 0.10M U B2=10.76 1965MMa (34792)1492
Method: coulometric titration. Medium: acetone, 0.1 M NaClO4
****
C4H11N L Diethylamine CAS 109-89-7 (1331)

Diethylamine, 3-azapentane; (C2H5)2NH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	1.00M	U		K1=3.11 B2=6.43	1993GYa (34803)	1493
Ag+	ISE	R4N.X	25°C	2.00M	U		K1=3.00 B2=6.96	1968PMa (34804)	1494
Medium: NH4NO3									
Ag+	ISE	R4N.X	25°C	2.00M	U		K1=4.93 B2=7.08	1968PMc (34805)	1495
Medium: NH4NO3									
Ag+	ISE	alc/w	25°C	80%	U	I	B2=7.81	1963PLa (34806)	1496
Medium: 80% MeOH, 0.02. B2=6.27(0%), 6.38(20%), 6.51(30%), 6.59(40%), 6.63(50%), 6.64(60%), 6.72(70%)									
Ag+	gl	alc/w	25°C	50%	U		K1=3.26 B2=6.43	1955ANc (34807)	1497
Medium: 50 mol % EtOH									
Ag+	ISE	oth/un	25°C	->0	U		B2=6.38	1955FYb (34808)	1498
Ag+	gl	KNO3	30°C	0.50M	U		K1=2.98 B2=6.20	1945CMa (34809)	1499
Ag+	ISE	oth/un	15°C	0.10M	U		B2=6.40	1936BWa (34810)	1500
Ag+	ISE	alc/w	25°C	50%	U		B2=6.37	1934LAb (34811)	1501
Medium: 50 mol % EtOH									
Ag+	ISE	oth/un	15°C	0.01M	U		B2=6.98	1928JOa (34812)	1502
Ag+	ISE	oth/un	16°C	0.01M	U		B2=5.77	1924PAa (34813)	1503

****

C4H11N L (6678)

Dimethylethylamine; (CH3)2NCH2CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	1.00M	U		K1=1.979 B2=3.49	1993GYa (34822)	1504

****

C4H11NO L CAS 110-73-6 (900)

2-(Ethylamino)ethanol; CH3.CH2.NH.CH2.CH2.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	2.00M	U		B2=5.77	1970UPa (34835)	1505

****

C4H11NO L CAS 13054-87-0 (2665)

2-Amino-1-butanol; CH3.CH2.CH(NH2).CH2.OH

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

```
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=3.35   B2=7.14   1972PEa (34840)1506
********************************************************************************
C4H11NO                 L                      CAS 13325-10-5  (3589)
4-Amino-1-butanol; H2N(CH2)4.OH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=3.32   B2=7.20   1972PEa (34858)1507
--------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.50M U        K1=3.39   B2=7.27   1968ALc (34859)1508
By Ag/AgCl ISE: B2=7.32
********************************************************************************
C4H11NO                 L                      CAS 108-01-0  (3590)
N,N-Dimethyl-2-aminoethanol; HO.CH2.CH2.N(CH3)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sol oth/un 20°C  0.0  U        B2=3.83        1961ALa (34873)1509
Medium: 0 corr. By glass electrode: B2=3.80
********************************************************************************
C4H11NOS                L                        (1220)
1-Hydroxy-3-thia-5-aminopentane; HO.CH2.CH2.S.CH2.CH2.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=4.81   B2=9.21   1977TGa (34885)1510
                                        B(2Ag+L)=7.05
                                        B(2Ag+2L)=12.82
                                        B(Ag+HL)=2.55
                                        B(Ag+HL+L)=7.54
B(Ag+2HL)=4.11
--------------------------------------------------------------------------------
Ag+        cal KNO3   25°C 0.50M C   H                1977TGc (34886)1511
DH(Ag+HL)=-28.1 kJ mol-1, DH(Ag+2HL)=-46.44, DH(Ag+HL+L)=-70.3,
DH(B2)=-80.0, DH(2Ag+2L)=-118.0, DH(2Ag+L)=-66.9.
--------------------------------------------------------------------------------
Ag+        gl  oth/un 20°C  0.0  U T H    K1=4.97   B2=9.08   1959LBb (34887)1512
DH(K1)=-37 kJ mol-1, DS=-29; DH(K2)=-25, DS=-4. 10 C: K1=5.18, K2=4.34;
30 C: K1=4.78, K2=3.95; 40 C: K1=4.52, K2=3.80
--------------------------------------------------------------------------------
Ag+        gl  NaClO4 30°C  1.0M U T      K1=4.53   B2=7.46   1953MCa (34888)1513
50 C: K1=4.18, K2=2.65. At I=0 K1=4.69, K2=4.04
********************************************************************************
C4H11NO2                L    Diethanolamine   CAS 111-42-2  (89)
2,2'-Iminodiethanol; HN(CH2.CH2.OH)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.50M U   H    K1=2.69   B2=5.48   1978MHa (34935)1514
```

By calorimetry, DH1=-21.5 kJ mol-1, DS1=20.8 J K-1 mol-1, DH(B2)=-49, DS(B2)=60

Ag+ gl NaNO3 25°C 0.20M U K1=3.3 B2=5.7 1974UPa (34936)1515
Medium: LiNO3

Ag+ gl alc/w 25°C 100% U K1=5.0 B2=7.2 1974UPa (34937)1516
B3 7.04
Medium: MeOH, 0.2 M LiNO3

Ag+ gl alc/w 25°C 100% U K1=5.0 B2=7.4 1974UPa (34938)1517
B3 7.3
Medium: MeOH, 0.2 M LiNO3

Ag+ gl oth/un ? 0.20M U K1=4.6 B2=6.7 1974UPb (34939)1518
Medium: DMF, 0.2 M LiNO3. In DMSO: K1=3.3, B2=5.3

Ag+ ISE mixed 25°C 60% U I K1=4.74 B2=6.18 1973MPf (34940)1519
B3=6.78
Medium: 20-95% acetone, 0.4 M LiNO3
K1(20%)=4.17, B2(20%)=5.53, B2(95%)=6.85, B3(20%)=6.20, B3(95%)=7.61

Ag+ ISE diox/w 25°C 40% U I K1=4.78 B2=5.95 1972MPc (34941)1520
B3=7.08
Medium: 20-70% dioxan, 0.4 M LiNO3
K1(20%)=3.87, B2(20%)=5.57, B2(70%)=6.23, B3(20%)=6.62, B3(70%)=7.20

Ag+ ISE KNO3 25°C 0.50M U K1=2.70 B2=5.64 1972PEa (34942)1521

Ag+ ISE alc/w 25°C 100% U I K1=5.40 B2=6.98 1965MPb (34943)1522
B3=7.68
Medium:EtOH,0.4 LiNO3. K1=3.48(0%),4.30(40%),4.90(80%),5.04(90%); B2=5.60(0%
6.20(40%),6.68(80%),6.74(90%); B3=6.2(0%),6.53(40%),7.08(80%),7.28(90%)

Ag+ ISE oth/un 25°C 0.01M U B2=5.44 1961ALb (34944)1523

Ag+ gl KNO3 25°C 0.50M U K1=2.69 B2=5.48 1956BJb (34945)1524

Ag+ gl alc/w 25°C 50% U K1=2.69 B2=5.48 1955ANc (34946)1525
Medium: 50 mol % EtOH

****

C4H11NO2 L CAS 115-69-5 (949)
2-Amino-2-methyl-1,3-propanediol; HO.CH2.C(NH2)(CH3).CH2.OH

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

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Ag+ gl oth/un 25°C .027M U K1=3.20 B2=6.86 1959DGa (34981)1526

****

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
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 3.00M C        K1=3.406  B2=7.198  1982GFb (35039)1527
                                          B(AgH-1L)=-6.40
--------------------------------------------------------------------------------
Ag+        vlt NaClO4 25°C 2.00M U        B2=6.45        1975BMb (35040)1528
--------------------------------------------------------------------------------
Ag+        gl  KNO3   60°C 0.05M U T      K1=2.79   B2=5.69   1966DGa (35041)1529
K1=3.50(0 C),3.39(10 C),3.22(20 C),3.05(30 C),2.90(40 C),2.90(50 C);
K2=4.04(0 C),3.77(10 C),3.53(20 C),3.33(30 C),3.16(40 C),3.02(50 C)
--------------------------------------------------------------------------------
Ag+        gl  KNO3    0°C 0.05M U T H                   1966DGa (35042)1530
DH(K1)=-10(0C),-29(20),-24(40),7(60) kJ mol-1; DS=32,-36,-21,75 J K-1 mol-1
DH(K2)=-42(0C),-36(20),-33(40),-22(60); DS=-78(0), -55(20), -32(40), -10(60)
--------------------------------------------------------------------------------
Ag+        oth KNO3     ?  0.50M U        K1=3.05   B2=6.53   1959SWb (35043)1531
--------------------------------------------------------------------------------
Ag+        gl  oth/un 23°C    ?  U        K1=3.09   B2=6.56   1955BBa (35044)1532
********************************************************************************
C4H11NO3S              HL                      CAS 14064-34-7  (4286)
4-Aminobutanesulfonic acid; H2N.CH2CH2CH2CH2.SO3H
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=3.38   B2=7.08   1972PTa (35068)1533
********************************************************************************
C4H11NS                 L                       CAS 36489-03-9  (1216)
1-Amino-3-thiapentane; H2N.CH2.CH2.S.CH2.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=5.07   B2=9.66   1977TGa (35122)1534
                                          B(2Ag+L)=7.42
                                          B(2Ag+2L)=13.66
                                          B(Ag+HL)=2.99
                                          B(Ag+L+HL)=8.09
B(Ag+2HL)=4.66
--------------------------------------------------------------------------------
Ag+        cal KNO3   25°C 0.50M C   H                 1977TGc (35123)1535
DH(Ag+HL)=-31.0 kJ mol-1, DH(Ag+2HL)=-58.2, DH(Ag+HL+L)=-77.0,
DH(B2)=-84.9, DH(2Ag+2L)=-127, DH(2Ag+L)=-72.0.
********************************************************************************
C4H11NS                 L                       CAS 4104-45-4  (1219)
1-Amino-4-thiapentane; H2N.CH2.CH2.CH2.S.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=4.79   B2=7.82   1977TGa (35126)1536
                                          B(2Ag+L)=7.20
```

B(2Ag+2L)=13.69
B(Ag+HL)=3.33
B(Ag+HL+L)=7.13
B(Ag+2HL)=5.60

Ag+ cal KNO3 25°C 0.50M C H 1977TGc (35127)1537
DH(Ag+HL)=-31.6 kJ mol-1, DH(Ag+2HL)=-59.0, DH(Ag+HL+L)=-69.5,
DH(B2)=-72.8, DH(2Ag+2L)=-124, DH(2Ag+L)=-60.7.

****

C4H11OPS2 HL CAS 995-79-9 (4283)
O-Ethyl hydrogen P-ethylphosphonodithioate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	25°C	90%	U		B2=16.39	1971TCa (35204)1538	

Medium: 90% EtOH, 0.3 M NaClO4

****

C4H11O2PS2 H3L CAS 298-06-6 (210)
O,O'-Diethyldithiophosphoric acid; (C2H5O)2P(S)SH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	25°C	90%	U		K2=15.24	1971TCa (35223)1539	

Medium: 90% EtOH, 0.3 M NaClO4

****

C4H11O3PS HL CAS 2465-65-8 (3596)
Phosphorothioic acid OO-diethyl ester; (C2H5O)2.POSH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	1.0M	U		B3=10.81	1961TSa (35249)1540	

****

C4H12N2 L CAS 881-93-8 (3581)
1,2-Diamino-2-methylpropane; H2N.CH2.C(NH2)(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	1.0M	C		B2=8.04	1994GYb (35322)1541	
							B(AgHL)=12.30		
							B(AgH2L2)=24.58		
							B(AgHL2)=16.96		
							B(Ag2L2)=12.70		

B(Ag2HL2)=19.67, B(Ag2L3)=15.20

****

C4H12N2 L Putrescine CAS 110-60-1 (360)
1,4-Diaminobutane; H2N.(CH2)4.NH2

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

```
Ag+        gl  KNO3   25°C  1.0M C        K1=5.45        1999GYa (35355)1542
                                          K(Ag+HL)=3.28
                                          K(Ag+2HL)=6.50
                                          B(Ag2L)=7.24
                                          B(Ag2L2)=14.45
Additional method: Ag/Ag2S electrode. B(AgHL)=14.20, B(AgH2L2)=28.36
--------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C 3.00M C        K1=6.4    B2=8.6    1977OCa (35356)1543
                                          B(AgHL)=14.68
                                          B(AgH2L2)=29.83
                                          B(AgH-1L)=-4.4, B(Ag2L)=7.2
                                          B(Ag2L2)=15.27
Medium: LiClO4
--------------------------------------------------------------------------------
Ag+        gl  oth/un 20°C  ->0  U T H    K1=5.67        1958BFa (35357)1544
DH(K1)=-44.8 kJ mol-1, DS1=-46. K1=6.00(10 C), 5.30(30 C), 5.19(40 C)
--------------------------------------------------------------------------------
Ag+        gl  NaNO3  20°C 0.10M U        K1=5.9         1952SMa (35358)1545
                                          K(Ag+HL)=3.1
********************************************************************************
C4H12N2                 L    Dimeen           CAS 110-70-3  (125)
N,N'-Dimethyl-1,2-diaminoethane; CH3.NH.CH2.CH2.NH.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C  1.0M C        K1=3.49   B2=6.53   1994GYb (35415)1546
                                          B(AgHL)=12.09
                                          B(AgHL2)=15.69
                                          B(Ag2L2)=10.52
--------------------------------------------------------------------------------
Ag+        vlt non-aq 25°C 100%  U        K1=2.00        1979SZa (35416)1547
Medium: DMSO. 0.1 M NaClO4
********************************************************************************
C4H12N2                 L                     CAS 108-00-9  (2661)
N,N-Dimethyl-1,2-diaminoethane; (CH3)2N.CH2.CH2.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C   H    K1=4.75   B2= 8.86  2002CNa (35452)1548
Method: Ag electrode. Medium: DMSO, 0.10 M Et4NClO4. By calorimetry,
DH(K1)=-42.1 kJ mol-1, DS(K1)=-50 J K-1 mol-1; DH(B2)=-86.5, DS(B2)=-120.
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C  1.0M C        K1=3.74   B2=7.15   1994GYb (35453)1549
                                          B(AgHL)=11.78
                                          B(AgH2L2)=23.57
                                          B(AgHL2)=15.92
                                          B(Ag2L2)=9.74
B(Ag2L3)=13.09
********************************************************************************
C4H12N2                 L                     CAS 6291-84-5  (2679)
```

N-Methyl-1,3-diaminopropane; CH3.NH.CH2.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	1.00M	C		B2=7.37 B(AgHL)=13.62 B(AgH2L2)=27.69 B(AgHL2)=17.68 B(Ag2L2)=13.50 B(Ag2HL2)=21.19	1994GYa	(35475)1550

****

C4H12N2O L CAS 2752-17-2 (312)

Bis-(2-aminoethyl)ether; H2N.CH2.CH2.O.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	25°C	100%	U	H	K1=7.14	1985BUb	(35500)1551

Medium: MeOH, 0.05M Et4NClO4. DH=-61.5 kJ mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	oth/un	20°C	0.0	U	T H	K1=5.59	1959LBb	(35501)1552

DH(K1)=-60.7 kJ mol-1, DS=-100. K1=6.01(10 C), 5.31(30 C), 5.91(40 C)

****

C4H12N2S L CAS 871-76-1 (1854)

1,5-Diamino-3-thiapentane; H2N.CH2.CH2.S.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	25°C	100%	U	H	K1=8.51	1985BUb	(35561)1553

Medium: MeOH, 0.05M Et4NClO4. DH=-66.4 kJ mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	C		B2=9.80 K(Ag+H2L)=1.52 K(Ag+2H2L)=2.3 K(Ag+HL)=3.9 K(2Ag+2HL)=10.7	1984SGe	(35562)1554

Additional method: Ag electrode. K(2Ag+HL+L)=14.64, B(Ag2L2)=17.21, K(Ag+H2L+HL)=5.7, K(Ag+2HL)=8.18, K(Ag+HL+L)=9.25, B(Ag2L)=9.60.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	cal	KNO3	25°C	0.50M	C	H		1984STc	(35563)1555

DH(Ag+H2L)=-22 kJ mol-1, DS(Ag+H2L)=-45 J K-1 mol-1; DH(Ag+2H2L)=-39, DS(Ag+2H2L)=-87; DH(2Ag+2L)=-143.9, DS=-153; DH(B2)=-78.3, DS(B2)=-75.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	0°C	1.0M	U	T	K1=8.18	1951GOa	(35564)1556

30 C: K1=7.00; 50 C: K1=6.30

****

C4H13N3 L CAS 14478-63-8 (3000)

1,3-Diamino-2-aminomethylpropane; H2N.CH2.CH(CH2.NH2).CH2.NH2

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

```
Ag+        gl  KNO3   20°C 0.10M U        K1=8.70        1962ANb (35630)1557
**************************************************************************
C4H13N3                 L    Dien             CAS 111-40-0  (584)
1,4,7-Triazaheptane, 2,2'Iminobis(ethylamine), diethylenetriamine;
NH2.(CH2)2.NH.(CH2)2.NH2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C 100%  C   H    K1=10.21  B2=13.18  2000CDa (35731)1558
Medium: DMF, 0.10 M Et4N[CF3SO3]. Method: Ag/Ag+ electrode.
By calorimetry: DH(K1)=-90.4, DH(B2)=-108.8 kJ mol-1.
--------------------------------------------------------------------------
Ag+        cal non-aq 25°C 100%  U   H                   1989CDa (35732)1559
Medium: DMSO. DH(K1)=-78.2 kJ mol-1; DS=-119. DH(B2)=-94; DS=-120.
--------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C        K1=7.46   B2=10.20  1988CBa (35733)1560
Medium: DMSO
--------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U   H    K1=8.07        1985BUb (35734)1561
Medium: MeOH, 0.05M Et4NClO4. DH=-55.2 kJ mol-1
--------------------------------------------------------------------------
Ag+        ISE NaNO3  25°C 1.30M C        B2=7.90        1984YMa (35735)1562
                                         B(AgH2L)=20.30, B(AgHL)=13.73
                                         B(AgH2L2)=27.29,B(AgHL2)=17.78
                                         B(Ag2H2L2)=30.03,B(Ag2L2)=15.1
                                         B(Ag2HL2)=22.72,B(Ag3L2)=17.94
B(AgH-1L)=-5.54, B(Ag2L3)=16.39. Measured using glass and Ag electrodes
--------------------------------------------------------------------------
Ag+        gl  NaNO3  20°C 0.10M U        K1=6.1         1950PSa (35736)1563
                                         K(Ag+HL)=3.2
                                         K(Ag+AgL)=1.4
**************************************************************************
C5H4NBr                 L                    CAS 626-55-1  (3617)
3-Bromopyridine; C5H4N.Br
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.50M U   H    K1=1.66   B2= 3.31  1976BEb (35992)1564
Method: Ag electrode. By calorimetry, DH(K1)=-17.2 kJ mol-1,
DS(K1)=-25.8 J K-1 mol-1, DH(B2)=-39.3, DS(B2)=-68.49.
**************************************************************************
C5H4NCl                 L                    CAS 626-60-8  (322)
3-Chloropyridine; C5H4N.Cl
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  NaNO3  25°C 0.50M C        K1=1.37        1984ERa (36015)1565
--------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.50M U   H    K1=1.59   B2= 3.02  1976BEb (36016)1566
Method: Ag electrode. By calorimetry, DH(K1)=-16.3 kJ mol-1,
```

DS(K1)=-24.3 J K-1 mol-1, DH(B2)=-37.6, DS(B2)=-68.33.
****
C5H4NI L CAS 1120-90-7 (8297)
3-Iodoopyridine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF KNO3 25°C 0.50M U K1=1.80 B2= 4.12 1976BEb (36027)1567
Method: Ag electrode.
****
C5H4O3 HL 2-Furoic acid CAS 88-14-2 (2492)
Furan-2-carboxylic acid; C4H3O.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaNO3 25°C 0.10M U K1=1.76 1982MPc (36289)1568
****
C5H5N L Pyridine CAS 110-86-1 (31)
Pyridine, Azine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE mixed 25°C 0.10M C I K1=2.54 B2= 4.81 2002PRa (36489)1569
Ag-electrode; Medium:0.1 M NaClO4 in 0.4 mol parts DMFA in H2O
for 100% H2O K1=2.81; K2=2.26; for 100% DMFA K1=2.27; K2=2.56;

Ag+ gl alc/w 25°C 0.04M U I K1=2.40 B2= 4.40 1998SGb (36490)1570
In 100% H2O K1=1.96
Medium: 0.04 M Et4NClO4 in 0.7 mol parts EtOH in H2O;

Ag+ ISE non-aq 25°C 100% U K1=2.09 B2=5.0 1991IGc (36491)1571
Medium: propylenecarbonate

Ag+ ISE KNO3 25°C 0.10M U K1=2.20 B2=4.26 1989IGa (36492)1572

Ag+ cal oth/un 25°C dil C H K1=2.07 B2= 4.17 1989OFa (36493)1573
DH(K1)=-20.38 kJ mol-1, DH(B2)=-51.71.

Ag+ ISE non-aq 25°C 100% C H K1=1.41 B2=2.11 1987CBa (36494)1574
DH1=-13.93, DH(K2)=-27.00, DS1= -19.7, DS(K2)= -77.0.
Ag/AgCl Ion Selective Electrode used in DMSO

Ag+ ISE KNO3 25°C 0.10M C K1=2.33 B2=4.13 1985YWa (36495)1575

Ag+ ISE non-aq ? 100% U B2=3.42 1984IGa (36496)1576
Medium: CH3CN

Ag+ ISE non-aq 25°C 100% U K1=4.40 B2=9.3 1981TLa (36497)1577
B3=10.3
B4=10.7

Medium: Propylene carbonate

Ag+ EMF NaClO4 25°C 0.10M C K1=1.91 B2= 4.22 1977PMa (36498)1578
Method: Ag electrode.

Ag+ cal KNO3 25°C 0.50M U H 1974BEa (36499)1579
DH(K1)=-19.8, DH(B2)=-46.8 kJ mol-1. B values from: E M Foundou,
K Houngbossa, G Berthon et al, Acad. Sci.,274,832 (1972)

Ag+ gl KNO3 25°C 0.10M U K1=1.95 B2=3.97 1974ILa (36500)1580

Ag+ gl KNO3 25°C 0.50M U K1=2.01 B2=4.16 1972BJa (36501)1581

Ag+ ISE KNO3 25°C 0.50M U K1=2.06 B2=4.18 1972FHb (36502)1582

Ag+ ISE alc/w 25°C 42% U I K1=2.01 B2=4.08 1972MAb (36503)1583
Medium: 9-93.8% EtOH, 0.1 M
K1(9.9%)=1.87, K1(93.8%)=2.20, B2(9.9%)=4.01, B2(93.8%)=4.50

Ag+ ISE alc/w 25°C 96% U K1=2.20 B2=4.50 1972MTb (36504)1584
Medium: 96% EtOH, 0.1 M NaClO4

Ag+ cal oth/un 25°C 0.0 U H K1=2.05 B2=4.10 1968IEa (36505)1585
DH(K1)=-19.2 kJ mol-1,DS=-25.1 J K-1 mol-1; DH(B2)=-46.8,DS=-79.0

Ag+ gl KNO3 25°C 0.61M U K1=2.12 B2=4.25 1967SBd (36506)1586

Ag+ cal KNO3 25°C 0.50M U H K1=2.00 B2=4.11 1966PVa (36507)1587
DH(K1)=-20.2 kJ mol-1,DS=-29.3 J K-1 mol-1; DH(K2)=-27.2,DS=51

Ag+ EMF alc/w 25°C 75% U I B2=3.88 1965NAb (36508)1588
Medium: 75% EtOH, 0.2 M LiNO3. K1=1.96(0%),B2=4.19(0);B2=4.19(25%),3.86(50%)

Ag+ ISE mixed 25°C 90% U I B2=5.12 1965PLa (36509)1589
Medium: 90% acetone. B2=4.21(0%),4.20(10%),4.18(20%),4.16(30%),4.18(40%),
4.23(50%),4.35(60%),4.47(70%),4.72(80%)

Ag+ ISE diox/w 25°C 90% U I B2=4.80 1965PLa (36510)1590
Medium: 90% dioxan. B2=4.14(10%),4.05(30%),4.06(50%),4.30(70%). In EtOH:
B2=4.26(10%),4.25(30%),4.12(50%),3.97(70%),4.16(90%)

Ag+ cal oth/un 25°C ? U H K1=2.25 B2=4.19 1963BBc (36511)1591
DH(K1)=-19.9 kJ mol-1,DS=-23.8 J K-1 mol-1; DH(K2)=-28.3,DS=-57.7

Ag+ ISE NaClO4 ? 0.10M U K1=1.87 B2=4.09 1962NAb (36512)1592

Ag+ ISE KNO3 25°C 0.10M U K1=1.90 B2=4.25 1961CSa (36513)1593

Ag+ ISE alc/w 20°C 100% U I K1=4.68 1958PPa (36514)1594
Medium: EtOH. In MeCN K1=4.45

Ag+ gl alc/w 25°C 50% U K1=1.87 B2=3.92 1955ANc (36515)1595
Medium: 50 mol % EtOH

Ag+ gl oth/un 25°C ->0 U K1=1.97 B2=4.35 1955MBc (36516)1596

Ag+ ISE oth/un 25°C ->0 U B2=3.82 1952FYb (36517)1597

Ag+ gl oth/un 25°C 0.50M U K1=2.01 B2=4.16 1950BJa (36518)1598
Medium: 0.5 M C5H5N.HNO3

Ag+ gl KNO3 25°C 0.50M U T K1=2.04 B2=4.22 1948BVa (36519)1599
35 C: K1=1.93, K2=2.07

Ag+ sol oth/un 25°C ->0 U K1=2.00 B2=4.11 1943VCa (36520)1600

Ag+ ISE oth/un 18°C 0.02M U B2=4.44 1936BWa (36521)1601

Ag+ ISE alc/w 25°C 50% U B2=3.88 1934LAb (36522)1602
Medium: 50 mol % EtOH

Ag+ sol oth/un 16°C 0.01M U B2=4.42 1933TAa (36523)1603

Ag+ ISE oth/un 18°C 0.10M U B2=4.14 1930KOa (36524)1604

Ag+ ISE oth/un 18°C 0.25M U B2=4.40 1904EUb (36525)1605
****
C5H5NO L 3-Pyridinol CAS 109-00-2 (1475)
3-Hydroxypyridine; C5H4N.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=1.35 B2=3.49 1985KLa (36704)1606
Simultaneous measurement of Ag+ and H+
****
C5H5N2Br L CAS 1072-97-5 (2630)
5-Bromo-2-aminopyridine; C5H3N(Br)(NH2)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 50% U B2=3.78 1980BTb (36854)1607
****
C5H6N2 L 2-Aminopyridine CAS 504-29-0 (1478)
2-Aminoazine, 2-Pyridylamine; C5H4N.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=2.32 B2=4.80 1985KLa (37112)1608

Ag+ ISE alc/w 25°C 50% U I B2=5.03 1973BNd (37113)1609

Medium: 0-96% EtOH, 0.2 M LiNO3. B2(0%)=4.85, B2(50%)=5.03, B2(60%)=5.85
0-90% propanol, B2(50%)=4.96, B2(90%)=5.70. 0-90% acetone, B2(90%)=6.19

Ag+ gl KNO3 25°C 0.61M U K1=2.38 B2=4.79 1967SBd (37114)1610

Ag+ gl oth/un 25°C ? U T K1=2.17 B2=5.21 1964PCa (37115)1611
35 C: K1=2.60, K2=2.49; 45 C: K1=2.78, K2=2.73

****

C5H6N2 L 2-Methylpyrazin CAS 109-08-0 (1785)
2-Methylpyrazine, 2-Methyl-1,4-diazine; C4H3N2.CH3

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

---

Ag+ gl KNO3 25°C 0.10M U H K1=1.65 B2=2.76 1974HEa (37133)1612
DH(K1)=-20.04 and DH(B2)=-70.71 kJ mol-1.

****

C5H6N2 L 3-Aminopyridine CAS 462-08-8 (1477)
3-Aminoazine, 3-Pyridylamine; C5H4N.NH2

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

---

Ag+ ISE KNO3 25°C 0.50M U K1=2.19 B2=4.48 1985KLa (37153)1613

Ag+ ISE alc/w 25°C 50% U B2=4.62 1980BTb (37154)1614

Ag+ EMF KNO3 25°C 0.50M U H K1=2.24 B2= 4.41 1976BEb (37155)1615
Method: Ag electrode. By calorimetry, DH(K1)=-23.0 kJ mol-1,
DS(K1)=-34.1 J K-1 mol-1, DH(B2)=-51.88, DS(B2)=-89.66.

Ag+ gl KNO3 25°C 0.61M U K1=2.21 B2=4.41 1967SBd (37156)1616

Ag+ gl oth/un 25°C ? U T K1=2.17 B2=5.21 1964PCa (37157)1617
35 C: K1=2.15, K2=3.00; 45 C: K1=2.12, k2=2.95

****

C5H6N2 L CAS 5053-43-0 (1485)
3-Methyl-1,2-diazine, 3-Methylpyridazine; C4H3N2.CH3

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

---

Ag+ ISE KNO3 25°C 0.50M U K1=1.78 B2=3.26 1986KLa (37164)1618

****

C5H6N2 L 4-Aminopyridine CAS 504-24-5 (1356)
4-Aminoazine, 4-Pyridylamine; C5H4N.NH2

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

---

Ag+ ISE alc/w 25°C 50% U I B2=6.21 1973BNd (37172)1619
Medium: 0-96% EtOH, 0.2 M LiNO3: B2(0%)=6.04, B2(96%)=6.90
In 0-90%(v/v) propanol: B2(50%)=6.21; In 0-90%acetone: B2(50%)=7.64

Ag+ gl oth/un 25°C ? U T K1=2.80 B2=6.20 1964PCa (37173)1620
35 C: K1=2.76, K2=3.27; 45 C: K1=2.71, K2=3.14
****
C5H6N2 L CAS 3438-46-8 (1481)
4-Methyl-1,3-diazine; 4-Methylpyrimidine; C4H3N2.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=1.91 B2=3.24 1986KLa (37179)1621
****
C5H7NO L CAS 617-89-0 (3036)
Furfurylamine; C4H3O.CH2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 30°C 1.0M U K1=2.64 B2=5.98 1954GFb (37495)1622
****
C5H7NO2 HL Glutarimide CAS 1121-89-7 (4312)
Piperidine-2,6-dione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 45°C 50% C K1=5.37 B2= 9.73 1996MMc (37507)1623
Medium: 50% v/v MeOH/H2O, 0.10 M KNO3.
****
C5H7NO4S2 H3L CAS 36061-59-3 (1953)
Bis(carboxymethyl)dithiocarbamic acid; (HOOC.CH2)2.N.CSSH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF KNO3 22°C 1.00M U K1=14.12 1970TPb (37553)1624
****
C5H7NS L CAS 27757-85-3 (3037)
2-Thienylmethylamine (2-Thiophenemethylamine)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 30°C 1.0M U K1=2.87 B2=6.51 1954GFb (37572)1625
****
C5H7N3 L (1482)
2-Amino-4-methyl-1,3-diazine; C4H2N2(NH2)(CH3)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=2.03 B2=3.67 1986KLa (37576)1626
****
C5H8 L CAS 1489-60-7 (3598)
1-Methylcyclobutene; CH3.C4H5

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

---
Ag+ dis non-aq 30°C 100% U K1=-0.27 1962GHa (37599)1627
Medium: ethylene glycol, 1.77 M AgNO3. method: gas chromatography
****
C5H8 L CAS 1120-56-5 (3599)
Methylenecyclobutane; CH2:C4H6

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis non-aq 30°C 100% U K1=0.91 1962GHa (37601)1628
Medium: ethylene glycol, 1.77 M AgNO3. Method: gas chromatography
****
C5H8N2 L CAS 930-62-1 (3023)
2,4-Dimethylimidazole; C3H2N2(CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 1.00M U K1=3.44 B2=7.50 1969NNa (37642)1629
****
C5H8N2 L CAS 1072-62-4 (929)
2-Ethylimidazole; C3H3N2.C2H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 1.00M U K1=3.06 B2=6.89 1969NNa (37659)1630
****
C5H8N2 L Di-Me-Pyrazole CAS 67-51-6 (369)
3,5-Dimethyl-1,2-diazole; C3H2N2(CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M M K1=2.38 B2=4.83 1986BGa (37673)1631

Ag+ ISE alc/w 25°C 20% C T H K1=3.15 B2=5.53 1977PGb (37674)1632
****
C5H8N2O L (1429)
5-Amino-3,4-dimethylisoxazole; C3NO(CH3)2(NH2)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=1.63 B2=3.58 1983GWa (37684)1633
****
C5H8N4 L (4293)
1,5-Tetramethylenetetrazole;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.10M U I B2=3.07 1969DPc (37726)1634
I=0.4 M, B2=3.03
****

C5H8O2 HL CAS 591-80-0 (961)
4-Pentenoic acid; CH2:CH.CH2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	M	T H	K1=2.009		1975IPa	(37738)1635

Medium: K-acetate. DH = -17.5 kJ mol-1; DS = -20.1 J K-1 mol-1.

****

C5H8O2 HL Acetylacetone CAS 123-54-6 (164)
Pentane-2,4-dione; CH3.CO.CH2.CO.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	diox/w	30°C	75%	U		K1=9.72		1967SUa	(37873)1636

****

C5H8O2S HL CAS 102970-70-7 (4316)
(Prop-1-enylthio)ethanoic acid; CH2:CH.CH2.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.20M	U	T H	K1=3.74	B2=6.71	1971BFb	(38151)1637
							K(Ag+HL)=3.04			
							K(Ag+2HL)=4.98			
Ag+	ISE	oth/un	25°C	0.10M	U	I	K1=3.78	B2=6.76	1968PSb	(38152)1638

DH(K1)=-28.9 kJ mol-1, DH(K2)=-20
K1(0.6 C)=4.18, K1(39 C)=3.50, B2(0.6 C)=7.56, B2(39 C)=6.39

Acetate buffer. I=0.2, K(Ag+HL)=3.04

****

C5H8O3 HL CAS 16874-33-2 (2493)
Tetrahydrofuran-2-carboxylic acid; C4H7O.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	diox/w	25°C	50%	U		K1=1.86		1982MPc	(38180)1639

****

C5H8O4S H2L CAS 36303-63-6 (988)
3-Thiahexane-1,6-dioic acid; HOOC.CH2.S.CH2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	C		K1=4.40	B2=7.46	1975LPa	(38379)1640
							K(Ag+HL)=3.63			
							K(Ag+H2L)=3.41			

****

C5H8O4S2 H2L CAS 2068-24-8 (908)
2,2'-(Methylenebis(thio))bis-ethanoic acid; HOOC.CH2.S.CH2.S.CH2.COOH

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

```
Ag+        gl  NaClO4 25°C 0.50M U        K1=4.60        1981NAa (38392)1641
                                          K(AgL+H)=3.56
--------------------------------------------------------------------------
Ag+        ISE NaNO3  20°C  1.0M U        K1=4.7    B2=6.5    1944LAa (38393)1642
**************************************************************************
C5H9NO2               H2L                    CAS 69651-97-4  (1164)
2-Amino-(2-allyl)ethanoic acid; H2N.CH(CH2.CH:CH2)COOH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C        K1=4.22   B2=7.382  1975IPb (38465)1643
                                          K(Ag+HL)=1.20
**************************************************************************
C5H9NO2                HL    Proline          CAS 147-85-3  (44)
Pyrrolidine-2-carboxylic acid; C4H8N.COOH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  oth/un 30°C 0.10M U        K1=3.84   B2=6.52   1981PUa (38586)1644
--------------------------------------------------------------------------
Ag+        gl  KNO3   20°C  0.5M U        K1=2.90   B2=6.58   1974KHb (38587)1645
**************************************************************************
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
--------------------------------------------------------------------------
Ag+        gl  KNO3   20°C  0.5M U        K1=2.66   B2=6.43   1974KHb (38710)1646
**************************************************************************
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
--------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U        K1=4.10   B2=7.36   1976GPd (38999)1647
**************************************************************************
C5H9N3                  L    Histamine        CAS 51-45-6  (103)
4(5)-(2'-Aminoethyl)imidazole; C3H3N2.CH2.CH2.NH2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  KCl    25°C .058M U T      K1=4.86        1961SMa (39505)1648
K1=5.24(0 C), 4.60(45 C)
**************************************************************************
C5H10                   L    Pent-2-ene       CAS 109-68-2  (3020)
Pent-2-ene; CH3.CH2.CH:CH.CH3
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=1.80        1938WLa (39620)1649
```

****

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
Ag+	gl	KCl	22°C	0.10M	U		K1=3.5	1960REb	(39719)1650

****

C5H10N2O2S L CAS 29061-28-7 (2621)
4,5-Dimethoxyimidazolidine-2-thione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	mixed	25°C	82%	U		K1=7.51 B2=10.41 B3=11.92	1980TBa	(39726)1651

Medium: 82% v/v DMFA/H2O; 0.2 M KNO3

****

C5H10N3S L (6654)
1,4,5-Trimethyl-1,2,4-triazolium-3-thiol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	23°C	0.10M	U		K1= 7.31 B2=10.81 B3=12.84 B(Ag2L3)=22.26 B(Ag3L4)=31.94	1991TEa	(40124)1652

Data also for Ag complexes with other subst. 1,2,4-triazolium-3-thiolates

****

C5H10O L Pent-1-en-3-ol CAS 616-25-1 (3024)
1-Penten-3-ol; CH3.CH2.CH(OH)CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	0.10M	U		K1=1.15	1949KAb	(40141)1653

****

C5H10O L CAS 4675-87-0 (3025)
2-Methylbut-2-en-1-ol; CH3.CH:C(CH3)CH.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	0.10M	U		K1=0.70	1949KAb	(40143)1654

****

C5H10O HL CAS 821-09-0 (64)
Pent-4-en-1-ol; CH2:CH.CH2.CH2.CH2.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	NaClO4	25°C	1.0M	U	TIH	K1=1.962 B2=2.30	1977HSa	(40145)1655

By temp coeff., DH1=-26.3 kJ mol-1, DS1=-50 J K-1 mol-1, also in MeOH etc

****

C5H10O L (3603)
cis-1-Ethoxypropene; CH3.CH2O.CH:CH.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U	T H	K1=0.41		1968FKb	(40147)1656

Medium: ethylene glycol. K1=0.60(10 C),0.50(20 C). DH(K1)=-16.3 kJ mol-1, DS=-45 J K-1 mol-1

****

C5H10O L CAS 928-55-2 (3604)
trans-1-Ethoxypropene; CH3.CH2O.CH:CH.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U	T H	K1=-0.33		1968FKb	(40148)1657

Medium: ethylene glycol. K1=-0.17(10 C),-0.27(20 C); DH(K1)=-13.4 kJ mol-1, DS=-50.6 J K-1 mol-1

****

C5H10O2S HL CAS 20600-60-6 (4322)
(Propylthio)ethanoic acid; CH3.CH2.CH2.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U		K1=3.94	B2=7.24	1968PSb	(40235)1658

Medium: Acetate buffer, I=0.2 M, K(Ag+HL)=3.18

****

C5H11N L CAS 1003-03-8 (304)
Cyclopentylamine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KCl	25°C	0.10M	U		K1=3.61	B2=7.83	1980HAa	(40391)1659

****

C5H11N L Piperidine CAS 110-89-4 (105)
Perhydropyridine; cyclo(-CH2.CH2.CH2.NH.CH2.CH2-) C5H11N

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	C	H	K1=3.11	B2=6.05	1987CBa	(40431)1660

DH1= -26.30 kJ mol-1, DH(K2)= -34.10 DS1= -28.0, DS(K2) = -58.6.
Ag/AgCl electrode in DMSO

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	cal	KNO3	25°C	0.50M	C	H			1975EBa	(40432)1661

DH(K1)=-22.0 kJ mol-1, DS(K1)=-14 J K-1 mol-1.
DH(B2)=-50.21, DS(B2)=-45.2.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	KNO3	25°C	0.50M	U		K1=3.20	B2=6.43	1973BBa	(40433)1662

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	non-aq	?	100%	U		B2=10.97		1965MMa	(40434)1663

Medium: acetone, 0.1 M NaClO4 .

```
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  90%  U  I     B2=7.10        1963PLa (40435)1664
Medium: 90% MeOH. B2=6.68(0%),6.70(20%),6.88(40%),6.92(50%,60%),7.04(80%)
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=3.16   B2=6.61   1950BJa (40436)1665
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=3.03   B2=6.48   1948BVa (40437)1666
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  50%  U        B2=6.45        1934LAb (40438)1667
Medium: 50 mole % EtOH
********************************************************************************
C5H11NO2               HL    Valine           CAS 72-18-4  (43)
2-Amino-3-methylbutanoic acid; H2N.CH(CH(CH3)2)COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.10M C        K1=3.7         1979BCb (40653)1668
                                         K(AgL+H)=7.6
                                         K(AgHL+H)=3.3
Method: Ag electrode.
--------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C  0.5M U        K1=3.29   B2=7.31   1974KHb (40654)1669
********************************************************************************
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
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C      T K1=3.08   B2=6.27   1975IPb (40820)1670
Glass electrode also used.
********************************************************************************
C5H11NO2               HL                     CAS 660-88-8  (1845)
5-Aminopentanoic acid; H2N.CH2.CH2.CH2.CH2.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   15°C 0.50M U T      K1=3.66   B2=7.61   1970PTa (40856)1671
K1(0 C)=4.01, K1(40 C)=3.31, B2(0 C)=8.09, B2(40 C)=6.85
--------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.50M U        K1=3.5    B2=7.41   1968ALc (40857)1672
By Ag/AgCl ISE: B2=7.51
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=3.56   B2=7.35   1968TPb (40858)1673
********************************************************************************
C5H11NO2S              HL    Methionine       CAS 63-68-3  (42)
2-Amino-4-(methylthio)butanoic acid; H2N.CH(CH2.CH2.S.CH3)COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.50M C        K1=4.8    B2= 7.88  1984TSb (41046)1674
```

K(Ag+H2L)=3.11
K(Ag+HL)=3.37
K(Ag+2H2L)=5.40
K(Ag+H2L+HL)=5.88
Method: Ag electrode. K(Ag+2HL)=5.88, K(Ag+HL+L)=7.38, B(Ag2L2)=13.49, B(Ag2L)=7.46.

Ag+ ISE KNO3 25°C 0.10M C K1=5.22 1981PSb (41047)1675
B(AgHL)=12.28
B(AgH2L2)=24.2

Ag+ gl oth/un 30°C 0.10M U K1=3.29 B2=5.38 1981PUa (41048)1676

Ag+ ISE KNO3 30°C 0.10M U K1=4.9 B2=7.60 1977PUa (41049)1677

Ag+ ISE oth/un 25°C 0.60M U K1=6.45? 1967AMb (41050)1678

Ag+ gl KNO3 25°C 0.10M U K1=3.17 1964LMa (41051)1679

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C5H11NO2S HL CAS 2442-39-9 (8307)
3-(2-Aminoethyl)thiopropanoic acid;

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

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Ag+ EMF KNO3 25°C 0.50M C K1=5.1 B2= 9.61 1984TSb (41140)1680
K(Ag+H2L)=2.36
K(Ag+HL)=2.78
K(Ag+2H2L)=3.77
K(Ag+H2L+HL)=4.45
Method: Ag electrode. K(Ag+2HL)=4.64, K(Ag+HL+L)=8.17, B(Ag2L2)=13.5, B(Ag2L)=7.61.

****

C5H11NO2S H2L Penicillamine CAS 52-66-4 (350)
DL-2-Amino-3-mercapto-3-methylbutanoic acid; (CH3)2C(SH)CH(NH2)COOH

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

---

Ag+ gl KNO3 25°C 0.10M U 1964LMa (41241)1681
K(Ag+HL)=12.42

****

C5H11NO2S HL CAS 2629-59-6 (2461)
S-Ethyl-L-cysteine; H2N.CH(CH2.S.C2H5).COOH

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

---

Ag+ EMF KNO3 25°C 0.50M C K1=5.18 B2= 9.77 1984TSb (41291)1682
K(Ag+H2L)=1.57
K(Ag+HL)=2.88
K(Ag+2H2L)=3.4
K(Ag+H2L+HL)=4.49

Method: Ag electrode. K(Ag+2HL)=4.53, K(Ag+HL+L)=8.01, B(Ag2L2)=13.65, B(Ag2L)=7.46.

****

C5H11NS2 HL CAS 147-84-2 (2126)

Diethyldithiocarbamic acid; (CH3.CH2)2N.CSSH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	mixed	25°C	64%	U	I	B2=19.47	1982BGc	(41334)1683

Medium: 64% DMSO/H2O. Data for other ratios and solvents

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	alc/w	25°C	75%	U		K1=9.00	1972BSe	(41335)1684

Medium: 75% MeOH, 0.01 M KNO3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	diox/w	?	75%	U		K1=9.75	1971BSg	(41336)1685

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	diox/w	25°C	75%	U		K1=8.3	1968BSc	(41337)1686

Medium: 75% dioxan, 0.01 M KNO3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sp	non-aq	?	100%	U	M		1968SRg	(41338)1687
							K(AgHA+HL=AgL+H2A)=2.58		

Medium: CCl4. H2A=dithizone.

****

C5H12N2S L CAS 2782-91-4 (6088)

N,N,N',N'-Tetramethylthiourea; (CH3)2N.CS.N(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	alc/w	25°C	100%	M	T H	K1=4.49 B2=9.08	1994MGa	(41625)1688
							B3=12.37		

Medium: EtOH, 0-40 C. DH(K1)=-30 kJ mol-1, DS=-17 J K-1 mol-1; DH(B2)=-26, DS=+85; DH(B3)=-39, DS=+106. Method: Ag elect. Other alkyl-thoiureas also

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	23°C	0.10M	U		K1= 5.63 B2=10.16	1991TEa	(41626)1689
							B3=12.93		

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	alc/w	25°C	100%	M	T H	K1=6.39 B2=9.70	1990MMf	(41627)1690
							B3=12.58		

Medium: MeOH, 0-40 C. DH(K1)=-33.8 kJ mol-1, DS=+9 J K-1 mol-1; DH(B2)=-32.4 DS=+77; DH(B3)=-32, DS=+133. Method: Ag electrode

****

C5H12O3S HL (4330)

Monothiopentaerythritol; (HS.CH2)C(CH2.OH)3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	20°C	0.10M	U		K1=13	1971TSa	(41649)1691
							K(10Ag+9L=Ag10L9)=175.4		
							K(2Ag+L)=19.0		

****

C5H12O3S4 H3L CAS 19872-38-9 (4331)
2,3-Dimercaptopropylthioethanesulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sp	oth/un	?	?	U				1971EPd	(41651)1692
							K(2Ag+L)=35.5			

****
C5H12O4S3 H3L CAS 19872-36-7 (4332)
2,3-Dimercaptopropanoxyethanesulfonic acid; HS.CH2.CH(SH).CH2.O.CH2.CH2.HSO3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sp	oth/un	?	?	U				1971EPd	(41665)1693
							B(Ag2L)=36.7			

****
C5H12O5S4 H3L CAS 35617-14-2 (4333)
2,3-Dimercaptopropanesulfonethanesulfonic acid; HS.CH2.CH(SH).CH2.SO2.CH2CH2.HSO3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sp	oth/un	?	?	U				1971EPd	(41696)1694
							B(Ag2L)=36.6			

****
C5H13N L 1-Pentylamine CAS 110-58-7 (3613)
1-Pentylamine; CH3.CH2.CH2.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	cal	R4N.X	25°C	0.05M	C	H			2002BSd	(41709)1695

Medium: propylene carbonate, 0.05 M Et4NClO4. DH(K1)=-54.5.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	none	25°C	0.00	M		K1=3.69	B2=7.76	1971HTa	(41710)1696
Ag+	gl	KNO3	20°C	0.50M	U		K1=3.55	B2=7.70	1968ALc	(41711)1697

By Ag/AgCl ISE: B2=7.67

****
C5H13N L CAS 616-24-0 (5502)
3-Aminopentane CH3.CH2.CH(NH2).CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	oth/un	25°C	0.50M	U		K1=3.53	B2=7.73	1983HNa	(41715)1698

Medium: 0.1 M LHNO3

****
C5H13N L CAS 616-39-7 (5641)
N,N-Diethylmethylamine; (C2H5)2N.CH3

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

```
Ag+        gl  KNO3   25°C 1.00M U        K1=2.175  B2=3.86   1993GYa (41718)1699
**************************************************************************
C5H13NO                L                      CAS 2508-29-4  (3627)
5-Amino-1-pentanol; H2N(CH2)5.OH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.50M U        K1=3.42   B2=7.55   1968ALc (41726)1700
By Ag/AgCl ISE: B2=7.55
**************************************************************************
C5H13NO2               L                      CAS 35152-18-2  (4334)
1,1'-Imino-2-ethanol-3-propanol; HO.CH2.CH2.NH.CH2.CH2.CH2.OH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=2.32   B2=5.34   1972PEa (41730)1701
**************************************************************************
C5H13NO2               L                      CAS 105-59-9  (1070)
N-Methyldiethanolamine; CH3.N(CH2.CH2.OH)2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  50%  U        K1=2.77   B2=5.21   1955ANc (41742)1702
Medium: 50 mole % EtOH
**************************************************************************
C5H13NO3S             HL                     CAS 37043-68-8  (4341)
5-Aminopentanesulfonic acid; H2N.CH2.CH2.CH2.CH2.CH2.SO3H
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=3.49   B2=7.40   1972PTa (41745)1703
**************************************************************************
C5H13NS                L                        (1217)
1-Amino-3-thiahexane; H2N.CH2.CH2.S.CH2.CH2.CH3
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=5.29   B2=9.70   1977TGa (41773)1704
                                        B(2Ag+L)=7.40
                                        B(2Ag+2L)=13.59
                                        B(Ag+HL)=2.95
                                        B(Ag+L+HL)=8.08
B(Ag+2HL)=4.61
--------------------------------------------------------------------------
Ag+        cal KNO3   25°C 0.50M C   H                  1977TGc (41774)1705
DH(Ag+HL)=-31.4 kJ mol-1, DH(Ag+2HL)=-59.0, DH(Ag+HL+L)=-77.8,
DH(B2)=-84.5, DH(2Ag+2L)=-130, DH(2Ag+L)=-72.8.
**************************************************************************
C5H13NS                L                      CAS 93243-37-9  (1221)
1-Dimethylamino-3-thiabutane; (CH3)2N.CH2.CH2.S.CH3
```

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.50M U K1=4.30 B2=8.42 1977TGa (41777)1706
B(2Ag+L)=5.96
B(2Ag+2L)=11.37
B(Ag+HL)=2.52
B(Ag+HL+L)=6.68
B(Ag+2HL)=3.84

Ag+ cal KNO3 25°C 0.50M C H 1977TGc (41778)1707
DH(Ag+HL)=-26.4 kJ mol-1, DH(Ag+2HL)=-52.34, DH(Ag+HL+L)=-66.1,
DH(B2)=-69.5, DH(2Ag+2L)=-90.4, DH(2Ag+L)=-61.9.
****
C5H13NS HL (5870)
3-(Dimethylamino)-1-propanethiol; (Me)2N.CH2.CH2.CH2.SH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 10% C 1990GVa (41781)1708
B(6,3)=61.4
B(6,4)=77.35
B(8,6)=113.85
B(7,6)=109.10
B(10,9)=162.64, B(12,12)=209.22, B(5,6)=91.31, B(4,6)=77.41, B(1,3)=21.35.
In 10% v/v methanol/H2O, 0.10 M NaNO3. B(p,q): pAg+qHL=(Ag)p(HL)q
****
C5H13OPS2 HL CAS 1000-64-2 (4339)
O-Butyl hydrogen-P-methylphosphonodithioate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 90% U B2=16.14 1971TCa (41808)1709
Medium: 90% EtOH, 0.3 M NaClO4
****
C5H14N2 L CAS 462-94-2 (359)
1,5-Diaminopentane; H2N.(CH2)5.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 1.0M C K1=6.22 B2= 8.33 1999GYa (41860)1710
K(Ag+HL)=3.33
K(Ag+2HL)=7.58
K(AgL2+2H)=21.69
B(Ag2L2)=15.05
Additional method: Ag/Ag2S electrode. B(AgHL)=14.55, B(AgHL2)=20.08,
B(AgH2L2)=30.02, B(Ag2HL2)=23.58.

Ag+ ISE alc/w 25°C 100% U H K1=6.74 1985BUb (41861)1711
Medium: MeOH, 0.05M Et4NClO4. DH=-58.4 kJ mol-1

```
---------------------------------------------------------------------------
Ag+        gl  NaNO3  20°C 0.10M U        K1=5.95        1952SMa (41862)1712
                                          K(Ag+HL)=3
***************************************************************************
C5H14N2                 L                     CAS 7328-91-8  (3029)
2,2-Dimethyl-1,3-diaminopropane; H2N.CH2.C(CH3)2.CH2.NH2
---------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
---------------------------------------------------------------------------
Ag+        gl  KNO3   30°C  1.0M U        K1=4.66        1952HAa (41873)1713
***************************************************************************
C5H14N2                 L                     CAS 111-33-1  (938)
2,6-Diazaheptane, N,N'-Dimethyl-1,3-diaminopropane; CH3.NH.CH2.CH2.CH2.NH.CH3
---------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
---------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 1.00M C        B2=6.27        1994GYa (41881)1714
                                          B(AgHL)=13.13
                                          B(AgH2L2)=26.37
                                          B(Ag2L2)=12.12
***************************************************************************
C5H14N2                                     (4303)
N,N,N'-Trimethyl-1,2-diaminoethane;                                      L
---------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
---------------------------------------------------------------------------
Ag+        gl  KNO3   25°C  1.0M C        K1=3.22   B2=6.14   1994GYb (41885)1715
                                          B(AgHL)=11.07
                                          B(Ag2L2)=8.29
***************************************************************************
C5H14N2                 L                     (4302)
N,N-Dimethyl-1,3-diaminopropane; (CH3)2N.(CH2)3.NH2
---------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
---------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C   H    K1=3.95   B2= 7.49  2002CNa (41891)1716
Method: Ag electrode. Medium: DMSO, 0.10 M Et4NClO4. DH(K1)=-40.9
kJ mol-1, DS(K1)=-62 J K-1 mol-1; DH(B2)=-73.4, DS(B2)=-103.
---------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 1.00M C        K1=3.55   B2=7.11   1994GYa (41892)1717
                                          B(AgHL)=12.81
                                          B(AgH2L2)=25.86
                                          B(AgHL2)=16.70
                                          B(Ag2L2)=11.02
***************************************************************************
C5H14N2S                L                     CAS 56973-49-0  (1855)
1,6-Diamino-3-thiahexane;H2N.CH2.CH2.S.CH2.CH2.CH2.NH2
---------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
---------------------------------------------------------------------------
```

```
Ag+        gl  KNO3   25°C 0.50M C        B2=9.83        1984SGe (41925)1718
                                          K(Ag+H2L)=2.30
                                          K(Ag+2H2L)=3.17
                                          K(Ag+HL)=4.52
                                          K(2Ag+2HL)=12.10
Additional method: Ag electrode. K(2Ag+HL+L)=14.87, B(Ag2L2)=16.75,
K(Ag+H2L+HL)=6.9, K(Ag+2HL)=8.72, K(Ag+HL+L)=9.50, B(Ag2L)=10.0.
--------------------------------------------------------------------------------
Ag+        cal KNO3   25°C 0.50M C   H                   1984STc (41926)1719
DH(Ag+H2L)=-28 kJ mol-1, DS(Ag+H2L)=-50 J K-1 mol-1; DH(Ag+2H2L)=-56,
DS(Ag+2H2L)=-127; DH(2Ag+2L)=-139.2, DS=-146; DH(B2)=-79.6, DS(B2)=-79.
********************************************************************************
C5H15N3                 L                       CAS 34066-95-0  (1066)
1,4,7-Triazaoctane; H2N.CH2.CH2.NH.CH2.CH2.NH.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE NaNO3  25°C 1.30M C        B2=7.87        1984YMa (41978)1720
                                          B(AgH2L)=20.56, B(AgHL)=13.77
                                          B(AgH2L2)=27.33,B(AgHL2)=17.75
                                          B(Ag2H2L2)=30.04,B(Ag2L2)=14.4
                                          B(Ag2HL2)=22.33,B(Ag3L2)=16.74
B(AgH-1L)=-6.10.   Measured using glass and Ag electrodes
********************************************************************************
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
--------------------------------------------------------------------------------
Ag+        ISE none   25°C  dil  C    M   K1=0.45        2004KUa (42081)1721
                                          K(AgA+L)=2.75
                                          K(AgB+L)=3.20
                                          K(AgC+L)=2.28
                                          K(AgD+L)=2.20
Method: Ag ion-selective electrode; self medium. A is 15-crown-5 ether,
B is benzo-15-crown-5, C is 18-crown-6, D is benzo-18-crown-6 ether.
--------------------------------------------------------------------------------
Ag+        con mixed  25°C  20%  C        K1=2.38        1994SSb (42082)1722
Medium:20% w/w propylene carbonate/ethylene carbonate.
********************************************************************************
C6H4Br2                 L    p-Dibromobenzen  CAS 106-37-6  (3056)
1,4-Dibromobenzene; Br.C6H4.Br
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C    ?  U        K1=-0.21  B2=-0.81  1950AKa (42166)1723
********************************************************************************
C6H4Cl2                 L                       CAS 106-46-7  (2405)
1,4-Dichlorobenzene; Cl.C6H4.Cl
--------------------------------------------------------------------------------
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sp	non-aq	25°C	100%	U		K1=-0.377	1991PZa (42167)	1724
Ag+	sol	oth/un	25°C	?	U		K1=-0.46	1950AKa (42168)	1725

C6H4I2 L o-Diiodobenzene CAS 615-42-9 (3058)
1,2-Di-iodobenzene; I.C6H4.I

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	25°C	?	U		K1=0.76 B2=1.22	1951AKb (42170)	1726

C6H4I2 L m-Diiodobenzene CAS 626-00-6 (3057)
1,3-Di-iodobenzene; I.C6H4.I

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	25°C	?	U		K1=1.22 B2=1.40	1951AKb (42171)	1727

C6H4I2 L p-Diiodobenzene CAS 624-38-4 (3059)
1,4-Di-iodobenzene; I.C6H4.I

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	25°C	?	U		K1=0.88 B2=1.25	1950AKa (42172)	1728

C6H4N2 L CAS 100-54-9 (3055)
3-Cyanopyridine (nicotinonitrile); C5H4N.CN

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	->0	U		B2=2.90	1955MBc (42184)	1729

C6H4N2 L CAS 100-48-1 (321)
4-Cyanopyridine; C5H4N.CN

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	NaNO3	25°C	0.50M	C		K1=0.81	1984ERa (42190)	1730
Ag+	ISE	oth/un	25°C	->0	U		B2=3.08	1955MBc (42191)	1731

C6H5Br L Bromobenzene CAS 108-86-1 (3061)
Bromobenzene; C6H5.Br

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	25°C	?	U		K1=-0.01 B2=-0.93	1950AKa (42334)	1732

C6H5Cl L Chlorobenzene CAS 108-90-7 (3060)
Chlorobenzene; C6H5.Cl

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C ? U K1=-0.16 B2=-2.11 1950AKa (42335)1733
****
C6H5F L Fluorobenzene CAS 462-06-6 (3063)
Fluorobenzene; C6H5.F

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C ? U K1=-0.34 B2=-0.96 1950AKa (42339)1734
****
C6H5I L Iodobenzene CAS 591-50-4 (3062)
Iodobenzene; C6H5.I

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C ? U K1=0.70 B2=0.61 1950AKa (42340)1735
****
C6H5NO2 HL Picolinic acid CAS 98-98-6 (391)
2-Pyridine-carboxylic acid; C5H4N.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% U K1=1.56 B2=2.73 1994IGa (42466)1736
Medium: MeCN, 0.1 M Et4NClO4. Method: Ag electrode

Ag+ gl KNO3 25°C 0.10M U K1=3.51 B2=6.10 1993IGa (42467)1737

Ag+ EMF KNO3 25°C 0.10M C K1=3.5 1979BCb (42468)1738
K(AgL+H)=4.1
Method: Ag electrode.

Ag+ gl NaNO3 20°C 0.10M U K1=3.40 B2=5.9 1960ANb (42469)1739

Ag+ gl oth/un 25°C 0.0 U K1=3.24 1958LUa (42470)1740
****
C6H5NO2 HL Nicotinic acid CAS 59-67-6 (419)
3-Pyridine-carboxylic acid; C5H4N.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 2.00M C K1=2.39 B2=4.14 1981LZa (42657)1741
****
C6H5NO2 L Nitrobenzene CAS 98-95-3 (3085)
Nitrobenzene; C6H5.NO2

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

```
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C    ?  U        K1=-0.72       1950AKa (42700)1742
********************************************************************************
C6H6                    L    Benzene          CAS 71-43-2  (2143)
Benzene, cyclohexatriene;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sp  non-aq 20°C 100%  U T H    K1=1.66        1964TJa (43162)1743
Medium: benzene,ClO4-.    K1=1.04(1.4C); DH(K1)=16.7 kJ mol-1
--------------------------------------------------------------------------------
Ag+        sol alc/w  25°C  50%  U T H    K1=0.04        1956OAa (43163)1744
Medium: 50% MeOH. DH(K1)=-12.0 kJ mol-1, DS=-39.3. 1.6 C: K1=0.22
--------------------------------------------------------------------------------
Ag+        sol oth/un  5°C    ?  U        K1=0.38   B2=1.05   1949AKa (43164)1745
********************************************************************************
C6H6NBr                 L    o-Bromoaniline   CAS 615-36-1  (3091)
2-Bromoaniline (1-amino-2-bromobenzene); Br.C6H4.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  59%  U        B2=2.8         1952FYa (43171)1746
********************************************************************************
C6H6NBr                 L    3-Bromoaniline   CAS 591-19-5  (758)
3-Bromoaniline; H2N.C6H4.Br
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  59%  U        B2=2.8         1952FYa (43175)1747
********************************************************************************
C6H6NBr                 L    4-Bromoaniline   CAS 106-40-1  (757)
4-Bromoaniline; H2N.C6H4.Br
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  59%  U        B2=2.75        1952FYa (43183)1748
********************************************************************************
C6H6NCl                 L    o-Chloroaniline  CAS 95-51-2  (3088)
2-Chloroaniline (1-amino-2-chlorobenzene); Cl.C6H4.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        B2=1.71        1960ALa (43197)1749
Medium: EtOH
--------------------------------------------------------------------------------
Ag+        oth alc/w  25°C  59%  U        B2=2.50        1952FYa (43198)1750
Medium :59% w/w EtOH
********************************************************************************
C6H6NCl                 L    m-Chloroaniline  CAS 108-42-9  (3089)
3-Chloroaniline; Cl.C6H4.NH2
```

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        B2=2.13        1960ALa (43200)1751
Medium: EtOH
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  59%  U        B2=2.55        1952FYa (43201)1752
********************************************************************************
C6H6NCl                 L    p-Chloroaniline  CAS 106-47-8  (3090)
4-Chloroaminobenzene; Cl.C6H4.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        B2=2.65        1960ALa (43213)1753
Medium: EtOH
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  59%  U        B2=2.5         1952FYa (43214)1754
********************************************************************************
C6H6NI                  L    4-Iodoaniline    CAS 540-37-4  (3689)
4-Iodoaniline; I.C6H4.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        B2=2.50        1960ALa (43216)1755
Medium: EtOH
********************************************************************************
C6H6N2O                 L    Isonicotinamide  CAS 1453-82-3  (1949)
Isonicotinamide, Pyridine-4-carboxylic acid amide; C5H4N.CO.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U        K1=3.01        1955MBc (43257)1756
********************************************************************************
C6H6N2O                 L    Nicotinamide     CAS 98-92-0  (1473)
Pyridine-3-carboxylic acid amide, Vitamin PP, C5H4N.CO.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=1.67   B2=3.06   1985KLa (43334)1757
Simultaneous measurement of Ag+ and H+
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  50%  U        B2=3.11        1980BTb (43335)1758
--------------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U        K1=3.22        1955MBc (43336)1759
********************************************************************************
C6H6N2O2                L    o-Nitroaniline   CAS 88-74-4  (463)
2-Nitroaminobenzene; H2N.C6H4.NO2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
```

Ag+ oth alc/w 25°C 59% U B2=1.9 1952FYa (43360)1760
****
C6H6N2O2 L m-Nitroaniline CAS 99-09-2 (464)
3-Nitroaminobenzene; H2N.C6H4.NO2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% U B2=1.88 1960ALa (43383)1761
Medium: EtOH

Ag+ ISE alc/w 25°C 50% U B2=1.7 1954LAa (43384)1762
Medium: EtOH, 50 mole%

Ag+ oth alc/w 25°C 50% U B2=1.7 1952FYa (43385)1763
****
C6H6N2O2 L p-Nitroaniline CAS 100-01-6 (465)
4-Nitroaminobenzene; H2N.C6H4.NO2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% U B2=1.55 1960ALa (43400)1764
Medium: EtOH

Ag+ ISE alc/w 25°C 50% U B2=1.6 1954LAa (43401)1765
Medium: 50 mol % EtOH

Ag+ oth alc/w 25°C 50% U B2=1.7 1952FYa (43402)1766
Medium: 50 mol % EtOH
****
C6H6O HL Phenol CAS 108-95-2 (457)
Hydroxybenzene, phenol; C6H5.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis KNO3 25°C 1.0M U K1=0.34 1938WLa (43532)1767
****
C6H6O3S HL CAS 98-11-3 (3087)
Benzenesulfonic acid; C6H5.SO3H

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE NaClO4 25°C 1.0M U K1=-0.04 1958ACb (44132)1768
****
C6H7N L Picoline CAS 109-06-8 (320)
2-Methylpyridine; C5H4N.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=2.33 B2=4.66 1972FHb (44580)1769

Ag+ ISE alc/w 25°C 96% U K1=2.45 B2=4.93 1972MTb (44581)1770
Medium: 96% EtOH, 0.1 M NaClO4

Ag+ gl KNO3 25°C 0.61M U K1=2.36 B2=4.71 1967SBd (44582)1771

Ag+ ISE mixed 25°C 90% U I B2=5.48 1965PLa (44583)1772
Medium:90% acetone. B2=4.61(0%),4.58(10%),4.55(20%),4.54(30%),4.55(40%),
4.60(50%),4.67(60%),4.78(70%),5.00(80%)

Ag+ ISE diox/w 25°C 90% U I B2=5.09 1965PLa (44584)1773
Medium: 90% dioxan. B2=4.53(10%),4.48(20%),4.44(30%),4.43(40%),4.46(50%,4.52
(60%),4.64(70%),4.82(80%). In EtOH:B2=4.69(10%),4.36(50%),4.49(90%)

Ag+ gl KNO3 25°C 0.50M U K1=2.27 B2=4.68 1964PCa (44585)1774
dlogB2/dt=-0.002

Ag+ sp alc/w 20°C 100% U I B2=4.68 1958PPa (44586)1775
Medium: EtOH. In MeCN: B2=4.45
****
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
---
Ag+ ISE KNO3 25°C 0.50M U K1=2.25 B2=4.48 1972FHb (44665)1776

Ag+ ISE alc/w 25°C 96% U K1=2.40 B2=4.82 1972MTc (44666)1777
Medium: 96% EtOH, 0.1 M NaClO4

Ag+ gl KNO3 25°C 0.61M U K1=2.15 B2=4.44 1967SBd (44667)1778

Ag+ ISE alc/w 25°C 90% U I B2=4.34 1965PMa (44668)1779
Medium:0-90% EtOH. B2=4.36(0%),4.41(10%),4.40(20%),4.35(30%),4.27(40%),
4.19(50%),4.14(60%),4.17(70%),4.24(80%)

Ag+ sp alc/w 20°C 100% U I B2=5.23 1958PPa (44669)1780
Medium: EtOH. In MeCN: B2=4.99

Ag+ gl oth/un 25°C ->0 U K1=2.00 B2=4.35 1955MBc (44670)1781
****
C6H7N L gamma-Picoline CAS 108-89-4 (325)
4-Methylpyridine; C5H4N.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE NaNO3 25°C 50% U I B2=4.53 1973BNd (44779)1782
Medium: 0-96% (v/v) EtOH, 0.2 M LiNO3. B2(0%)=4.75, B2(96%)=4.74
In 0.2 LiNO3, 0-90% acetone, B2(25%)=4.69, B2(75%)=4.84, B2(90%)=4.95

Ag+ ISE NaNO3 25°C 50% U I B2=4.36 1973BNd (44780)1783

Medium: 0-90% (v/v) PrOH, 0.2 M LiNO3. B2(0%)=4.75, B2(90%)=4.58

Ag+ ISE KNO3 25°C 0.50M U K1=2.18 B2=4.64 1972FHb (44781)1784

Ag+ ISE alc/w 25°C 96% U K1=2.45 B2=4.91 1972MTb (44782)1785

Medium: 96% EtOH, 0.1 M NaClO4

Ag+ gl KNO3 25°C 0.61M U K1=2.21 B2=4.70 1967SBd (44783)1786

Ag+ ISE alc/w 25°C 90% U I B2=4.41 1965PMa (44784)1787

Medium:90% EtOH. B2=4.49(0%),4.57(10%),4.53(20%),4.46(30%),4.37(40%), 4.29(50%),4.24(60%),4.25(70%),4.31(80%)

Ag+ sp alc/w 20°C 100% U I B2=5.05 1958PPa (44785)1788

Medium: EtOH. In MeCN: B2=4.79

Ag+ gl oth/un 25°C ->0 U K1=2.03 B2=4.39 1955MBc (44786)1789

Ag+ gl KNO3 25°C 0.50M U K1=2.24 B2=4.70 1948BVa (44787)1790

dlogB2/dt=0.020

****

C6H7N L Aniline CAS 62-53-3 (583)

Aminobenzene, aniline; C6H5.NH2

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

---

Ag+ ISE alc/w 25°C 100% U B2=3.07 1960ALa (44857)1791

B3=3.53

Medium: EtOH

Ag+ gl alc/w 25°C 50% U K1=1.38 B2=2.88 1955ANc (44858)1792

Medium: 50 mole % EtOH

Ag+ gl alc/w ? 59% U B2=3.0 1952FYa (44859)1793

Medium: 59% w/w EtOH

Ag+ dis KNO3 25°C 1.0M U K1=1.44 1952GOa (44860)1794

Ag+ ISE oth/un 17°C 0.20M U B2=3.47 1936BWa (44861)1795

Ag+ ISE alc/w 25°C 50% U B2=3.17 1934LAb (44862)1796

Medium: 50 mole % EtOH

Ag+ ISE oth/un 20°C 0.10M U B2=3.23 1924PAa (44863)1797

****

C6H7NO L CAS 586-98-1 (3094)

2-Hydroxymethylpyridine (2-pyridylmethanol); C5H4N.CH2.OH

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

---

```
Ag+        gl  KNO3   25°C 0.61M U        K1=2.14   B2=4.37   1967SBd (44961)1798
**************************************************************************
C6H7NO                  L    Pyridylcarbinol  CAS 100-55-0  (2036)
3-(Hydroxymethyl)azine; C5H4N.CH2OH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.61M U        K1=2.01   B2=4.09   1967SBd (44981)1799
**************************************************************************
C6H7NO                  L                    CAS 7295-76-3  (3095)
3-Methoxypyridine; C5H4N.OCH3
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U        K1=1.58   B2=3.67   1955MBc (44991)1800
**************************************************************************
C6H7NO                  L                    CAS 586-95-8  (1476)
4-(Hydroxymethyl)pyridine; C5H4N.CH2OH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=1.816  B2=3.887  1987KLa (45004)1801
--------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=2.20   B2=4.26   1985KLa (45005)1802
Simultaneous measurement of Ag+ and H+
--------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.61M U        K1=2.15   B2=4.23   1967SBd (45006)1803
**************************************************************************
C6H7NO                  L                    CAS 620-08-6  (3096)
4-Methoxypyridine; C5H4N.OCH3
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE none   25°C  0.0  U        K1=2.28   B2=4.44   1955MBc (45015)1804
**************************************************************************
C6H7NO3S               HL    Sulfanilic       CAS 121-57-3  (2865)
4-Aminobenzenesulfonic acid; H2N.C6H4.SO3H
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  1.0M U        K1=1.03   B2=1.67   1958ACb (45066)1805
                                         K3=0.40
                                         K4=-0.1
--------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 0.10M U        K1=1.14   B2=2.09   1958ACb (45067)1806
**************************************************************************
C6H7NO3S               HL    Metanilic acid     (3121)
Aniline-3-sulfonic acid; H2N.C6H4.SO3H
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

```
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C  1.0M U        K1=1.23   B2=2.13   1958ACb (45068)1807
                                         K3=0.18
                                         K4=0.11
********************************************************************************
C6H7N3O                 L    Isonicotinic hy  CAS 54-85-3  (1267)
Pyridine-4-carboxylic acid hydrazide; C5H4N.CO.NH.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  var  U  I     K1=7.67        1986BBa (45122)1808
In 0.07 mol EtOH/H2O, 0.1 M NaNO3(NaClO4). Ag-electrode
In 0.79 mol K1=6.41; In 0.79 mol DMFA/H2O: K1=5.61. Data also for DMSO
********************************************************************************
C6H8N2                  L                    CAS 123-32-0  (2532)
2,5-Dimethylpyrazine, 2,5-Dimethyl-1,4-diazine; C4H2N2(CH3)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U   H    K1=1.96   B2=3.13   1974HEa (45284)1809
DH(K1)=-21.67 and DH(B2)=-39.96 kJ mol-1.
********************************************************************************
C6H8N2                  L                    CAS 108-50-9  (2531)
2,6-Dimethylpyrazine, 2,6-Dimethyl-1,4-diazine; C4H2N2(CH3)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U   H    K1=1.95   B2=3.46   1974HEa (45286)1810
DH(K1)=-20.92 and DH(B2)=-31.84 kJ mol-1.
********************************************************************************
C6H8N2                  L    2-Picolylamine   CAS 29722-36-9  (502)
2-(Aminomethyl)pyridine; C5H4N.CH2NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C  0.0  U        K1=3.588  B2=7.174  1974GEa (45333)1811
                                         B(Ag2L)=5.37
                                         B(Ag2L2)=11.223
                                         B(AgHL)=9.982
--------------------------------------------------------------------------------
Ag+        EMF NaNO3  20°C 0.10M U        K1=4.11        1971ANa (45334)1812
********************************************************************************
C6H8N2                  L                    CAS 1603-40-3  (3648)
2-Amino-3-methylpyridine  (2-Amino-3-picoline)
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.61M U        K1=2.42   B2=4.85   1967SBd (45363)1813
********************************************************************************
C6H8N2                  L                    CAS 695-34-1  (1501)
```

2-Amino-4-methylpyridine; H2N.C5H4N.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	U		K1=2.47 B2=4.931	1987KLa (45365)	1814

C6H8N2 L CAS 1603-41-4 (1500)

2-Amino-5-methylpyridine; H2N.C5H4N.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	U		K1=2.04 B2=4.726	1987KLa (45367)	1815

C6H8N2 L CAS 2851-95-8 (4349)

2-Methyl-1-vinylimidazole;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	1.00M	U		K1=3.48 B2=7.01	1969NNa (45373)	1816

C6H8O4 H2L CAS 2583-25-7 (958)

2-Allylpropanedioic acid; HOOC.CH(CH2.CH:CH2).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	M		K1=2.086	1975IPa (45461)	1817

Medium: CH3COOK

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
Ag+	ISE	KNO3	25°C	0.10M	U		K1=3.66	1964NMc (45611)	1818

C6H8O6S H3L CAS 99-68-3 (3692)

(Carboxymethylthio)butanedioic acid; HOOC.CH(S.CH2.COOH).CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	20°C	0.10M	U		K1=3.52	1977CAd (45682)	1819

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
Ag+	sol	oth/un	20°C	0.0	U	H	B(Ag2L)=7.1 B(Ag3L2)=9.9	1959DMb (45923)	1820

DH(Ag2L)=-66.1 kJ mol-1, DS=-89

Ag+ sol oth/un 25°C 0.0 U 1958PSa (45924)1821
Kso=-12.2

****

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
Ag+	gl	KNO3	25°C	1.00M	C		K1=4.29	1992ANa (46600)	1822
Ag+	ISE	NaClO4	25°C	1.00M	U	I	K1=4.11	1989MIa (46601)	1823
Ag+	ISE	KNO3	25°C	0.10M	C	H	K1=4.67	1981SCa (46602)	1824

By calorimetry: DH(K1)=-26.2 kJ mol-1, DS=1.2

Ag+	dis	NaClO4	20°C	0.10M	U	T	K1=5.16	1963STc (46603)	1825

****

C6H9N3 L (1483)
2-Amino-4,6-dimethyl-1,3-diazine; C4HN2(NH2)(CH3)2

Ag+	ISE	KNO3	25°C	0.50M	U		K1=2.26 B2=6.19	1986KLa (47142)	1826

****

C6H9N3O2 HL Histidine CAS 71-00-1 (1)
2-Amino-3-(4'-imidazolyl)propanoic acid; H2N.CH(CH2.C3H3N2)COOH

Ag+	gl	KNO3	25°C	0.5M	U		K1=2.30 B2= 3.05	2002LKa (47455)	1827
							K(AgL+H)=6.93		
Ag+	gl	oth/un	30°C	0.10M	U		K1=5.42 B2=8.44	1981PUa (47456)	1828
Ag+	gl	KCl	25°C	.058M	U	T	K1=6.45	1961SMa (47457)	1829

K1=8.50(0 C), 4.60(45 C)

Ag+	ISE	oth/un	?	.162M	U		K1=7.37 B2=16.27	1953VAa (47458)	1830

At I=0.01 M, by spectrophotometry, B(Ag2L)=2.12

****

C6H10 L CAS 693-89-0 (3641)
1-Methylcyclopentene; C5H7.CH3

Ag+	dis	non-aq	30°C	100%	U		K1=0.46	1962GHa (47663)	1831

Medium: ethylene glycol, 1.77 M AgNO3. Method: gas chromatography

****

C6H10 L CAS 1120-62-3 (3642)
3-Methylcyclopentene; C5H7.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U		K1=1.08	1962GHa	(47664)1832

Medium: ethylene glycol, 1.77 M AgNO3. Method: gas chromatography

****

C6H10 L CAS 1759-81-5 (3643)
4-Methylcyclopentene; C5H7.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U		K1=0.74	1962GHa	(47665)1833

Medium: ethylene glycol, 1.77 M AgNO3. Method: gas chromatography

****

C6H10 L Cyclohexene CAS 110-83-8 (3054)
Cyclohexene; C6H10

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	nmr	non-aq	30°C	100%	U		K1=0.58	1973DBa	(47666)1834

Medium: CH3CN

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	KNO3	0°C	1.0M	U		K1=2.28	1938WLa	(47667)1835

****

C6H10 L CAS 1528-30-9 (3644)
Methylenecyclopentane; CH2:C5H8

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U		K1=0.78	1962GHa	(47670)1836

Medium: ethylene glycol, 1.77 M AgNO3. Method: gas chromatography

****

C6H10N2 L CAS 931-36-2 (1419)
2-Ethyl-4-methyl-1,3-diazole; C3H2N2(CH3)(C2H5)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	1.00M	U		K1=3.64 B2=7.74	1969NNa	(47682)1837

****

C6H10N2 L Tri-Me-Pyrazole CAS 822-90-2 (370)
3,4,5-Trimethyl-1,2-diazole; C4HN2(CH3)3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	25°C	20%	C T H		K1=3.86 B2=5.90	1977PGb	(47688)1838

****

C6H10N2O3S H2L CAS 60197-98-0 (1858)
2-(4-Sulfonyl)-pyrrylmethyl-methylamine; HO3S.C4H3N.CH2.NH.CH3

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 1.00M C                        1978SAa (47711)1839
                                      K(Ag+HL)=2.6
                                      K(AgHL+HL)=2.96
Various assumptions and stability constants
********************************************************************************
C6H10N2O4            H2L                    CAS 96705-91-8  (3103)
Piperazine-2,5-dicarboxylic acid;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KCl    22°C 0.10M U        K1=3.0         1964PCa (47725)1840
********************************************************************************
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
--------------------------------------------------------------------------------
Ag+        gl  KCl    22°C 0.10M U        K1=4.4         1964PCa (47743)1841
********************************************************************************
C6H10N4                L    Metrazole      CAS 54-95-5  (2046)
1,5-Pentamethylenetetrazole, 6,7,8,9-Tetrahydro-5H-tetrazoloazepine;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=1.51   B2=2.76   1976LWa (47876)1842
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M U  I                     1969DPc (47877)1843
                                      B(Ag+2L)=3.05
I=0.4 M, B(AgL2)=3.00
--------------------------------------------------------------------------------
Ag+        gl  non-aq 25°C 100%  U        B2=0.47        1959PHa (47878)1844
Medium: CH3CN
********************************************************************************
C6H10N4OS              L                      (6141)
2,4-Dimethyl-2,4,6,8-tetraazobicyclo(3,3,0)octa-3-one-7-thione;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  82%  U        K1=7.70   B2=10.45  1980TBa (47883)1845
                                      B3=12.11
Medium: 82% v/v DMFA/H2O; 0.2 M KNO3
********************************************************************************
C6H10O2                HL                     CAS 1577-22-6  (962)
5-Hexenoic acid; CH2:CH.CH2.CH2.CH2.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
```

Ag+ ISE oth/un 25°C 0.10M M K1=2.057 1975IPa (47951)1846
Medium: K-acetate
****
C6H10O2S HL CAS 29431-24-1 (4369)
(But-1-enylthio)ethanoic acid; CH2:CH.CH2.CH2.S.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.20M U T H K1=4.77 B2=7.02 1971BFb (47954)1847
K(Ag+HL)=4.157
K(Ag+2HL)=6.37
B(Ag2L)=6.83
0.6 C, K1=5.49, B2=9.00. 39 C, K1=4.25. DH(K1)=-46.1 kJ mol-1, DH(K2)=-80

Ag+ ISE oth/un 25°C 0.10M U I K1=4.80 B2=7.05 1968PSb (47955)1848
In acetate buffer, I=0.2 M, K(Ag+HL)=4.16
****
C6H10O2Se HL (4371)
(But-1-enylseleno)ethanoic acid; CH2:CH.CH2.CH2.Se.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.20M U T H K1=5.16 B2=7.96 1971BFb (47978)1849
K(Ag+HL)=4.75
K(Ag+2HL)=7.54
K(2Ag+HL)=6.85
B(Ag2L)=7.13
0.9 C: K1=6.04, B2=10.00. 39 C: K1=4.77. DH(K1)=-54.5 kJ mol-1, DH(K2)=-101
****
C6H10O4S H2L CAS 42715-54-8 (986)
2,2'-Thiodipropanic acid; HOOC.CH(CH3).S.CH(CH3).COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M C K1=3.81 B2=6.02 1975LPa (48123)1850
K(Ag+HL)=3.15
K(Ag+H2L)=2.74
****
C6H10O4S H2L CAS 111-17-1 (139)
3,3'-Thiodipropanoic acid; HOOC.CH2.CH2.S.CH2.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF NaClO4 25°C 3.0M U K1=4.24 B2= 7.02 1985HIa (48167)1851
B(AgHL)=8.84
B(AgH2L)=12.83
B(AgH2L2)=17.01
B(AgH4L2)=24.55
Method: Ag/AgCl electrode.

```
Ag+        gl  KNO3   25°C 0.10M C  I     K1=3.85        1975LPa (48168)1852
                                          K(Ag+HL)=3.34
                                          K(Ag+H2L)=3.22
Also by ISE in 0.2 M acetate: K2 = 2.53; K(AgH2L+H2L) = 2.41
-------------------------------------------------------------------------------
Ag+        ISE NaNO3  20°C  1.0M U        K1=2.9    B2=6.7    1944LAa (48169)1853
*******************************************************************************
C6H10O4S2             H2L                    CAS 7244-02-2  (438)
1,2-Bis(carboxymethylthio)ethane; HOOC.CH2.S.CH2.CH2.S.CH2.COOH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.50M U        K1=5.82   B2=9.55   1981NAa (48226)1854
                                          K(AgL+H)=3.80
                                          K(AgL2+H)=4.18
                                          K(AgHL2+H)=3.45
                                          K(AgH2L2+H)=2.97
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.20M U        K1=4.95        1971FPa (48227)1855
                                          B(Ag2L)=7.01
                                          K(Ag+HL)=4.45
                                          K(2Ag+HL)=6.16
                                          K(Ag+2HL)=8.24
Medium: 0.2 M acetate buffer, pH 1.5 and 5.95
-------------------------------------------------------------------------------
Ag+        ISE NaNO3  20°C  1.0M U        K1=6.5    B2=10.4   1944LAa (48228)1856
*******************************************************************************
C6H10O4S2             H2L                    CAS 1119-62-6  (3697)
3,3'-Di(thiopropanoic acid); HOOC.CH2.CH2.S.S.CH2.CH2.COOH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C  3.0M U                       1985HIa (48265)1857
                                          B(AgHL)=8.13
                                          B(AgH2L)=11.59
Method: Ag/AgCl electrode.
*******************************************************************************
C6H10O4Se             H2L                    CAS 80030-00-8  (987)
2,2'-Selenodipropanic acid; HOOC.CH(CH3).Se.CH(CH3).COOH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=4.55   B2=6.92   1975LPa (48280)1858
                                          K(Ag+HL)=3.72
                                          K(Ag+H2L)=3.01
*******************************************************************************
C6H10O4Se             H2L                    CAS 2168-88-9  (982)
3,3'-Selenodipropanic acid; HOOC.CH2.CH2.Se.CH2.CH2.COOH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

```
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C  I     K1=4.5         1975LPa (48291)1859
                                          K(Ag+HL)=4.32
                                          K(Ag+H2L)=3.96
Also by ISE in 0.2 M acetate: K2 = 2.39; K(AgH2L+H2L) = 1.57
********************************************************************************
C6H10O4Te             H2L                     CAS 2168-91-4  (983)
3,3'-Tellurodipropanoic acid; HOOC.CH2.CH2.Te.CH2.CH2.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=6.28   B2=9.18   1975LPa (48302)1860
                                          K(Ag+HL)=5.35
                                          K(Ag+H2L)=4.97
                                          K(AgH2L+H2L)=2.74
********************************************************************************
C6H11N                  L                       CAS 124-02-7  (3651)
Di-allylamine; (CH2:CH.CH2)2NH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        oth non-aq   ?  100%  U        B2=8.96        1965MMa (48494)1861
Method: coulometric titration.  Medium: acetone, 0.1 M NaClO4
********************************************************************************
C6H11NO2               HL                      CAS 16258-05-2  (1128)
2-Amino-hex-5-enoic acid; CH2:CH.CH2.CH2.CH(NH2).COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=3.81   B2=6.74   1975IPb (48510)1862
                                          K(Ag+HL)=1.42
********************************************************************************
C6H12                   L                       CAS 592-41-6  (2771)
1-Hexene; CH2:CH(CH2)3.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        oth non-aq 30°C 100%  U        K1=-0.07       1974KKb (49011)1863
Medium: N-Methylacetamide. In ethylene glycol, 40 C, K1=0.63
Method: gas chromatography.
********************************************************************************
C6H12                   L                       CAS 760-21-4  (2772)
2-Ethyl-1-butene; CH2:C(C2H5).CH2.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        oth non-aq 30°C 100%  U        K1=-0.14       1974KKb (49014)1864
Medium: N-Methylacetamide. In ethylene glycol, 40 C, K1=0.54
Method: gas chromatography.
********************************************************************************
```

C6H12 L CAS 763-29-1 (2770)
2-Methyl-1-pentene; CH2:C(CH3).CH2.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	oth	non-aq	30°C	100%	U		K1=-0.30	1974KKb	(49016)1865

Medium: N-Methylacetamide. Method: gas chromatography.

****

C6H12 L CAS 691-37-2 (2767)
4-Methyl-1-pentene; CH2:CH.CH2.CH(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	oth	non-aq	30°C	100%	U		K1=-0.21	1974KKb	(49018)1866

Medium: N-Methylacetamide. In Ethylene glycol (40 C) K1=0.45
Method: gas chromatography.

****

C6H12 L CAS 7668-21-3 (2774)
cis-2-Hexene; CH3.CH:CH.CH2.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	oth	non-aq	30°C	100%	U		K1=-0.21	1974KKb	(49020)1867

Medium: N-Methylacetamide. In ethylene glycol, 40 C, K1=0.49
Method: gas chromatography.

****

C6H12 L (2768)
cis-4-Methyl-2-pentene; CH3.CH:CH.CH(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	oth	non-aq	30°C	100%	U		K1=-0.18	1974KKb	(49022)1868

Medium: N-Methylacetamide. In ethylene glycol, 40 C, K1=0.49
Method: gas chromatography.

****

C6H12 L CAS 4050-45-7 (2773)
trans-2-Hexene; CH3.CH:CH.CH2.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	oth	non-aq	30°C	100%	U		K1=-0.69	1974KKb	(49024)1869

Medium: N-Methylacetamide. In ethylene glycol, 40 C, K1=-0.10
Method: gas chromatography.

****

C6H12 L CAS 4461-48-7 (2769)
trans-4-Methyl-2-pentene; CH3.CH:CH.CH(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	oth	non-aq	30°C	100%	U		K1=-0.62	1974KKb	(49026)1870

Medium: N-Methylacetamide. In ethylene glycol (40 C) K1=-0.15
Method: gas chromatography.

****

C6H12N2 L TED / DABCO CAS 280-57-9 (3076)
1,4-Diazobicyclo[2,2,2]octane (triethylenediamine)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	NaNO3	20°C	0.10M	U		K1=1.65	1950SMa	(49041)1871

****

C6H12N2O2S2 L (2821)
N,N'-Dihydroxyethyl-dithiooxamide; HO.C2H4.NH.CS.CS.NH.C2H4.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	NaClO4	25°C	0.10M	U	I	K1=10.01 B(Ag2L3)=20.53 B(Ag3L4)=31.05	1968PHa	(49050)1872

Medium: 0.1 M NaClO4 0.05 HClO4. With 0.01 M HClO4:K1=10.09, B(Ag2L3)=20.69, B(Ag3L4)=31.29

****

C6H12N4 L Methenamine CAS 100-97-0 (619)
Hexamethylenetetramine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	NaNO3	25°C	0.20M	U	I	B2=3.49	1975BNa	(49380)1873

Medium: LiNO3. In 50% EtOH B2=3.94; 50% PrOH B2=3.02, 50% Acetone B2=4.23

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	20°C	0.30M	U		K(AgLClO3+L=AgL2+ClO3)=3.65 K(AgLClO3+2L=AgL3+ClO3)=3.10	1967MGd	(49381)1874

Medium: ClO3-

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	oth/un	20°C	?	U		K2=3.24 K3=2.89	1963GYa	(49382)1875
Ag+	ISE	oth/un	20°C	0.01M	U	T	B2=3.58	1924PAa	(49383)1876

At 16 C K1=3.50

****

C6H12O L CAS 927-61-7 (3654)
1-Ethoxy-2-methylprop-1-ene; CH3.CH2O.CH:C(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U	T H	K1=-0.77	1968FKb	(49404)1877

Medium: ethylene glycol. Method: gas chromatog. K1=-0.57(10 C), -0.68(20 C)
DH(K1)=-14.6 kJ mol-1, DS=-50 J K-1 mol-1

****

C6H12O L Butylvinylether CAS 111-34-2 (3655)

Butoxyethene; CH3.CH2.CH2.CH2.O.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U	T H	K1=0.75	1968FKb	(49406)1878

Medium: ethylene glycol. Method: gas chromatog. K1=0.94(10 C), 0.89(20 C)
DH(K1)=-15.5 kJ mol-1, DS=-36.8 J K-1 mol-1

****

C6H12O HL CAS 821-41-0 (65)
Hex-5-en-1-ol; CH2:CH.(CH2)4.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	NaClO4	25°C	1.0M	U	TIH	K1=1.515 B2=1.19	1977HSa	(49407)1879

By temp coeff., DH1=-21.0 kJ mol-1, DS1=-42 J K-1 mol-1, also in MeOH etc.

****

C6H12O L (3656)
Isobutyl vinyl ether; (CH3)2.CH.CH2.O.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U	T H	K1=0.75	1968FKb	(49408)1880

Medium: ethylene glycol. Method: gas chromatog. K1=0.94(10 C), 0.83(20 C)
DH(K1)=-16.7 kJ mol-1, DS=41 J K-1 mol-1

****

C6H12O L CAS 4884-01-9 (3652)
cis-1-Ethoxybutene; CH3.CH2O.CH:CH.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U	T H	K1=0.49	1968FKb	(49409)1881

Medium: ethylene glycol. Method: gas chromatog. K1=0.75(10 C), 0.63(20 C)
DH(K1)=-17.6 kJ mol-1, DS=-50 J K-1 mol-1

****

C6H12O L CAS 1528-20-7 (3653)
trans-1-Ethoxybutene; CH3.CH2O.CH:CH.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U	T H	K1=-0.20	1968FKb	(49410)1882

Medium: ethylene glycol. Method: gas chromatog. K1=-0.02(10 C), -0.14(20 C)
DH(K1)=-13.8 kJ mol-1, DS=-50 J K-1 mol-1

****

C6H12O2S HL CAS 22683-64-3 (4376)
(1-Methylpropylthio)ethanoic acid; CH3.CH2.CH(CH3).S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	I	K1=4.16 B2=7.04	1968PSb	(49435)1883

In acetate buffer. I=0.2, K(Ag+HL)=3.34

****
C6H12O2S HL CAS 20600-61-7 (4375)
(Butylthio)ethanoic acid; CH3.(CH2)3.S.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.20M U T H K1=3.92 B2=6.70 1971BFb (49443)1884
K(Ag+HL)=3.15
K(Ag+2HL)=5.31
K1(0.6 C)=4.37, B2=7.80. K1(39.1 C)=3.69, B2=6.04. DH(K1)=-28.5 kJ mol-1,
DH(K2)=-30

Ag+ ISE oth/un 25°C 0.10M U I K1=3.95 B2=6.74 1968PSb (49444)1885
In acetate buffer, I=0.2: K(Ag+HL)=3.16
****
C6H12O2Se HL (4379)
(Butylseleno)ethanoic acid; C4H9.Se.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.20M U T H K1=4.58 B2=8.01 1971BFb (49454)1886
K(Ag+HL)=3.81
K(Ag+2HL)=6.69
K1(0.8 C)=5.04, B2=8.87; K1(39 C)=4.28, B2=7.45. DH(K1)=-32.6 kJ mol-1,
DH(K2)=-27
****
C6H13N L 2-Pipecoline CAS 109-05-7 (1651)
2-Methylpiperidine; C5H10N.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ cal KNO3 25°C 0.50M C H 1975EBa (49783)1887
DH(K1)=-23.0 kJ mol-1, DS(K1)=-11 J K-1 mol-1.
DH(B2)=-51.76, DS(B2)=-41.

Ag+ EMF KNO3 25°C 0.50M U K1=3.53 B2=6.95 1973BBa (49784)1888
****
C6H13N L 3-Pipecoline CAS 626-56-2 (1650)
3-Methylpiperidine; C5H10N.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ cal KNO3 25°C 0.50M C H 1975EBa (49786)1889
DH(K1)=-23.2 kJ mol-1, DS(K1)=-20 J K-1 mol-1.
DH(B2)=-50.92, DS(B2)=-47.7.

Ag+ EMF KNO3 25°C 0.50M U K1=3.20 B2=6.43 1973BBa (49787)1890
****
C6H13N L 4-Pipecoline CAS 626-58-4 (1649)
4-Methylpiperidine; C5H10N.CH3

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        cal KNO3   25°C 0.50M C   H                  1975EBa (49789)1891
DH(K1)=-22.6 kJ mol-1, DS(K1)=-14.4 J K-1 mol-1.
DH(B2)=-50.33, DS(B2)=-44.4.
--------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.50M U        K1=3.26   B2=6.49   1973BBa (49790)1892
********************************************************************************
C6H13N                  L                     CAS 108-91-8  (314)
Cyclohexylamine; C6H11.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KCl    25°C 0.10M U        K1=3.72   B2=8.02   1980HAa (49800)1893
********************************************************************************
C6H13N                  L    MePiperidine     CAS 626-67-5  (1254)
N-Methylpiperidine; C5H10N.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=2.64   B2=3.8    1973BBa (49809)1894
********************************************************************************
C6H13NO                 L                     CAS 100-74-3  (3111)
4-Ethylmorpholine; C4H8ON.CH2.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  50%  U        K1=2.07   B2=3.02   1955ANc (49816)1895
Medium: 50 mole % EtOH/H2O
********************************************************************************
C6H13NO2               HL    Isoleucine       CAS 73-32-5  (424)
2-Amino-3-methylpentanoic acid; CH3.CH2.CH(CH3).CH(NH2).COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C  0.5M U        K1=3.19   B2=7.26   1974KHb (49884)1896
********************************************************************************
C6H13NO2               HL    Leucine          CAS 61-90-5  (47)
2-Amino-4-methylpentanoic acid; H2N.CH(CH2.CH(CH3)2)COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  NaClO4 30°C 0.20M U      T K1=3.74   B2=7.20   1975JBb (50029)1897
--------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C  0.5M U        K1=3.41   B2=7.44   1974KHb (50030)1898
********************************************************************************
C6H13NO2               HL    Norleucine       CAS 616-06-8  (602)
2-Aminohexanoic acid (2-Aminocaproic acid) CH3.(CH2)3.CH(NH2).COOH
--------------------------------------------------------------------------------
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```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C      T K1=3.21   B2=6.71   1975IPb (50156)1899
Glass electrode also used.
-------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.60M U      T K1=3.48   B2=6.76   1967AMb (50157)1900
*************************************************************************
C6H13NO2               HL                      CAS 60-32-2  (1846)
6-Aminohexanoic acid; H2N.CH2.CH2.CH2.CH2.CH2.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  KNO3   15°C 0.50M U T      K1=3.69   B2=7.82   1970PTa (50210)1901
K1(0 C)=3.97, K1(4 0C)=3.33, K2(0 C)=4.25, K2(40 C)=3.53
-------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.50M U        K1=3.6    B2=7.54   1968ALc (50211)1902
Using Ag-AgCl electrode: B2=7.65
-------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=3.59   B2=7.54   1968TPb (50212)1903
*************************************************************************
C6H13NO2S              HL    Ethionine        CAS 67-21-0  (1909)
2-Amino-4-(ethylthio)butanoic acid; CH3.CH2.S.CH2.CH2.CH(NH2).COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.50M C        K1=5.1    B2= 8.34  1984TSb (50258)1904
                                         K(Ag+H2L)=3.44
                                         K(Ag+HL)=3.75
                                         K(Ag+2H2L)=5.94
                                         K(Ag+H2L+HL)=6.49
Method: Ag electrode. K(Ag+2HL)=6.37, K(Ag+HL+L)=8.04, B(Ag2L2)=14.09,
B(Ag2L)=7.93.
-------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C        B2=9.66        1981PSb (50259)1905
                                         B(AgHL)=12.71
                                         B(AgH2L2)=24.03
-------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U        K1=5.25        1964LMa (50260)1906
*************************************************************************
C6H13NS                HL                      CAS 1072-99-7  (284)
1-Methyl-4-mercaptopiperidine; C5H9N(CH3)(SH)
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  10%  C                         1990GVa (50544)1907
                                         B(6,3)=63.67
                                         B(6,4)=79.95
                                         B(8,6)=117.37
                                         B(7,6)=111.72
B(10,9)=166.01, B(12,12)=212.2, B(7,8)=128.52, B(6,8)=113.4, B(2,3)=36.67,
```

B(1,3)=20.71.In 10% methanol/H2O, 2.0 M NaNO3. B(p,q): pAg+qHL=(Ag)p(HL)q.
****
C6H13NS2 L (6801)
1,4-Dithia-7-azacyclononane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl R4N.X 25°C 0.10M M K1=6.43 B2=12.03 1990CKb (50547)1908
Medium: 0.1 M Me4NNO3
****
C6H14N2 L CAS 106-55-8 (3438)
2,5-Dimethylpiperazine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.10M C I K1=3.60 B2=5.98 1974HBa (50653)1909
for the cis-isomer
trans isomer: K1=3.48, B2=6.43
cis isomer. For trans isomer: K1=3,48, B2=6.43. In 52% EtOH, cis isomer:
K1=3,87, B2=6.48; trans isomer: 4.25, 6.31
****
C6H14N2 L CAS 108-49-6 (3437)
2,6-Dimethylpiperazine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.10M C I K1=3.30 B2=6.66 1974HBa (50654)1910
In 52% EtOH, K1=3.86; B2=6.90
****
C6H14N2 L CAS 25155-35-5 (2282)
N,N-Dimethylpiperazine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.10M C I K1=2.20 B2=3.46 1974HBa (50655)1911
In 52% EtOH, K1=2.55; B2=3.41
****
C6H14N4O2 HL Arginine CAS 74-79-3 (40)
2-Amino-5-guanidopentanoic acid; H2N.CH((CH2)3.NH.C(:NH)(NH2)COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl oth/un 30°C 0.10M U K1=4.72 B2=6.94 1981PUa (50987)1912

Ag+ gl oth/un 17°C ? U K1=4.12 B2=8.07 1960PEd (50988)1913

Ag+ gl oth/un 30°C .024M U T H K1=3.04 B2=6.66 1959DGa (50989)1914
K1=3855.2/T-18.452+0.029208T
K2=4898.35/T-23.905+0.037321T
At 25C:DH(K1)=-24 kJ mol-1, DS=-20 J K-1 mol-1; DH(K2)=-30, DS=32. At 0 C:

K1=3.65,K2=4.18;10 C:3.36,4.03;20 C:3.37,3.71;40 C: 3.02,3.32;50 C:2.91,3.36
****
C6H14O2S2 L CAS 5244-34-8 (4390)
3,6-Dithiaoctan-1,8-diol; HO.CH2.CH2.S.CH2.CH2.S.CH2.CH2.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 20°C 1.00M U H 1970WSa (51037)1915
pH=3 DH(K1)=-50.6 kJ mol-1, DS=-64.0 J K-1 mol-1
DH(K2)=-55.6 kJ mol-1, DS=-100.4 J K-1 mol-1
****
C6H14S L Isopropyl sulfi CAS 625-80-9 (5674)
2,2'-Thiodipropane, diisopropyl sulfide; (CH3)2CH-S-CH(CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% U K1=2.03 B2=3.48 1983MMc (51135)1916
B3=4.35
B4=4.63
Medium: MeCN. Data also for other dialkyl sulfides
****
C6H15N L CAS 37007-11-7 (4353)
Diisopropylamine; ((CH3)2.CH)2.NH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl oth/un 25°C 0.50M U K1=3.41 B2=6.73 1983HNa (51146)1917
Medium: 0.1 M LHNO3

Ag+ ISE R4N.X 25°C 2.00M U K1=3.00 B2=7.05 1969MPd (51147)1918
Medium: NH4NO3
****
C6H15N L Dipropylamine CAS 142-84-7 (3666)
Dipropylamine, 4-azaheptane; (CH3.CH2.CH2)2.NH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ oth non-aq ? 100% U B2=10.05 1965MMa (51153)1919
Method: coulometric titration. Medium: acetone, 0.1 M NaClO4
****
C6H15N L Hexylamine CAS 111-26-2 (4352)
Hexylamine; CH3.CH2.CH2.CH2.CH2.CH2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl none 25°C 0.00 U K1=3.66 B2=7.83 1971HTa (51157)1920
****
C6H15N L Triethylamine CAS 121-44-8 (1340)
N,N,N-Triethylamine; (C2H5)3N

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 1.00M U        K1=2.326  B2=4.29   1993GYa (51172)1921
-------------------------------------------------------------------------
Ag+        oth non-aq 23°C 100%  C        K2=0.41        1988SBa (51173)1922
Medium: toluene, by I.R. spectroscopy.
-------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  50%  U        K1=2.31   B2=4.10   1955ANc (51174)1923
Medium: 50 mol % EtOH
-------------------------------------------------------------------------
Ag+        gl  oth/un 25°C 0.40M U        K1=2.6    B2=4.7    1950BJa (51175)1924
Medium: 0.4 C6H15N,HNO3
-------------------------------------------------------------------------
Ag+        ISE oth/un 15°C 0.30M U        B2=4.50        1935BWa (51176)1925
By solubility B2=4.27
-------------------------------------------------------------------------
Ag+        ISE oth/un 20°C .001M U        B2=4.05        1924PAa (51177)1926
*************************************************************************
C6H15NO                 L                       CAS 4048-33-3  (4392)
6-Amino-1-hexanol; NH2.CH2.CH2.CH2.CH2.CH2.CH2.OH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=3.33   B2=7.64   1972PEa (51182)1927
*************************************************************************
C6H15NO                 L                       CAS 100-37-8  (3117)
N,N-Diethyl-2-aminoethanol; (CH3.CH2)2N.CH2.CH2.OH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 2.00M U        B2=4.85        1970UPa (51194)1928
-------------------------------------------------------------------------
Ag+        sol oth/un 20°C  0.0  U        B2=4.62        1961ALa (51195)1929
By glass electrode: B2=4.66
-------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  50%  U        K1=2.60   B2=6.02   1955ANc (51196)1930
Medium: 50% mol% EtOH
*************************************************************************
C6H15NO2                L                       CAS 14002-33-6  (3706)
3,3'-Iminodipropanol; HO.CH2.CH2.CH2.NH.CH2.CH2.CH2.OH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  oth/un 20°C  0.0  U        K1=2.95   B2=5.71   1964AKb (51200)1931
By solubility: B2=5.71
*************************************************************************
C6H15NO3                    Triethanolamine  CAS 102-71-6  (447)
Tris-(2-hydroxyethyl)amine;                                          L
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

```
--------------------------------------------------------------------------------
Ag+        gl  NaNO3  25°C 0.20M U        K1=2.6    B2=4.2    1974UPa (51263)1932
Medium: LiNO3
--------------------------------------------------------------------------------
Ag+        gl  alc/w  25°C 100%  U        K1=3.3    B2=5.6    1974UPa (51264)1933
                                          B3 5.2
Medium: MeOH, 0.2 M LiNO3
--------------------------------------------------------------------------------
Ag+        gl  alc/w  25°C 100%  U        K1=3.3    B2=5.1    1974UPa (51265)1934
                                          B3 5.5
Medium: MeOH, 0.1 M LiNO3
--------------------------------------------------------------------------------
Ag+        gl  oth/un   ?  0.20M U        K1=2.6    B2=4.7    1974UPb (51266)1935
Medium: DMF, 0.2 M LiNO3. In DMSO: K1=1.8, B2=3.0
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  40%  U  I     K1=3.08   B2=4.59   1973MPf (51267)1936
                                          B3=5.08
Medium: 20-95% acetone, 0.4 M LiNO3
K1(20%)=2.89, B2(20%)=4.28, B2(95%)=5.72, B3(20%)=4.57, B3(95%)=6.50
--------------------------------------------------------------------------------
Ag+        ISE diox/w 25°C  40%  U  I     K1=2.56   B2=4.28   1972MPc (51268)1937
                                          B3=5.28
Medium: 20-70% dioxan, 0.4 M LiNO3
K1(20%)=2.49, B2(20%)=4.08, B2(70%)=5.04, B3(20%)=5.56, B3(70%)=5.95
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=2.34   B2=4.09   1972PEa (51269)1938
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  20%  U  I M   K1=2.90   B2=4.78   1965MPb (51270)1939
                                          B3=5.15
Medium:EtOH, 0.4 m LiNO3. K1=2.78(0%),3.00(40%); B2=4.54(0%),4.93(40%),5.2
(60%),5.38(80%),5.49(90%),5.81(100%); B3=5.08(0%),5.53(60%),6.59(100%)
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.01M U        B2=5.28        1961ALb (51271)1940
--------------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  50%  U        K1=2.72   B2=4.44   1955ANc (51272)1941
Medium: 50% mol% EtOH
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=2.30   B2=3.64   1950BJa (51273)1942
********************************************************************************
C6H15NS                 L                     CAS 22572-38-9  (1218)
1-Amino-3-thia-4,4-dimethylbutane; H2N.CH2.CH2.S.C(CH3)3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=5.27   B2=9.99   1977TGa (51345)1943
                                          B(2Ag+L)=7.88
                                          B(2Ag+2L)=14.17
                                          B(Ag+HL)=3.35
                                          B(Ag+HL+L)=8.41
B(Ag+2HL)=4.99
```

```
--------------------------------------------------------------------------------
Ag+        cal KNO3   25°C 0.50M C   H                    1977TGc (51346)1944
DH(Ag+HL)=-35.1 kJ mol-1, DH(Ag+2HL)=-61.38, DH(Ag+HL+L)=-74.9,
DH(B2)=-82.4, DH(2Ag+2L)=-131, DH(2Ag+L)=-69.5.
********************************************************************************
C6H15N3                 L                       CAS 26150-46-9  (149)
1,3,5-cis,cis-Triaminocyclohexane; C6H9.(NH2)3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  NaNO3  20°C 0.10M U                        1962BSb (51370)1945
                                      K(Ag+HL)=5.3
                                      K(AgL+H)=8.8
                                      K(AgL+Ag)=2.4
********************************************************************************
C6H15N3                 L                       CAS 4730-54-5  (26)
1,4,7-Triazacyclononane; cyclo(-NH.CH2.CH2.NH.CH2.CH2.NH.CH2.CH2-)
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE R4N.X  22°C 0.10M U  I     K1=4.97   B2=7.90   1994GRa (51397)1946
Medium: Et4NClO4. In CH3CN: K1=5.78; K2=5.53.   Method: Ag-electrode
********************************************************************************
C6H15O2PS2             HL                        (2059)
O,O'-Dipropyl dithiophosphoric acid; (C3H7O)2P(S)SH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  90%  U        B2=15.55       1971TCa (51484)1947
Medium: 90% EtOH, 0.3 M NaClO4
********************************************************************************
C6H15O2PS2             HL                       CAS 25134-38-7  (4401)
Phosphorodithioic acid O,O-diisopropyl ester; (CH3.CH(CH3)O)2PS.SH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  90%  U        B2=15.80       1971TCa (51497)1948
Medium: 90% EtOH, 0.3 M NaClO4
********************************************************************************
C6H16N2                 L                        (7148)
N,N',N'-Trimethyl-1,3-diaminopropane
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 1.00M C        K1=2.91   B2=5.52   1994GYa (51596)1949
                                      B(AgHL)=12.20
                                      B(Ag2L2)=9.61
********************************************************************************
C6H16N2                 L    Tetrameen        CAS 110-18-9  (124)
N,N,N',N'-Tetramethyl-1,2-diaminoethane; (CH3)2N.CH2.CH2.N(CH3)2
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	C	H	K1=3.25 B2= 6.24	2002CNa (51639)	1950

Method: Ag electrode. Medium: DMSO, 0.10 M Et4NClO4. By calorimetry, DH(K1)=-30.8 kJ mol-1, DS(K1)=-41 J K-1 mol-1; DH(B2)=-69.3, DS(B2)=-113.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	1.0M	C		K1=2.97 B2=5.48 B(AgHL)=10.25	1994GYb (51640)	1951

****

C6H16N2OS L (3128)

3-Oxa-6-thiaoctane-1,8-diamine; H2N.CH2.CH2.O.CH2.CH2.S.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	none	20°C	0.0	U	T H	K1=8.42	1959LBb (51670)	1952

K1=8.80(10 C), 8.12(30 C), 7.71(40 C). DH(K1)=-60.2 kJ mol-1, DS=-46

****

C6H16N2O2 L CAS 929-59-4 (915)

3,6-Dioxaoctane-1,8-diamine; H2N.CH2.CH2.O.CH2.CH2.O.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	R4N.X	25°C	0.05M	U	H	K1=15.42	2002BSd (51694)	1953

Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-106.7 kJ mol-1, DS(K1)=-64.1 J K-1 mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	25°C	100%	U	H	K1=9.59	1985BUb (51695)	1954

Medium: MeOH, 0.05M Et4NClO4. DH(K1)=-58.3 kJ mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	R4N.X	25°C	0.10M	U	I	K1=7.70	1983CSa (51696)	1955

Also data for 0.05-1.0 mol fraction MeCN/H2O

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	R4N.X	25°C	0.10M	C	H	K1=7.7	1975ANa (51697)	1956

From calorimetry: DH1=-57.5 kJ mol-1, DS1=-45.6

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	oth/un	20°C	->0	U	T H	K1=8.04	1959LBb (51698)	1957

DH(K1)=-55.2 kJ mol-1,DS=-33 J K-1 mol-1. K1=8.33(10 C),7.71(30 C),7.41(40C)

****

C6H16N2S L (1873)

1,7-Diamino-3-thiaheptane; H2N.CH2.CH2.S.CH2.CH2.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	C		B2=9.86 K(Ag+H2L)=2.62 K(Ag+2H2L)=3.70 K(Ag+HL)=4.82 K(2Ag+2HL)=12.5	1984SGe (51719)	1958

Additional method: Ag electrode. K(2Ag+HL+L)=15.77, B(Ag2L2)=17.20,

K(Ag+H2L+HL)=7.31, K(Ag+2HL)=9.08, K(Ag+HL+L)=9.86, B(Ag2L)=10.26.

Ag+ cal KNO3 25°C 0.50M C H 1984STc (51720)1959
DH(Ag+H2L)=-30.1 kJ mol-1, DS(Ag+H2L)=-51 J K-1 mol-1; DH(Ag+2H2L)=-61,
DS(Ag+2H2L)=-134; DH(2Ag+2L)=-140, DS=-140; DH(B2)=-79.8, DS(B2)=-79.
****
C6H16N2S L CAS 13643-20-4 (1856)
1,7-Diamino-4-thiaheptane; H2N.CH2.CH2.CH2.S.CH2.CH2.CH2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.50M C 1984SGe (51723)1960
K(Ag+H2L)=3.04
K(Ag+2H2L)=4.48
Additional method: Ag electrode.

Ag+ cal KNO3 25°C 0.50M C H 1984STc (51724)1961
DH(Ag+H2L)=-31.8 kJ mol-1, DS(Ag+H2L)=-48 J K-1 mol-1; DH(Ag+2H2L)=-64.8,
DS(Ag+2H2L)=-132.
****
C6H16N2S2 L (3120)
3,6-Dithiaoctane-1,8-diamine; H2N.CH2.CH2.S.CH2.CH2.S.CH2.CH2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% U H K1=10.06 1985BUb (51754)1962
Medium: MeOH, 0.05M Et4NClO4. DH=-64.9 kJ mol-1

Ag+ gl NaClO4 25°C 0.10M U K1=8.34 1977ASg (51755)1963
B(AgHL)=15.32

Ag+ gl KNO3 30°C 1.0M U K1=5.08 1951GOa (51756)1964
****
C6H17N3 L CAS 56-18-8 (968)
1,5,9-Triazanonane, 4-azaheptane-1,7-diamine; H2N.CH2.CH2.CH2.NH.CH2.CH2.CH2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% C H K1=7.08 1989CDa (51888)1965
B(Ag2L)=9.98
B(Ag3L2)=20.64
Medium: DMSO. DH(K1)=-68.3 kJ mol-1; DS=-94. DH(Ag2L)=-99.2; DS=-142.
DH(Ag3L2)=-216.2; DS=-330

Ag+ gl KNO3 40°C 1.00M C T H 1974DFa (51889)1966
B(Ag2L2)=8.04
DH(Ag2L2)=-15.6 kJ mol-1 (40 C). At 25 C: B(Ag2L2)=8.59 (by polarography)
35 C: 8.25; 45 C: 7.87
****
C6H17N3 L CAS 24229-52-6 (4355)

4-Methyl-1,4,7-triazaoctane; H2N.CH2.CH2.N(CH3).CH2.CH2.NH.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	NaNO3	25°C	1.3M	C		K1=5.35 B2= 7.83 B(AgHL)=13.68 B(AgHL2)=17.74 B(AgH2L2)=27.13 B(Ag2L2)=13.75	1983YMb (51909)	1967

Ag electrode. B(Ag3L2)=15.33, B(AgH-1L)=-6.35

****

C6H17N3 L CAS 38977-99-0 (1067)

7-Methyl-1,4,7-Azaoctane; H2N.CH2.CH2.NH.CH2.CH2.N(CH3).CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	NaNO3	25°C	1.30M	C		B2=7.74 B(AgH2L)=25.99, B(AgHL)=13.18 B(AgH2L2)=25.99,B(Ag2L2)=13.84 B(Ag2H2L2)=28.41 B(Ag2HL2)=20.86,B(Ag3L2)=15.35	1984YMa (51916)	1968

B(AgH-1L)=-5.96 Measured using glass and Ag electrodes

****

C6H18N3OP L HMPA CAS 680-31-9 (603)

Hexamethylphosphoramide, Tris-(dimethylamino)phosphine oxide;((CH3)2N)3PO

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	?	100%	U	I	B3=6.17	1972LUa (51974)	1969

Medium: acetone. In C2H5NO2, B3=8.8. In MeOH, K1=-0.2, B2=0.2

Ag+	ISE	non-aq	25°C	100%	U		K1=0.30 B2=0.34 B3=0.30	1972LUa (51975)	1970

Medium: CH3CN. In 2-butanol: K1=0.68, B2=0.97, B3=0.30, B4=1.48. In MeOH: K1=-0.2, B2=0.2. In sulfolane: 0.1 Et4NClO4, K1=4.04, B2=4.30, B3=5.20

****

C6H18N4 L Trien-tetramine CAS 112-24-3 (11)

1,4,7,10-Tetraazadecane; H2N.CH2.CH2.NH.CH2.CH2.NH.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	C	H	K1=10.32	1990CBd (52062)	1971

Medium: DMSO, 0.1 M R4NX. DH(K1)=-91.5 kJ mol-1, DS=109 J K-1 mol-1 (calor.)

Ag+	ISE	alc/w	25°C	100%	U	H	K1=10.12	1985BUb (52063)	1972

Medium: MeOH, 0.05M Et4NClO4. DH=-69.4 kJ mol-1

Ag+	EMF	non-aq	25°C	100%	U		K1=5.30	1979SZa (52064)	1973

Medium: DMSO

```
--------------------------------------------------------------------------------
Ag+        gl  NaNO3  20°C 0.10M U        K1=7.7         1950SCa (52065)1974
                                          K(Ag+HL)=5.8
                                          K(Ag+AgL)=2.4
                                          K(Ag+H2L)=2.8
********************************************************************************
C6H18N4                 L    Tren             CAS 4097-89-6  (817)
2,2',2''-Triaminotriethylamine; (H2N.CH2.CH2)3N
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C   H    K1=9.49   B2=11.1   1990CBd (52175)1975
                                          B(Ag2L)=11.51
Medium: DMSO, 0.1 M R4NX. By calorimetry: DH(K1)=-90 kJ mol-1, DS=119 J K-1
mol-1; DH(B2)=-102, DS=131; DH(Ag2L)=-97, DS=104
--------------------------------------------------------------------------------
Ag+        gl  NaNO3  20°C 0.10M U        K1=7.8         1950PSa (52176)1976
                                          K(Ag+H2L)=3.3
                                          K(Ag+HL)=5.6
                                          B(Ag2L)=2.4
********************************************************************************
C7H5NO2S2              HL                    (3781)
5-(2-Furyl)-2-thioxo-1,3-thiazolidine-4-one;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        dis NaClO4 20°C 0.10M U        K1=7.19        1965NKb (52598)1977
********************************************************************************
C7H5NO4                HL                    CAS 552-16-9  (491)
2-Nitrobenzoic acid; O2N.C6H4.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 30°C  1.0M U        K1=2.0    B2=3.40   1967VSb (52838)1978
********************************************************************************
C7H5NO4                HL                    CAS 121-92-6  (490)
3-Nitrobenzoic acid; O2N.C6H4.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 30°C  1.0M U        K1=2.4    B2=3.90   1967VSb (52862)1979
********************************************************************************
C7H5NO4                HL                    CAS 62-23-7  (489)
4-Nitrobenzoic acid; O2N.C6H4.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 30°C  1.0M U        K1=2.1    B2=5.10   1967VSb (52903)1980
********************************************************************************
C7H6N2                  L    Benzimidazole    CAS 51-17-2  (52)
```

Benzimidazole; C7H6N2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=3.1	B2=6.25	1979BBa (53459)	1981

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
Ag+	con	alc/w	35°C	0%	C	I	K1=1.40		1989MSh (53803)	1982
Ag+	sol	none	25°C	0.0	C	T H	Kso(AgL)=-4.137		1976DRa (53804)	1983
Ag+	ISE	NaClO4	30°C	1.0M	U		K1=3.4	B2=4.2	1967VSb (53805)	1984
Ag+	ISE	NaClO4	25°C	1.0M	U	I	K1=0.519	B2=0.56	1949LEa (53806)	1985

Data for 0-60% w/w MeOH/H2O. In 60%, K1=1.88.
Medium: 0.0001-0.0075 M NaClO4. Data for 20-35 C. At 20 C, Kso(AgL)=-4.145
DH(Kso)=31.79 kJ mol-1, DS(Kso)=28.29 J K-1 mol-1.
At I=0, K1=0.914; I=0.2 K1=0.602

C7H7Cl L p-Chlorotoluene CAS 95-49-8 (3130)
2-Chlorotoluene; Cl.C6H4.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	oth/un	25°C	0.50M	U		K1=0.77		1956OAa (55107)	1986

C7H7N L CAS 100-69-6 (299)
2-Vinylpyridine; C5H4N.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	U		K1=1.75	B2=3.55	1974ILa (55114)	1987

C7H7N L CAS 100-43-6 (294)
4-Vinylpyridine; C5H4N.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	U		K1=1.98	B2=4.08	1974ILa (55122)	1988

C7H7NO L CAS 350-03-8 (1479)
3-Acetylpyridine; C5H4N.CO.CH3

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

```
Ag+        ISE KNO3   25°C 0.50M U        K1=1.696  B2=3.117  1987KLa (55137)1989
********************************************************************************
C7H7NO2                HL    Anthranilic      CAS 118-92-3  (1589)
2-Aminobenzoic acid, Anthranilic acid; H2N.C6H4.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C  ->0  U        K1=1.86        1958LUa (55197)1990
********************************************************************************
C7H7NO2                HL                     CAS 3222-47-7  (3154)
6-Methylpyridine-2-carboxylic acid; CH3.C5H3N.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  NaNO3  20°C 0.10M U        K1=3.85   B2=7.00   1960ANb (55420)1991
********************************************************************************
C7H7NO2                 L                     CAS 2549-09-8  (3153)
Methyl isonicotinate; C5H4N.CO.OCH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  ->0  U        B2=2.45        1955MBc (55529)1992
********************************************************************************
C7H7NO2                 L    Me-Nicotinate    CAS 92-60-7  (3152)
Methyl nicotinate; C5H4N.CO.OCH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  ->0  U        B2=2.99        1955MBc (55530)1993
********************************************************************************
C7H8                    L                     CAS 108-88-3  (2144)
Toluene; C6H5.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sp  non-aq 20°C 100%  U T H    K1=3.97        1964TJa (55779)1994
Medium: toluene,ClO4-. K1=2.67(1.4 C); DH(K1)=14.2 kJ mol-1
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C 0.50M U T H    K1=0.08        1956OAa (55780)1995
DH(K1)=-11.4 kJ mol-1, DS=-36.7 J K-1 mol-1. K1=0.25(1.6 C)
--------------------------------------------------------------------------------
Ag+        sol NaClO4 25°C  1.0M U        K1=0.42        1952AKa (55781)1996
--------------------------------------------------------------------------------
Ag+        sol KNO3   25°C  1.0M U        K1=0.47   B2=1.14   1949AKa (55782)1997
********************************************************************************
C7H8N2O                 L    Benzhydrazide    CAS 613-94-5  (2565)
Benzoic acid hydrazide; C6H5.CO.NH.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
```

Ag+ ISE alc/w 25°C var U I K1=7.40 1986BBa (55833)1998
In 0.07 mol parts EtOH/H2O, 0.1 M NaNO3(NaCLO4); Ag-electrode.
In 0.79 mol EtOH K1=6.47; In 0.79 mol DMFA/H2O: K1=5.62. Data also for DMSO
****
C7H8N2O L CAS 19547-38-7 (1474)
Pyridine-2-carboxylic acid N-methylamide, Picolinic acid N-methylamide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=1.52 B2=3.18 1985KLa (55840)1999
Simultaneous measurement of Ag+ and H+
****
C7H8N2OS L CAS 3394-05-6 (3182)
N-3-Hydroxyphenylthiourea; HO.C6H4.NH.CS.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ix KNO3 20°C 0.50M U K1=5.6 1958HOb (55850)2000
****
C7H8N2O2 L CAS 15513-52-7 (5516)
3-Nitro-2,6-dimethylpyridine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaNO3 25°C 0.50M C K1=1.12 1984ERa (55896)2001
****
C7H8N2S HL Phenylthiourea CAS 103-85-5 (625)
1-Phenyl-2-thiourea; C6H5.NH.CS.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE mixed 25°C 82% U K1=8.75 B2=11.56 1979TBa (55938)2002
B3=3.70
Medium: 82% formamide

Ag+ ISE mixed 25°C 0.20M U I 1978BMb (55939)2003
B3=14.62
Medium: 40 mol/l H2O in H2O/Dimethylformamide mixed solvent
****
C7H8N4S L CAS 3608-75-1 (1799)
2-Pyridinecarboxaldehyde thiosemicarbazone; C5H4N.CH:N.NH.CS.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp oth/un 25°C 0.10M U K1=13.4 1975LMb (56020)2004
****
C7H8O L Anisole CAS 100-66-3 (3131)
Methoxybenzene; C6H5.OCH3

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

---
Ag+ sol oth/un 25°C ? U K1=0.40 1950AKa (56052)2005
****
C7H8O4S HL (3159)
4-Methoxybenzenesulfonic acid; CH3O.C6H4.SO3H

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ oth NaClO4 25°C 1.0M U K1=-0.12 B2=-0.22 1958ACb (56138)2006
****
C7H9N L 2,3-Lutidine CAS 583-61-9 (4415)
2,3-Dimethylpyridine; C5H3N.(CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=2.45 B2=4.78 1972FHb (56181)2007
****
C7H9N L 2,4-Lutidine CAS 108-37-4 (319)
2,4-Dimethylpyridine; C5H3N.(CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.10M U K1=1.93 B2=4.626 1987KLa (56192)2008

Ag+ ISE KNO3 25°C 0.50M U K1=2.54 B2=5.07 1972FHb (56193)2009

Ag+ ISE alc/w 25°C 96% U K1=2.66 B2=5.23 1972MTb (56194)2010
Medium: 96% EtOH, 0.1 M NaClO4

Ag+ gl KNO3 25°C 0.50M U K1=2.47 B2=5.18 1948BVa (56195)2011
****
C7H9N L 2,5-Lutidine CAS 589-93-5 (3728)
2,5-Dimethylpyridine; C5H3N(CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=2.56 B2=4.91 1972FHb (56203)2012

Ag+ gl KNO3 25°C 0.61M U K1=2.42 B2=4.95 1967SBd (56204)2013
****
C7H9N L 2,6-Lutidine CAS 108-44-1 (723)
2,6-Dimethylpyridine; C5H3N.(CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaNO3 25°C 0.50M C K1=2.51 1984ERa (56211)2014

Ag+ ISE KNO3 25°C 0.50M U K1=2.68 B2=5.06 1972FHb (56212)2015

Ag+ ISE alc/w 25°C 96% U K1=2.65 B2=5.14 1972MTb (56213)2016

Medium: 96% EtOH, 0.1 M NaClO4

Ag+ ISE mixed 25°C 80% U I B2=5.28 1965PLa (56214)2017
Medium: acetone. B2=4.95(0%),4.90(10%),4.85(20%),4.81(30%),4.80(40%),
4.83(50%),4.89(60%),5.01(70%)

Ag+ ISE diox/w 25°C 90% U I B2=5.36 1965PLa (56215)2018
Medium: B2=4.83(10% dioxan),4.75(20%),4.70(30%),4.68(40%),4.70(50%),
4.76(60%),4.89(70%),5.10(80%)

Ag+ ISE alc/w 25°C 90% U I B2=4.81 1965PLa (56216)2019
Medium: EtOH. B2=5.01(10%),4.99(20%),4.92(30%),4.82(40%),4.71(50%),
4.60(60%),4.59(70%),4.66(80%)

****

C7H9N L CAS 100-71-0 (721)
2-Ethylpyridine; C5H4N.C2H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	U		K1=1.66	B2=4.469	1987KLa	(56223)2020

Ag+ EMF KNO3 25°C 0.50M U H K1=2.29 B2= 4.55 1976BEb (56224)2021
Method: Ag electrode. By calorimetry, DH(K1)=-24.0 kJ mol-1,
DS(K1)=-36.8 J K-1 mol-1, DH(B2)=-41.6, DS(B2)=-52.47.

Ag+ ISE alc/w 25°C 96% U K1=2.49 B2=4.92 1972MTb (56225)2022
Medium: 96% EtOH, 0.1 M NaClO4

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	alc/w	25°C	100%	U		K1=2.04	B2=3.25	1960ALa	(56233)2023
							B3=3.48			

Medium: EtOH

Ag+ oth alc/w 25°C 59% U B2=3.65 1952FYa (56234)2024

Ag+ dis KNO3 25°C 1.0M U K1=1.51 1952GOa (56235)2025
K(Ag+AgL)=0.15

Ag+ ISE alc/w 25°C 50% U B2=3.17 1934LAb (56236)2026
Medium: 50 mol% EtOH

Ag+ ISE oth/un 20°C 0.02M U B2=3.61 1924PAa (56237)2027

****

C7H9N L 3,4-Lutidine CAS 583-58-4 (2056)
3,4-Dimethylpyridine; C5H3N.(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	U		K1=2.43	B2=4.85	1972FHb	(56251)2028
Ag+	ISE	alc/w	25°C	96%	U		K1=2.63	B2=5.20	1972MTb	(56252)2029

Medium: 96% EtOH, 0.1 M NaClO4

****

C7H9N L 3,5-Lutidine (323)

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.50M	U		K1=2.36	B2=4.66	1972FHb	(56274)2030
Ag+	ISE	alc/w	25°C	96%	U		K1=2.59	B2=4.99	1972MTb	(56275)2031

Medium: 96% EtOH, 0.1 M NaClO4

Ag+	gl	KNO3	25°C	0.61M	U		K1=2.37	B2=4.65	1967SBd	(56276)2032

****

C7H9N L 3-Ethylpyridine CAS 536-78-7 (2038)

3-Ethylazine, 3-Ethylpyridine; C5H4N.C2H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	KNO3	25°C	0.50M	U	H	K1=2.23	B2= 4.53	1976BEb	(56294)2033

Method: Ag electrode. By calorimetry, DH(K1)=-21.8 kJ mol-1, DS(K1)=-30.6 J K-1 mol-1, DH(B2)=-50.04, DS(B2)=-81.13.

****

C7H9N L 3-Methylaniline CAS 108-44-1 (755)

3-Methylaniline (3-Toluidine); CH3.C6H4.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	alc/w	25°C	100%	U		K1=2.35	B2=3.63	1960ALa	(56303)2034
							B3=3.98			

Medium: EtOH

Ag+	oth	alc/w	25°C	59%	U		B2=3.46		1952FYa	(56304)2035
Ag+	dis	KNO3	25°C	1.0M	U		K1=1.47		1952GOa	(56305)2036
							K(Ag+AgL)=0.22			

****

C7H9N L 4-Ethylpyridine CAS 536-75-4 (2055)

4-Ethylazine, 4-Ethylpyridine; C5H4N.C2H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	KNO3	25°C	0.50M	U	H	K1=2.34	B2= 4.67	1976BEb	(56319)2037

Method: Ag electrode. By calorimetry, DH(K1)=-25.6 kJ mol-1, DS(K1)=-41.0 J K-1 mol-1, DH(B2)=-52.93, DS(B2)=-88.12.

```
------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  96%  U        K1=2.46   B2=4.96   1972MTb (56320)2038
Medium: 96% EtOH, 0.1 M NaClO4
******************************************************************************
C7H9N                   L    4-Methylaniline  CAS 106-49-0  (754)
4-Methylaniline (4-Toluidine); CH3.C6H4.NH2
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        B2=3.86        1960ALa (56336)2039
                                         B3=4.22
Medium: EtOH
------------------------------------------------------------------------------
Ag+        oth alc/w  25°C  50%  U        B2=3.9         1952FYa (56337)2040
------------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=1.56        1952GOa (56338)2041
                                         K(Ag+AgL)=0.09
------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  50%  U        B2=3.48        1952GOa (56339)2042
Medium: 50 mol% EtOH
******************************************************************************
C7H9N                   L    Benzylamine      CAS 100-46-9  (3132)
Benzylamine; C6H5.CH2.NH2
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        gl  oth/un 25°C 0.50M U        K1=3.02   B2=7.04   1983HNa (56353)2043
Medium: 0.1 M LHNO3
------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        B2=7.79        1960ALa (56354)2044
Medium: EtOH
------------------------------------------------------------------------------
Ag+        gl  KNO3   30°C  1.0M U        K1=3.02   B2=6.80   1954GFb (56355)2045
------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U T      K1=3.29   B2=7.14   1948BVa (56356)2046
b(logB2)/dt=0.032
------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  50%  U        B2=7.06        1934LAb (56357)2047
******************************************************************************
C7H9N                   L    N-Me-Aniline     CAS 100-61-8  (1344)
N-Phenyl-N-methylamine; C6H5.NH.CH3
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  96%  U        K1=1.38   B2=1.74   1961ALb (56365)2048
Medium: 96% EtOH
------------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=1.00        1952GOa (56366)2049
                                         K(Ag+AgL)=-0.10
******************************************************************************
```

C7H9NO3S HL CAS 87655-41-2 (5520)
2,6-Dimethylpyridine-3-sulfonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaNO3 25°C 0.50M C K1=1.95 1984ERa (56449)2050
****
C7H9N3S L CAS 5351-69-9 (3161)
4-Phenylthiosemicarbazide;C6H5.NH.NH.CS.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE NaClO4 25°C 0.1M C K1=8.08 B2=10.66 1976BBh (56503)2051
****
C7H10N2 L CAS 25086-88-8 (4418)
2-Ethyl-1-vinylimidazole;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 1.0M U K1=2.97 B2=6.22 1969NNa (56616)2052
****
C7H10N2 L CAS 6627-60-7 (3729)
6-Methyl-2-(aminomethyl)pyridine; CH3.C5H3N.CH2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF NaNO3 20°C 0.10M U K1=4.4 1971ANa (56651)2053
****
C7H10N2O L (4442)
2-Hydroxyethyl-1-vinylimidazole;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 1.0M U K1=2.86 B2=6.24 1969NNa (56663)2054
****
C7H10N2O L (4443)
4-Hydroxyethyl-1-vinylimidazole;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 1.0M U K1=3.03 B2=6.40 1969NNa (56665)2055
****
C7H10N2OS HL CAS 51-52-5 (4468)
6-Propyl-2-thiouracil (6-propyl-4-hydroxy-2-mercaptopyrimidine);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF none 25°C 0.0 C T H K1=11.8 B2=20.90 2002DZa (56675)2056
Method: Ag electrode. Data for 5-45 C. DH(K1)=-7.9 kJ mol-1, DS(K1)=64.4
J K-1 mol-1; DH(B2)=-4.2, DS(B2)=163.

****
C7H10O2 L CAS 1670-46-8 (4416)
2-Acetylcyclopentanone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl diox/w 30°C 75% U K1=4.22 1967SUa (56708)2057
****
C7H10O4 H2L CAS 5164-76-1 (959)
Pent-1-ene-5-dioic acid; CH2:CH.CH2.CH2.CH(COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.10M M K1=2.280 1975IPa (56743)2058
Medium: CH3COOK
****
C7H11NO4 H2L CAS 16598-06-4 (965)
N-(Prop-2-enyl)iminodiethanoic acid; CH2:CH.CH2.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.10M M K1=4.71 B2=6.9 1975IPa (56783)2059
Medium: 0.1M K-acetate
****
C7H11N2+ L (4420)
2'-Aminoethylpyridinium cation

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.50M U K1=2.08 B2=4.46 1969PBa (57021)2060
****
C7H12 L CAS 2146-38-5 (3720)
1-Ethylcyclopentene; C5H7.CH2.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis non-aq 30°C 100% U K1=0.56 1962GHa (57025)2061
Medium: ethylene glycol, 1.77 M AgNO3
****
C7H12 L CAS 591-49-1 (3716)
1-Methylcyclohexene; C6H9.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis non-aq 30°C 100% U K1=0.10 1962GHa (57026)2062
Medium: ethylene glycol, 1.77 M AgNO3
****
C7H12 L CAS 694-35-9 (3721)
3-Ethylcyclopentene; C5H7.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U		K1=1.07	1962GHa (57027)	2063

Medium: ethylene glycol, 1.77 M AgNO3

****

C7H12 L CAS 591-48-0 (3717)

3-Methylcyclohexene; C6H9.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U		K1=0.74	1962GHa (57028)	2064

Medium: ethylene glycol, 1.77 M AgNO3

****

C7H12 L CAS 3742-38-9 (3722)

4-Ethylcyclopentene; C5H7.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U		K1=0.85	1962GHa (57029)	2065

Medium: ethylene glycol, 1.77 M AgNO3

****

C7H12 L CAS 591-47-9 (3718)

4-Methylcyclohexene; C6H9.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U		K1=0.71	1962GHa (57030)	2066

Medium: ethylene glycol, 1.77 M AgNO3

****

C7H12 L CAS 1192-37-6 (3719)

Methylenecyclohexane; CH2:C6H10

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U		K1=0.98	1962GHa (57032)	2067

Medium: ethylene glycol, 1.77 M AgNO3

****

C7H12N4 L CAS 7198-75-6 (4423)

1,5-Hexamethylenetetrazole;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.10M	U	I	B2=3.05	1969DPc (57203)	2068

I=0.4: B2=2.98

****

C7H12O2 HL CAS 1119-60-4 (963)

5-Heptenoic acid; CH3.CH:CH.CH2.CH2.CH2.COOH

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

Ag+ ISE oth/un 25°C 0.10M M K1=2.075 1975IPa (57221)2069
Medium: K-acetate

****

C7H12O2S HL (4446)
(Pent-1-enylthio)ethanoic acid; CH2:CH.CH2.CH2.CH2.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.20M	U	T H	K1=4.19	B2=7.00	1971BFb	(57252)2070
							K(Ag+HL)=3.43			
							K(Ag+2HL)=5.85			
							B(Ag2L)=6.10			

K1(0.6 C)=4.73, K1(39 C)=3.90, B2(0.6 C)=7.38, B2(39 C)=6.40
DH(K1)=-35.1 kJ mol-1, DH(K2)=-20

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	I	K1=4.21	B2=6.95	1968PSb	(57253)2071

In acetate buffer, I=0.2 M: K(Ag+HL)=3.44

****

C7H12O2Se HL (4447)
(Pent-1-enylseleno)ethanoic acid; CH2:CH.CH2.CH2.CH2.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.20M	U	T H	K1=4.63	B2=7.97	1971BFb	(57255)2072
							K(Ag+HL)=3.99			
							K(Ag+2HL)=6.72			
							B(Ag2L)=6.44			

K1(0.8 C)=5.30, K1(39.1 C)=4.43, B2(0.8 C)=9.05, B2(39.1 C)=7.42
DH(K1)=-38.2 kJ mol-1, DH(K2)=-33

****

C7H12O4 H2L CAS 534-59-8 (480)
Butylpropanedioic acid (Butylmalonic acid); HOOC.CH(C4H9).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	M		K1=0.74	1975IPa	(57329)2073

Medium: K-acetate

****

C7H12O4S2 H2L (1094)
1,3-Dithiopropane-S,S'-diethanoic acid; (HOOC.CH2.S.CH2)2.CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	NaNO3	20°C	1.0M	U		K1=5.7	B2=8.1	1944LAa	(57382)2074

****

C7H13NO2 HL CAS 103067-99-4 (1127)
2-Amino-hept-6-enoic acid; CH2:CH.CH2.CH2.CH2.CH(NH2).COOH

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

```
Ag+        gl  KNO3   25°C 0.10M C        K1=3.34   B2=6.41   1975IPb (57435)2075
                                          K(Ag+HL)=1.73
*******************************************************************************
C7H13NO3              HL                        (7175)
3,3'-Dimethylglutaramide; HOOCCH2C(CH3)2CH2CONH2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U        K1=1.25   B2=4.82   1995MWb (57470)2076
*******************************************************************************
C7H13NO4             H2L                     CAS 16578-07-5  (341)
N-Propyliminodiethanoic acid; CH3.CH2.CH2.N(CH2.COOH)2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.10M M        K1=4.29   B2=7.5    1975IPa (57522)2077
Medium: 0.10M K-acetate
*******************************************************************************
C7H14N2O3S            HL    Gly-Met          CAS 554-94-9  (726)
Glycyl-methionine; H2N.CH2.CO.NH.CH(CH2.CH2.S.CH3).COOH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=4.7    B2=8.03   1984LPa (57790)2078
                                          B(AgHL)=11.91
                                          B(AgH2L)=17.4
                                          B(Ag2L2)=12.34
*******************************************************************************
C7H14N2O3S            HL    Met-Gly          CAS 14486-03-4  (727)
Methionyl-glycine; H2N.CH(CH2.CH2.S.CH3).CO.NH.CH2.COOH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=4.63   B2=8.29   1984LPa (57811)2079
                                          B(AgHL)=10.72
                                          B(AgH2L)=15.47
                                          B(Ag2L2)=12.45
                                          B(Ag2HL2)=18.70
*******************************************************************************
C7H14N2O4S2           H2L                     CAS 28052-93-7  (526)
S,S'-Methylenebis(L-cysteine); H2N(HOOC)CH.CH2.S.CH2.S.CH2.CH(COOH)NH2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.10M U        K1=8.69        1975SSf (57826)2080
                                          K(AgL)=6.40
*******************************************************************************
C7H14O                 L                     CAS 6439-54-9  (3736)
cis-1-(2'-Methylpropoxy)propene; (CH3)2.CH.CH2.O.CH:CH.CH3
-------------------------------------------------------------------------------
```

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        dis non-aq 30°C 100%  U T H    K1=0.37        1968FKb (57846)2081
Medium:ethylene glycol. K1=0.55(10 C),0.46(20 C). DH(K1)=-15.5 kJ mol-1,
DS=-43.5 J K-1 mol-1
**************************************************************************
C7H14O                  L                     CAS 16969-31-6  (3734)
cis-1-Ethoxy-3-methylbut-1-ene; CH3.CH2.O.CH:CH.CH(CH3)2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        dis non-aq 30°C 100%  U T H    K1=0.54        1968FKb (57847)2082
Medium:ethylene glycol. K1=0.78(10 C),0.65(20 C). DH(K1)=-19.7 kJ mol-1,
DS=-53.9 J K-1 mol-1
**************************************************************************
C7H14O                  L                     CAS 23186-68-7  (3737)
trans-1-(2'-Methylpropoxy)propene; (CH3)2.CH.CH2.O.CH:CH.CH3
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        dis non-aq 30°C 100%  U T H    K1=-0.26       1968FKb (57848)2083
Medium:ethylene glycol. K1=-0.11(10 C),-0.22(20 C). DH(K1)=-11.7 kJ mol-1,
DS=-44.3 J K-1 mol-1
**************************************************************************
C7H14O                  L                     CAS 16969-18-9  (3735)
trans-1-Ethoxy-3-methylbut-1-ene; CH3.CH2.O.CH:CH.CH(CH3)2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        dis non-aq 30°C 100%  U T H    K1=-0.30       1968FKb (57849)2084
Medium:ethylene glycol. K1=-0.11(10 C),-0.23(20 C). DH(K1)=-14.6 kJ mol-1,
DS=-53.9 J K-1 mol-1
**************************************************************************
C7H14O2S               HL                     CAS 22683-44-9  (4457)
(Pentylthio)ethanoic acid; CH3.CH2.CH2.CH2.CH2.S.CH2.COOH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.10M U  I     K1=3.92   B2=6.95   1968PSb (57856)2085
In acetate buffer, I=0.2 M, K(Ag+HL)=3.15
**************************************************************************
C7H15N                  L                     CAS 108-49-6  (1648)
2,6-Dimethylpiperidine; C5H9N.(CH3)2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        cal KNO3   25°C 0.50M C   H                   1975EBa (57897)2086
DH(K1)=-24.4 kJ mol-1, DS(K1)=-5.9 J K-1 mol-1.
DH(B2)=-48.37, DS(B2)=-14.
--------------------------------------------------------------------------
```

```
Ag+        EMF KNO3   25°C 0.50M U        K1=3.93   B2=7.77   1973BBa (57898)2087
**************************************************************************
C7H15N                  L                      CAS 1484-80-6  (1647)
2-Ethylpiperidine; C5H10N.C2H5
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=3.84   B2=7.36   1973BBa (57900)2088
**************************************************************************
C7H15N                  L                      CAS 766-09-6  (4425)
N-Ethylpiperidine; C5H10N-C2H5
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.50M U        K1=3.12   B2=5.20   1973BBa (57904)2089
**************************************************************************
C7H15NS2                L                        (6802)
7-Methyl-1,4-dithia-7-azacyclononane;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  R4N.X  25°C 0.10M M        K1=7.66   B2=13.72  1990CKb (58012)2090
Medium: 0.1 M Me4NNO3
**************************************************************************
C7H16O2S2               L                      CAS 54278-31-8  (4462)
3,7-Dithianonan-1,9-diol; HO.CH2.CH2.S.CH2.CH2.CH2.S.CH2.CH2.OH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE KNO3   20°C  1.0M U   H                    1970WSa (58089)2091
DH(K1)=-53.1 kJ mol-1, DS=-79.1 J K-1 mol-1, DH(K2)=-43.5 kJ mol-1,
DS=-97.1 J K-1 mol-1. DH(AgL+Ag)=1.7 kJ mol-1, DS=51.5 J K-1 mol-1.  pH=3
**************************************************************************
C7H17NS                 L                      CAS 3492-79-3  (1222)
1-Diethylamino-3-thiabutane; (C2H5)2N.CH2.CH2.S.CH3
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M U        K1=4.88   B2=8.66   1977TGa (58182)2092
                                        B(2Ag+L)=6.16
                                        B(2Ag+2L)=11.23
                                        B(Ag+HL)=2.59
                                        B(Ag+HL+L)=7.00
B(Ag+2HL)=3.98
--------------------------------------------------------------------------
Ag+        cal KNO3   25°C 0.50M C   H                    1977TGc (58183)2093
DH(Ag+HL)=-27.3 kJ mol-1, DH(Ag+2HL)=-53.6 DH(Ag+HL+L)=-57.7,
DH(B2)=-63.72, DH(2Ag+2L)=-64.31, DH(2Ag+L)=-34.9.
**************************************************************************
C7H18N2                 L                      CAS 110-95-2  (2277)
```

N,N,N',N'-Tetramethyl-1,3-diaminopropane; (CH3)3N.CH2.CH2.CH2.N(CH3)3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	C	H	K1=1.67 B2= 2.83	2002CNa (58241)	2094

Method: Ag electrode. Medium: DMSO, 0.10 M Et4NClO4. By calorimetry, DH(K1)=-21.7 kJ mol-1, DS(K1)=-41 J K-1 mol-1; DH(B2)=-39.6, DS(B2)=-79.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	1.00M	C		K1=2.21 B(AgHL)=11.26	1994GYa (58242)	2095

****

C7H18N2S L Thiospermidine CAS 86108-46-5 (8300)

4-[(3-Aminopropyl)thio]-1-butanamine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	C		B2=8.72 K(Ag+H2L)=3.23 K(Ag+2H2L)=5.10 K(2Ag+2HL)=13.16 K(2Ag+HL+L)=14.98	1984SGe (58263)	2096

Additional method: Ag electrode. B(Ag2L2)=15.76, K(Ag+H2L+HL)=6.83, K(Ag+2HL)=7.67, K(Ag+HL+L)=8.56, B(Ag2L)=10.46.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	cal	KNO3	25°C	0.50M	C	H		1984STc (58264)	2097

DH(Ag+H2L)=-33.1 kJ mol-1, DS(Ag+H2L)=-49 J K-1 mol-1; DH(Ag+2H2L)=-66.9, DS(Ag+2H2L)=-127; DH(2Ag+2L)=-127.6, DS=-126; DH(B2)=-68.0, DS(B2)=-61.

****

C7H19N3 L CAS 105-84-0 (4429)

5-Methyl-2,5,8-triazanonane; CH3.NH.CH2.CH2.N(CH3).CH2.CH2.NH.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	NaNO3	25°C	1.3M	C		K1=5.18 B2= 7.38 B(AgHL)=13.52 B(AgHL2)=16.95 B(Ag2L2)=12.40 B(Ag3L2)=14.29	1983YMb (58323)	2098

Ag electrode. B(AgH-1L)=-6.67

****

C8H5N5O6 H3L Murexide (453)

Purpuric acid (Murexide is ammonium salt);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sp	alc/w	25°C	100%	U	I	K1=3.87	1987GKb (58467)	2099

Medium: MeOH. Also in DMF (K1=4.33)

****

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
--------------------------------------------------------------------------------
Ag+        dis NaClO4 25°C 0.10M U        K1=1.10        1973STa (58591)2100
********************************************************************************
C8H6                    L    Ethynylbenzene   CAS 536-74-3  (4471)
Phenylacetylene; C6H5.CCH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF NaNO3  25°C  1.0M U        K1=0.44        1973STd (58731)2101
********************************************************************************
C8H7NO2                 HL                          (296)
2-(Carboxyvinyl)pyridine; C5H4N.CH:CH.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U        K1=1.83   B2=3.6    1974ILa (59093)2102
********************************************************************************
C8H7NO4S                HL                       CAS 6375-65-1  (4563)
(2-Nitrophenylthio)ethanoic acid; O2N.C6H4.S.CH2.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE oth/un 20°C 0.10M U  I     K1=1.94        1968PRa (59150)2103
Acetate buffer. I=0.2, K(Ag+HL)=1.84
********************************************************************************
C8H7NO4S                HL                       CAS 3406-75-5  (4564)
(4-Nitrophenylthio)ethanoic acid; O2N.C6H4.S.CH2.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.10M U T      K1=1.86        1969BLc (59155)2104
Acetate buffer.
K1(1.2C)=2.13, K1(38.4C)=1.71, B2(1.2C)=3.6
--------------------------------------------------------------------------------
Ag+        ISE oth/un 20°C 0.10M U  I     K1=1.98        1968PRa (59156)2105
Acetate buffer. I=0.2, K(Ag+HL)=1.58
********************************************************************************
C8H7NO4Se               HL                          (4565)
(2-Nitrophenylseleno)ethanoic acid; O2N.C6H4.Se.CH2.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE oth/un 20°C 0.10M U  I     K1=2.66   B2=4.90   1968PSa (59158)2106
Acetate buffer. I=0.2, K(Ag+HL)=2.18
********************************************************************************
C8H7NO4Se               HL                          (4566)
(3-Nitrophenylseleno)ethanoic acid; O2N.C6H4.Se.CH2.COOH
--------------------------------------------------------------------------------
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.09	B2=5.60	1968PSa	(59160)2107

Acetate buffer. I=0.2, K(Ag+HL)=2.35

****

C8H7NO4Se HL (4567)

(4-Nitrophenylseleno)ethanoic acid; O2N.C6H4.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	T	K1=2.82	B2=5.15	1969BLc	(59162)2108

Acetate buffer.

K1(1.2C)=3.17, K1(38.6C)=2.6, B2(1.2C)=5.71, B2(38.6C)=5.00

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=2.89	B2=5.32	1968PSa	(59163)2109

Acetate buffer. I=0.2, K(Ag+HL)=2.26

****

C8H7O2BrS HL CAS 3406-76-6 (4560)

(4-Bromophenylthio)ethanoic acid; Br.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	T	K1=2.53	B2=4.56	1969BLc	(59194)2110

Acetate buffer.

K1(1.2C)=2.89, K1(38.3C)=2.35, B2(1.2C)=4.78, B2(38.3C)=4.48

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=2.61	B2=4.64	1968PRa	(59195)2111

Acetate buffer. I=0.2, K(Ag+HL)=2.21

****

C8H7O2BrSe HL CAS 78377-03-4 (4561)

(2-Bromophenylseleno)ethanoic acid; Br.C6H4.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.36	B2=6.28	1968PSa	(59197)2112

Acetate buffer. I=0.2, K(Ag+HL)=2.69

****

C8H7O2BrSe HL CAS 17893-52-6 (4562)

(4-Bromophenylseleno)ethanoic acid; Br.C6H4.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	T	K1=3.42	B2=6.01	1969BLc	(59199)2113

Acetate buffer.

K1(1.2C)=3.85, K1(38.4C)=3.21, B2(1.2C)=6.67, B2(38.4C)=5.80

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.49	B2=6.31	1968PSa	(59200)2114

Acetate buffer. I=0.2, K(Ag+HL)=2.73

****

C8H7O2ClS HL CAS 18619-18-6 (4554)

(2-Chlorophenylthio)ethanoic acid; Cl.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=2.49	B2=4.63	1968PRa	(59228)2115

Acetate buffer. I=0.2, K(Ag+HL)=1.87

****

C8H7O2ClS HL CAS 3996-38-1 (4555)

(3-Chlorophenylthio)ethanoic acid; Cl.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	T	K1=2.43	B2=4.28	1969BLc	(59230)2116

Acetate buffer

K1(2.1C)=2.78, K1(38.6C)=2.28, B2(2.1C)=4.80, B2(38.6C)=4.16

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=2.51	B2=4.57	1968PRa	(59231)2117

Acetate buffer. I=0.2, K(Ag+HL)=2.04

****

C8H7O2ClS HL CAS 3405-88-7 (4556)

(4-Chlorophenylthio)ethanoic acid; Cl.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	T	K1=2.57	B2=4.41	1969BLc	(59233)2118

Acetate buffer

K1(1.3C)=2.9, K1(39.7C)=2.38, B2=(1.3C)=4.83, B2(38.7C)=4.36

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=2.64	B2=4.70	1968PRa	(59234)2119

I= 0.2, K(Ag+HL)=2.07

****

C8H7O2ClSe HL (4557)

(2-Chlorophenylseleno)ethanoic acid; Cl.C6H4.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.27	B2=5.98	1968PSa	(59236)2120

Acetate buffer. I=0.2, K(Ag+HL)=2.57

****

C8H7O2ClSe HL (4558)

(3-Chlorophenylseleno)ethanoic acid; Cl.C6H4.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	T	K1=3.33	B2=5.64	1969BLc	(59238)2121

Acetate buffer.

K1(2.3C)=3.75, K1(38.7C)=3.10, B2(2.3C)=6.39, B2(38.7C)=5.57

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.39	B2=5.99	1968PSa	(59239)2122

Acetate buffer. I=0.2, K(Ag+HL)=2.67

****

C8H7O2ClSe HL (4559)
(4-Chlorophenylseleno)ethanoic acid; Cl.C6H4.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	T	K1=3.44	B2=5.90	1969BLc	(59241)2123

Acetate buffer. T=24.9C
K1(1.2C)=3.87, B2(1.2C)=6.53)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.50	B2=6.19	1968PSa	(59242)2124

Acetate buffer. I=0.2, K(Ag+HL)=2.75

****

C8H8 L Vinylbenzene CAS 100-42-5 (811)
Styrene; C6H5.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	nmr	non-aq	30°C	100%	U		K1=0.35		1973DBa	(59249)2125

Medium: CH3CN

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	alc/w	25°C	100%	U		K1=0.71		1973STd	(59250)2126

Medium: aq. EtOH, 1.0 M NaNO3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	KNO3	25°C	1.0M	U	T	K1=1.24	B2=1.19	1969INa	(59251)2127

K1(0 C)=1.56, K2(0 C)=0.08

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	dis	KNO3	25°C	1.0M	U		K1=1.28	B2=1.48	1968FKa	(59252)2128

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	dis	KNO3	25°C	1.0M	U		K1=1.26		1950AKa	(59253)2129

K(Ag+AgL)=-0.09

****

C8H8N2 L CAS 39965-81-6 (5519)
4-Cyano-2,6-dimethylpyridine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	NaNO3	25°C	0.50M	C		K1=1.56		1984ERa	(59303)2130

****

C8H8O HL Acetophenone CAS 98-86-2 (3187)
Acetophenone; C6H5.CO.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	KNO3	25°C	1.0M	U		K1=-0.27	B2=-1.23	1950AKa	(59417)2131

****

C8H8O L Phenoxyethene CAS 98-86-2 (3794)
Phenyl vinyl ether; C6H5.O.CH:CH2

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

---
Ag+ dis KNO3 25°C 1.0M U K1=0.72 B2=0.62 1968FKa (59418)2132
****
C8H8O2S HL CAS 103-04-8 (3223)
(Phenylthio)ethanoic acid; C6H5.S.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.10M U T K1=2.77 B2=4.86 1969BLc (59621)2133
In acetate buffer. K1(1.8 C)=3.10, K1(38.7 C)=2.59, B2(1.8 C)=5.10,
B2(38.7 C)=5.94

Ag+ ISE oth/un 20°C 0.10M U I K1=2.82 B2=4.77 1968PRa (59622)2134
In acetate buffer, I=0.2: K(Ag+HL)=2.29

Ag+ ISE NaNO3 20°C 1.0M U B2=7.27 1944LAa (59623)2135
****
C8H8O2S HL 2-Thenoylaceton CAS 3151-27-2 (3224)
2-Thenoylacetone, 1-(2'-Thienyl)butane-1,3-dione; C4H3S.CO.CH2.CO.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl diox/w 30°C 75% U K1=5.19 1967SUa (59635)2136
****
C8H8O2S HL CAS 13205-48-6 (4506)
4-(Methylthio)benzoic acid; CH3.S.C6H4.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.20M U K1=2.79 1968PSb (59651)2137
Acetate buffer
****
C8H8O2Se HL CAS 17893-46-8 (4507)
(Phenylseleno)ethanoic acid; C6H5.Se.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.10M U T K1=3.62 B2=6.10 1969BLc (59658)2138
Acetate buffer. K1(4 C)=3.99, K1(38.7 C)=3.39; B2(4 C)=6.95, B2(38.7 C)=5.94

Ag+ ISE oth/un 20°C 0.10M U I K1=3.70 B2=6.42 1968PSa (59659)2139
In acetate buffer, I=0.2: K(Ag+HL)=2.96
****
C8H8O3 HL Furoylacetone CAS 67748-89-4 (3192)
Furoylacetone; C4H3O.CO.CH2.CO.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl diox/w 30°C 75% U K1=7.61 1967SUa (60007)2140
****

C8H8O3 HL Phenoxyacetic CAS 122-59-8 (1153)
Phenoxyethanoic acid; C6H5.O.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.20M	U	T	K1=0.92		1969BLc	(60032)2141

K1(1.7 C)=1.01, K1(38.8 C)=0.91, acetate buffer

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.20M	U		K1=0.58		1968PSa	(60033)2142

C8H9N L CAS 17618-94-9 (300)
2-Allylpyridine; C5H4N.CH2.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	U		K1=2.97	B2=4.8	1974ILa	(60144)2143

C8H9NO2S HL CAS 104-18-7 (4575)
(4-Aminophenylthio)ethanoic acid; H2N.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.22	B2=5.60	1968PRa	(60368)2144

Acetate buffer. K(Ag+H2L)= 1.98

C8H10 L o-Xylene CAS 95-47-6 (3072)
1,2-Dimethylbenzene, 2-Xylene; CH3.C6H4.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	alc/w	25°C	50%	U		K1=0.16		1956OAa	(60674)2145

Medium: 50% MeOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	none	25°C	0.0	U		K1=0.46	B2=0.96	1949AKa	(60675)2146

C8H10 L m-Xylene CAS 108-38-3 (3073)
1,3-Dimethylbenzene, 3-Xylene; CH3.C6H4.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sp	non-aq	20°C	100%	U	T H	K1=6.07		1964TJa	(60677)2147

Medium: m-xylene, ClO4. K1=3.62(1.4 C); DH=18.8 kJ mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	alc/w	25°C	50%	U		K1=0.13		1956OAa	(60678)2148

Medium: 50% MeOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	none	25°C	0.0	U		K1=0.48	B2=0.99	1949AKa	(60679)2149

C8H10 L p-Xylene CAS 106-42-3 (2145)
1,4-Dimethylbenzene, 4-Xylene; CH3.C6H4.CH3

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--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sol none   25°C  0.0  U        K1=0.42   B2=0.94   1949AKa (60680)2150
********************************************************************************
C8H10                    L    Ethylbenzene     CAS 100-41-4  (3186)
Ethylbenzene; C6H5.CH2.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sol alc/w  25°C  50%  U        K1=0.01        1956OAa (60684)2151
Medium: 50% MeOH
********************************************************************************
C8H10N2O                 L    0-Tolylurea      CAS 614-77-7  (4583)
1-Methyl-2-(N-carbamyl)benzene; CH3.C6H4.NH.CO.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  82%  U        K1=9.31   B2=12.01  1979TBd (60708)2152
                                         B3=14.50
Medium: 82% v/v DMFA/H2O; 0.2 M KNO3
********************************************************************************
C8H10N2O               HL    Mandelamidine    CAS 700-63-0  (3825)
2-Hydroxy-2-phenylacetamidine; C6H5.CH(OH).C(:NH)NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U                         1970GSb (60713)2153
                                       K(Ag+HL)=4.40
                                       K(Ag+2HL)=9.32
                                       K(Ag(HL)2+OH)=5.02
********************************************************************************
C8H10N2S                 L                        (2598)
2-Tolylthiocarbamide; CH3.C6H4.NH.CS.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE mixed  25°C  82%  U        K1=8.95   B2=11.45  1979TBa (60771)2154
                                         B3=13.50
Medium: 82% formamide
********************************************************************************
C8H10O3S2              HL                        (3228)
4-(Ethylthio)benzenesulfonic acid; CH3.CH2.S.C6H4.SO3H
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 0.20M U        K1=2.59   B2=4.28   1958ACb (60841)2155
                                         K3=1.23
                                         K4=1.04
--------------------------------------------------------------------------------
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Ag+        ISE NaClO4 25°C 0.10M U        K1=2.62   B2=4.30   1957ACa (60842)2156
                                          K3=0.4
********************************************************************************
C8H11N                  L                      CAS 69376-33-6  (542)
2,4,6-Trimethylpyridine; C5H2N.(CH3)3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M U        B2=4.675       1987KLa (60939)2157
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  96%  U        K1=2.86   B2=5.76   1972MTb (60940)2158
Medium: 96% EtOH, 0.1 M NaClO4
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  50%  U        B2=4.75        1934LAb (60941)2159
Medium: 50 mole % EtOH
********************************************************************************
C8H11N                  L    2,4-Xylidine     CAS 95-78-3  (3803)
2,4-Dimethylaniline; (CH3)2.C6H3.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        K1=2.49   B2=3.71   1960ALa (60946)2160
                                          B3=3.99
Medium: EtOH
********************************************************************************
C8H11N                  L    2,6-Xylidine     CAS 87-62-7  (3200)
2,6-Dimethylaniline; H2N.C6H3(CH3)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  50%  U        K1=1.47   B2=2.80   1955ANc (60949)2161
Medium: 50 mole % EtOH
--------------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=1.62        1952GOa (60950)2162
                                          K(Ag+AgL)=0.4
********************************************************************************
C8H11N                  L                      CAS 622-39-9  (303)
2-(n-Propyl)pyridine; C5H4N.CH2.CH2.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.50M U   H    K1=2.12   B2= 4.11  1976BEb (60956)2163
Method: Ag electrode. By calorimetry, DH(K1)=-23.4 kJ mol-1,
DS(K1)=-37.7 J K-1 mol-1, DH(B2)=-40.7, DS(B2)=-57.87.
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U        K1=2.15   B2=4.45   1974ILa (60957)2164
********************************************************************************
C8H11N                  L    3,5-Xylidine     CAS 108-69-0  (3201)
3,5-Dimethylaniline; H2N.C6H3(CH3)2
--------------------------------------------------------------------------------
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=1.63        1952GOa (60968)2165
                                          K(Ag+AgL)=0.04
*************************************************************************
C8H11N                  L                     CAS 1122-81-2  (3802)
4-Propylpyridine; C5H4N.CH2.CH2.CH3
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  96%  U        K1=2.53   B2=4.92   1972MTb (60978)2166
Medium: 96% EtOH, 0.1 M NaClO4
*************************************************************************
C8H11N                  L                     CAS 104-90-5  (4480)
5-Ethyl-2-methylpyridine; CH3.C5H3N.CH2.CH3
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  96%  U        K1=2.57   B2=5.09   1972MTb (60982)2167
Medium: 96% EtOH, 0.1 M NaClO4
*************************************************************************
C8H11N                  L                     CAS 103-69-5  (3804)
N-Ethylaniline; C6H5.NH.CH2.CH3
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  96%  U        K1=1.95   B2=2.95   1961ALb (60985)2168
Medium: 96% EtOH, <0.01 M
*************************************************************************
C8H11N                  L    DiMethylaniline  CAS 121-69-7  (1343)
N-Phenyl-N,N-dimethylamine; C6H5.N(CH3)2
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  96%  U        K1=0.98        1961ALb (60987)2169
Medium: 96% EtOH, <0.01 M
*************************************************************************
C8H11NO                 L                     CAS 20819-02-5  (5524)
4-Methoxy-2,6-dimethylpyridine;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  NaNO3  25°C 0.50M C        K1=2.62        1984ERa (61031)2170
*************************************************************************
C8H11NO3S              HL                     CAS 121-58-4  (3241)
N,N-Dimethylsulfanilic acid; 4-(CH3)2N.C6H4.SO3H
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 0.10M U        K1=0.76   B2=1.36   1958ACb (61171)2171
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****
C8H12N2 H2L CAS 6971-57-9 (1099)
6-Methyl-2-(methylaminomethyl)pyridine; (CH3.NH.CH2)(CH3)C5H3N

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=3.588 B2=7.262 B(AgHL)=10.457 B(Ag2L)=5.37 B(Ag2L2)=10.660	1974GEa (61366)	2172

****
C8H12N2S L CAS 38585-75-0 (8242)
2-[(2-Pyridinylmethyl)thio]ethanamine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	C		K(Ag+H2L)=1.16 K(Ag+2H2L)=1.89 K(Ag+HL)=3.32 K(2Ag+2HL)=8.9	1983SGb (61537)	2173

Additional method: Ag ion selective electrode. K(2Ag+HL+L)=12.77, B(Ag2L2)=15.28, K(Ag+H2L+HL)=4.2, K(Ag+2HL)=6.53, B(Ag2L)=8.42.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	cal	KNO3	25°C	0.50M	C	H		1983SHe (61538)	2174

DH(Ag+H2L)=-20 kJ mol-1, DH(Ag+HL)=-31.8, DH(Ag+2HL)=-65.6, DH(Ag+HL+H2L)=-41, DH(2Ag+2HL)=-87.7, DH(2Ag+HL+L)=-115, DH(2Ag+2L)=-133.6
****
C8H12O2 HL CAS 874-23-7 (3203)
2-Acetylcyclohexanone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	diox/w 30%	25°C	75%	U		K1=6.52	1967SUa (61664)	2175

****
C8H12O4 H2L CAS 6018-58-3 (960)
Hex-1-ene-6-dioic acid; CH2:CH.CH2.CH2.CH2.CH(COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	M		K1=2.343	1975IPa (61725)	2176

Medium: K-acetate
****
C8H13N2 + L (4483)
3'-Aminopropylpyridinium cation

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=2.91 B2=6.01	1969PBa (61879)	2177

****

C8H14 L CAS 453-24-3 (3790)
1-Ethylcyclohexene; CH3.CH2.C6H9

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U		K1=0.11	1962GHa (61880)	2178

Medium: ethylene glycol, 1.77 M AgNO3

****

C8H14 L CAS 695-12-5 (3789)
Ethylidenecyclohexane; CH3.CH:C6H10

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	non-aq	30°C	100%	U		K1=0.48	1962GHa (61881)	2179

Medium: ethylene glycol, 1.77 M AgNO3

****

C8H14N4 L (4490)
1,5-Heptamethylenetetrazole;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.10M	U	I	B2=3.08	1969DPc (61969)	2180

I=0.4: B2=3.32

****

C8H14N4 L CAS 46002-63-5 (3210)
1-Cyclohexyl-5-methyl-1,2,3,4-tetrazole;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	non-aq	25°C	100%	U		B2=2.26	1959PHa (61970)	2181

medium: CH3CN

****

C8H14O4S H2L (141)
4,4'-Thiodibutanoic acid; HOOC.CH2.CH2.CH2.S.CH2.CH2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	NaClO4	25°C	3.0M	U		K1=4.53 B2= 7.52 B(AgHL)=9.70 B(AgH2L)=14.24 B(AgH2L2)=18.51 B(AgH4L2)=27.16	1985HIa (62105)	2182

Method: Ag/AgCl electrode.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	NaNO3	20°C	1.0M	U		K1=4 B2=7	1944LAa (62106)	2183

****

C8H14O4S2 H2L CAS 2906-60-7 (8435)
4,4'-Dithiodibutanoic acid;

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

```
------------------------------------------------------------------------------
Ag+        EMF NaClO4 25°C  3.0M U                      1985HIa (62107)2184
                                        B(AgHL)=8.28
                                        B(AgH2L)=12.80
Method: Ag/AgCl electrode.
******************************************************************************
C8H14O4S2             H2L                        (3233)
Tetramethylenedithiodiethanoic acid; HOOC.CH2.S.(CH2)4.S.CH2.COOH
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE NaNO3  20°C  1.0M U        K1=6.0    B2=8.3    1944LAa (62109)2185
******************************************************************************
C8H14O4S3             H2L                        (2526)
3,6,9-Trithiaundecanedioic acid; HOOC.CH2.S.C2H4.S.C2H4.S.CH2.COOH
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.20M U        K1=8.52        1971FPa (62118)2186
                                        B(Ag2L)=10.99
                                        B(Ag3L)=12.2
                                        K(Ag+HL)=5.47
                                        K(2Ag+HL)=7.48
Medium: acetate buffers at pH 1.5 and 5.95
******************************************************************************
C8H14O5S2             H2L                     CAS 4408-66-6  (8332)
Oxybis(ethylenethio)diethanoic acid;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.10M U        K1=4.53        1977CAc (62132)2187
******************************************************************************
C8H15NO4              H2L                     CAS 33994-68-7  (347)
N-Butyliminodiethanoic acid; C4H9.N(CH2.COOH)2
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.10M M        K1=4.36   B2=7.6    1975IPa (62186)2188
Medium: 0.10M K-acetate
******************************************************************************
C8H16N2O3S2            HL    SMC-SMC          CAS 28910-52-4  (734)
S-Methylcysteinyl-S-methylcysteine; H2N.CH(CH2.S.CH3)CO.NH.CH(CH2.S.CH3).COOH
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=6.19   B2=9.59   1984LPa (62450)2189
                                        B(AgHL)=11.53
                                        B(AgH2L)=14.75
                                        B(Ag2L2)=15.13
                                        B(Ag2HL2)=20.79
```

****
C8H16N2O4S2 H2L (4896)
2,9-Diamino-4,7-dithiadecane-1,10-dioic acid; HOOCCH(NH2)CH2SCH2CH2SCH2CH(NH2)COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	20°C	0.10M	U		K1=8.32		1975SSf	(62553)2190
							K(AgL+H)=6.05			

****
C8H16O2S HL CAS 22683-45-0 (4546)
(Hexylthio)ethanoic acid; CH3.CH2.CH2.CH2.CH2.CH2.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	I	K1=3.94	B2=7.10	1968PSb	(62623)2191

Acetate buffer. I=0.2, K(Ag+HL)=3.16
****
C8H16O2S L (5721)
2-Methyl-3-oxa-5-thianon-4-one; (CH3)2CH.O.CO.S.C4H9

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	alc/w	25°C	100%	U		K1=1.04	B2=1.61	1989MSa	(62624)2192

0.1 M NaClO4 in EtOH
****
C8H16O2S2 L CAS 294-95-1 (8604)
1,7-Dioxa-4,10-dithiacyclododecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	cal	non-aq	25°C	100%	C	H	K1=7.56	B2=12.85	1986BUe	(62625)2193

DH(K1)=-60.8 kJ mol-1, DS(K1)=-59.7 J K-1 mol-1; DH(K2)=ca. 0,
DS(K2)=ca. 101. Medium: MeOH.
****
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
Ag+	cal	non-aq	25°C	100%	C	H	K2=1.72		1992BCf	(62645)2194

Medium: MeOH. DH(K2)=-31.7 kJ mol-1, DS(K2)=-73.5 J K-1 mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	non-aq	25°C	100%	C		K1=3.98	B2=7.29	1989BPa	(62646)2195

Medium: anhydrous propylene carbonate, 0.1 M Et4NClO4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	alc/w	25°C	100%	C	H T	K1=1.61	B2=3.51	1987BUa	(62647)2196

Medium: MeOH. DH(K1)=-10.7 kJ mol-1;DS=-5.4 J K-1 mol-1; DH(B2)=-38.6;DS=-63

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	cal	non-aq	25°C	100%	C	H	K2=1.90		1986BUe	(62648)2197

DH(K1)=-10.7 kJ mol-1, DS(K1)=-5.4 J K-1 mol-1; DH(K2)=-27.9, DS(K2)=-57.4

Medium: MeOH.
****
C8H17N L CAS 10388-95-1 (1646)
2-Propylpiperidine; C5H10N.CH2.CH2.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 25°C 0.50M U K1=4.0 B2=7.52 1973BBa (62745)2198
****
C8H17NO3 L CAS 41775-76-2 (6751)
10-Aza-1,4,7-trioxacyclododecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF alc/w 25°C 100% C I K1=4.34 B2= 8.14 2003TCb (62756)2199
Medium: 100% MeOH. Also data for EtOH, DMSO, acetonitrile, propylene carbonate and nitromethane.

Ag+ EMF non-aq 25°C 100% C K1=3.73 B2= 6.80 1999THa (62757)2200
Medium: acetonitrile. Method: Ag/Ag+ electrode.

Ag+ EMF non-aq 25°C 100% U K1=3.24 B2= 5.98 1998HTb (62758)2201
Medium: DMSO. Method: Ag/Ag+ electrode
****
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
---
Ag+ ISE R4N.X 25°C 0.05M U H K1=11.47 B2=16.51 2002BSd (62836)2202
Method: Ag+ ISE. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-82.0 kJ mol-1, DS=-56.4 J K-1 mol-1; DH(K2)=-26.7, DS=6.4.

Ag+ cal non-aq 25°C 100% C H K1=6.514 B2= 9.52 1986BUe (62837)2203
DH(K1)=-31.9 kJ mol-1, DS(K1)=17 J K-1 mol-1; DH(K2)=-21.5, DS(K2)=-15.
Medium: MeOH.

Ag+ gl R4N.X 25°C 0.10M U K1=4.65 1985NSb (62838)2204
B(AgHL)=12.0
****
C8H18O2S2 L (4550)
3,8-Dithiadecan-1,10-diol; HO.CH2.CH2.S.(CH2)4.S.CH2.CH2.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 20°C 1.0M U H K1=5.07 B2=8.06 1970WSa (62974)2205
K(AgL+Ag)=2.47
DH(K1)=-51.0 kJ mol-1, DS=-77.4 J K-1 mol-1; DH(K2)=-28.9, DS=-40.6.
DH(AgL+Ag)=-8.4 kJ mol-1, DS=18.4 pH=3
****

C8H18O2S3 L CAS 14440-77-8 (4551)
3,6,9-Trithiaundecan-1,11-diol; (HO.CH2.CH2.S.CH2.CH2.)2S

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 20°C 1.0M U H K1=7.61 B2=11.64 1970WSa (62975)2206
K(AgL+Ag)=2.24
DH(K1)=-78.2 kJ mol-1, DS=-120.5 J K-1 mol-1; DH(K2)=-28.0, DS=-18.8;
DH(AgL+Ag)=-7.5 kJ mol-1, DS=17.2 pH=3
****
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
---
Ag+ ISE non-aq 25°C 100% C K1=2.83 B2=3.73 1989BPa (62977)2207
Medium: anhydrous propylene carbonate, 0.1 M Et4NClO4
****
C8H19N L t-Octylamine CAS 107-45-9 (3212)
1,1,3,3-Tetramethylbutylamine; (CH3)3C.CH2.C(CH3)2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 50% U K1=4.02 B2=8.16 1955ANc (63010)2208
Medium: 50 mole% EtOH
****
C8H19N L (3810)
Bis(2-methylpropyl)amine, di-isobutylamine; (CH3.CH(CH3).CH2)2NH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ oth non-aq ? 100% U B2=8.8 1965MMa (63011)2209
Method: coulometric titration. Medium: acetone, 0.1 M NaClO4
****
C8H19N L CAS 111-92-2 (3211)
Di-s-butylamine; CH3.CH2.(CH3)CH.NH.CH(CH3).CH2.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 50% U K1=3.38 B2=6.32 1955ANc (63014)2210
Medium: 50 mole% EtOH
****
C8H19N L CAS 111-92-2 (849)
Dibutylamine, 5-azanonane; (C4H9)2NH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C I K1=3.26 B2= 5.94 1999THa (63018)2211
Medium: acetonitrile. Method: Ag/Ag+ electrode.
Also data for medium: DMSO

Ag+ ISE non-aq 25°C 100% C H K1=2.66 B2=5.16 1987CBa (63019)2212
DH1= -31.80 kJ mol-1, DH(K2) = -29.80, DS1= -56.0, DS(K2) = -51.5.
Ag/AgCl electrode in DMSO

Ag+ oth non-aq ? 100% U B2=10.18 1965MMa (63020)2213
Method: coulometric titration. Medium: acetone, 0.1 M NaClO4

Ag+ gl alc/w 25°C 50% U K1=3.14 B2=6.56 1955ANc (63021)2214
Medium: 50 mole% EtOH
****
C8H19NO L CAS 96-80-0 (2664)
2-Di(isopropyl)aminoethanol; ((CH3)2CH)2N.CH2.CH2.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 20°C 0.0 U B2=3.84 1961ALa (63027)2215
By glass electrode: B2=4.07
****
C8H19O2PS2 HL CAS 2253-44-3 (2060)
O,O'-Dibutyl dithiophosphoric acid; (C4H9O)2P(S)SH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 90% U B2=15.62 1971TCa (63151)2216
Medium: 90% EtOH, 0.3 M NaClO4
****
C8H19O2PS2 HL CAS 2253-52-3 (4584)
O,O-Di-isobutyl phosphorodithioic acid; ((CH3)2.CH.CH2O)2P(S)SH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 90% U B2=15.52 1971TCa (63164)2217
Medium: 90% EtOH, 0.3 M NaClO4
****
C8H20N2 L CAS 373-44-4 (5746)
1,8-Diaminooctane; NH2.(CH2)8.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% U H K1=6.93 1985BUb (63212)2218
Medium: MeOH, 0.05M Et4NClO4. DH=-47.2 kJ mol-1
****
C8H20N2O3 L (5747)
1,11-Diamino-3,6,9-trioxaundecane; NH2.C2H4.O.C2H4.O.C2H4.O.C2H4.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE R4N.X 25°C 0.05M U H K1=14.58 2002BSd (63227)2219
Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M

Et4NClO4. By calorimetry: DH(K1)=-102.6 kJ mol-1, DS(K1)=-66.4 J K-1 mol-1

Ag+ ISE alc/w 25°C 100% U H K1=8.55 1985BUb (63228)2220
Medium: MeOH, 0.05M Et4NClO4. DH=-58.4 kJ mol-1
****
C8H20N2S L CAS 86108-47-6 (8373)
1,9-Diamino-5-thianonane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.50M C 1984SGe (63238)2221
K(Ag+H2L)=3.53
K(Ag+2H2L)=5.85
Additional method: Ag electrode.

Ag+ cal KNO3 25°C 0.50M C H 1984STc (63239)2222
DH(Ag+H2L)=-34.3 kJ mol-1, DS(Ag+H2L)=-47 J K-1 mol-1; DH(Ag+2H2L)=-69.9, DS(Ag+2H2L)=-123.
****
C8H20N2S3 L CAS 64691-71-0 (5748)
1,11-Diamino-3,6,9-trithiaundecane; NH2-C2H4.S.C2H4.S.C2H4.S.C2H4.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% U H K1=10.97 1985BUb (63247)2223
Medium: MeOH, 0.05M Et4NClO4. DH=-77.8 kJ mol-1
****
C8H20N4 L Cyclen CAS 294-90-6 (10)
1,4,7,10-Tetraazacyclododecane; cyclo(-(NH.CH2.CH2.)4-)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% U I K1=9.43 1996WPa (63276)2224
Medium: acetonitrile, 0.05 M NEt4ClO4. In propylene carbonate K1=11.3; in dimethylformamide K1=9.1
****
C8H21N3 L (1068)
2,8-Dimethyl-2,5,8-triazanonane; CH3.N(CH3).CH2.CH2.NH.CH2.CH2.N(CH3).CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE NaNO3 25°C 1.30M C K1=4.14 B2=7.74 1984YMa (63317)2225
B(AgH2L)=18.81, B(AgHL)=12.59
B(AgH2L2)=24.15,B(AgHL2)=15.81
B(Ag2L2)=10.89
B(Ag3L2)=12.35, B(AgLOH)=-6.12
Measured using glass and Ag electrodes
****
C8H22N4 L CAS 41240-14-6 (4494)
1,5,8,12-Tetraazadodecane; NH2.(CH2)3.NH.(CH2)2.NH.(CH2)3.NH2

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C   H    K1=7.93   B2=9.72   1990CBd (63399)2226
                                         B(Ag2L)=11.20
                                         B(Ag2L2)=17.66
                                         B(Ag3L2)=22.90
Medium: DMSO,0.1 M R4NX. By calorimetry:DH(K1)=-77 kJ mol-1,DS=106 J K-1 m-1
DH(B2)=-88, DS=109; DH(Ag2L)=-114; DH(Ag2L2)=-162; DH(Ag3L2)=-224
********************************************************************************
C8H23N5                 L    Tetren          CAS 112-57-2  (715)
1,4,7,10,13-Pentaazatridecane (Tetraethylenepentamine);
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U   H    K1=10.45       1997BTa (63451)2227
                                         B(Ag2L)=13.71
                                         B(Ag3L2)=26.4
Medium: DMSO, 0.1 M Et4NClO4. DH(K1)=-87.5 kJ mol-1, DS=-94; DH(Ag2L)=120.1,
DS=140; DH(Ag3L2)=245, DS=316
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U   H    K1=10.59       1985BUb (63452)2228
Medium: MeOH, 0.05M Et4NClO4. DH=-81.5 kJ mol-1
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.10M U        K1=7.4         1973HTc (63453)2229
                                         B(AgHL)=8.8
                                         B(AgH2L)=15.8
                                         B(AgH3L)=21.3
********************************************************************************
C9H6NO4IS             H2L    Ferron          CAS 547-91-1  (275)
7-Iodo-8-hydroxyquinoline-5-sulfonic acid; (HO)(HO3S)C9H4NI
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=7.35        1985ZHa (63761)2230
********************************************************************************
C9H6N2O3               HL                   CAS 5437-99-0  (3865)
5-Nitro-8-hydroxyquinoline;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  diox/w 25°C  60%  U        K1=4.82        1973SCd (63857)2231
Medium: 60% dioxan, 0.1 M NaClO4
********************************************************************************
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
--------------------------------------------------------------------------------
Ag+        EMF NaClO4 32°C 0.01M C  I     K1=3.66        1995MBc (63902)2232
```

Method: Ag electrode. Data for dioxane/H2O mixtures: K1=3.86 (20% dioxane) K1=4.35 (30% dioxane), K1=4.52 (40% dioxane), K1=4.60 (50% dioxane).

Ag+ EMF oth/un 40°C ? U K1=3.54 1972PBf (63903)2233

****

C9H7N L CAS 119-65-3 (487)
Isoquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sp	alc/w	20°C	100%	U		B2=4.05	1958PPa	(64021)2234

Medium: EtOH

Ag+	sp	non-aq	20°C	100%	U		B2=5.27	1958PPa	(64022)2235

Medium: CH3CN

Ag+	ISE	alc/w	25°C	59%	U		B2=3.89	1952FYb	(64023)2236

Medium: 59% w/w EtOH

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	25°C	50%	U		B2=3.96	1980BTb	(64043)2237

Ag+	sp	alc/w	20°C	100%	U		B2=4.78	1958PPa	(64044)2238

Medium: EtOH

Ag+	sp	non-aq	20°C	100%	U		K2=5.12	1958PPa	(64045)2239

Medium: CH3CN

Ag+	gl	alc/w	25°C	50%	U		K1=1.79 B2=3.74	1955ANc	(64046)2240

Medium: 50 mol% EtOH

Ag+	ISE	alc/w	25°C	59%	U		B2=4.10	1952FYb	(64047)2241

Medium 59% w/w EtOH

Ag+	ISE	alc/w	25°C	50%	U		B2=3.67	1934LAb	(64048)2242

Medium: 50 mol% EtOH

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	diox/w	25°C	60%	U		K1=6.06	1973SCd	(64190)2243

Medium: 60% dioxan, 0.1 M NaClO4

Ag+	dis	NaClO4	22°C	0.10M	U		K1=5.20 B2=9.56	1965HAa	(64191)2244

****
C9H7NO2S HL CAS 17893-44-6 (4672)
(4-Cyanophenylthio)ethanoic acid; NC.C6H4.S.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 20°C 0.10M U I K1=2.09 B2=3.8 1968PRa (64417)2245
Acetate buffer. I=0.2, K(Ag+HL)=1.68
****
C9H7NS HL Quinolinethiol CAS 491-33-8 (1028)
8-Mercaptoquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% U K1=13.8 B2=18.2 1984UBa (64640)2246
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a

Ag+ EMF non-aq 25°C 100% U K1=13.8 B2=18.20 1983UBa (64641)2247
Medium: DMF, 0.1 M LiClO4
****
C9H7O2F3S HL CAS 102687-63-6 (4674)
(3-Trifluoromethylphenylthio)ethanoic acid; F3C.C6H4.S.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 20°C 0.10M U I K1=2.42 B2=4.0 1968PRa (64744)2248
Acetate buffer. I=0.2, K(Ag+HL)=1.76
****
C9H8 L Indene CAS 95-13-6 (4589)
Indene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ nmr oth/un 30°C 100% U K1=0.20 1973DBa (64745)2249

Ag+ sol KNO3 25°C 0.10M U K1=0.93 B2=0.88 1969INa (64746)2250
****
C9H8O4S H2L CAS 135-13-7 (4620)
(2-Carboxyphenylthio)ethanoic acid; HOOC.C6H4.S.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 20°C 0.10M C K1=3.13 1968PRa (65001)2251
Medium: acetate buffer. K(Ag+H2L)=1.77, I=0.2
****
C9H8O4S H2L CAS 18619-33-5 (4621)
(3-Carboxyphenylthio)ethanoic acid; HOOC.C6H4.S.CH2.COOH

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

Ag+ ISE oth/un 20°C 0.10M C K1=2.90 B2=5.1 1968PRa (65005)2252
Medium: acetate buffer. K(Ag+H2L)=1.94, I=0.2
****
C9H8O4S H2L CAS 18619-34-6 (4622)
(4-Carboxyphenylthio)ethanoic acid; HOOC.C6H4.S.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 20°C 0.10M C K1=2.80 B2=5.32 1968PRa (65007)2253
Medium: acetate buffer. K(Ag+H2L)=2.47, I=0.2
****
C9H8O4Se H2L CAS 39857-38-0 (4623)
(4-Carboxyphenylseleno)ethanoic acid; HOOC.C6H4.Se.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 20°C 0.10M C K1=3.52 B2=6.02 1968PSa (65009)2254
Medium: acetate buffer. K(Ag+H2L)=2.8, I=0.2
****
C9H10 L CAS 98-83-9 (4590)
alpha-Methylstyrene; C6H5.C(CH3):CH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 1.0M U T K1=0.91 B2=0.91 1969INa (65169)2255
0 C: K1=1.35, K2=0.04
****
C9H10 L CAS 766-90-5 (806)
cis-beta-Methylstyrene; C6H5.CH:CH.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 1.0M U T K1=0.87 B2=0.87 1969INa (65170)2256
0 C: K1=1.14, K2=0.15
****
C9H10 L CAS 873-66-5 (807)
trans-beta-Methylstyrene; C6H5.CH:CH.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 1.0M U T K1=0.73 B2=0.63 1969INa (65172)2257
0 C: K1=1.01, K2=0.34
****
C9H10NOClS L CAS 25092-90-4 (7032)
(N-3-Chlorophenyl)-ethylthiolurethane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ kin NaClO4 25°C 0.50M U T H K1=0.36 1993SSd (65174)2258
K(AgL=AgH-1L+H)=-1.36

DH(K1)=-17 kJ mol-1, DS=23 J K-1 mol-1. Also K at 13.8, 37.9, 51C. For N-3-methoxyphenyl- K1=1.40 at 25C (also at I=0.03-0.31 M); for N-phenyl- K1=0.97

****

C9H10N2O2S L CAS 622-97-9 (2600)
1-Phenyl-4,5-dihydroxyimidazolidine-2-thione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	mixed	25°C	82%	U		K1=7.60 B3=11.87	B2=10.40	1979TBa	(65241)2259

Medium: 82% formamide

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	mixed	25°C	82%	U		K1=5.85	B2=10.89	1979TBd	(65242)2260

Medium: 82% v/v DMFA/H2O; 0.2M KNO3

****

C9H10O2 L Ethylbenzoate CAS 93-89-0 (3249)
Ethylbenzoate; C6H5.CO.OC2H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	oth/un	25°C	?	U		K1=-0.25	B2=-0.92	1950AKa	(65383)2261

****

C9H10O2S HL CAS 18619-15-3 (4629)
(2-Tolylthio)ethanoic acid; CH3.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=2.73	B2=4.80	1968PRa	(65385)2262

Acetate buffer. I=0.2: K(Ag+HL)=2.16

****

C9H10O2S HL CAS 3996-30-3 (4630)
(3-Tolylthio)ethanoic acid; CH3.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=2.86	B2=5.06	1968PRa	(65387)2263

Acetate buffer. I=0.2: K(Ag+HL)=2.30

****

C9H10O2S HL CAS 3996-29-0 (4631)
(4-Tolylthio)ethanoic acid; CH3.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	T	K1=2.91	B2=4.95	1969BLc	(65391)2264

Acetate buffer. 1.3-38.6 C
K1(1.3C)=3.29, K1(38.6C)=2.72, B2(1.3C)=5.64, B2(38.6C)=4.82

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=2.98	B2=5.30	1968PRa	(65392)2265

Acetate buffer. I=0.2: K(Ag+HL)=2.34

****

C9H10O2S HL CAS 103-46-8 (3266)
(Benzylthio)ethanoic acid; C6H5.CH2.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	I	K1=3.67	B2=6.76	1968PSb (65399)	2266

Acetate buffer. I=0.2, K(Ag+HL)=2.92

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	NaNO3	20°C	1.0M	U		B2=7.13		1944LAa (65400)	2267

****

C9H10O2S HL CAS 13205-49-7 (4628)
4-(Ethylthio)benzoic acid; C2H5.S.C6H4.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.20M	U		K1=2.82	1968PSb (65412)	2268

Acetate buffer.

****

C9H10O2SSe HL (4679)
(2-Methylthiophenylseleno)ethanoic acid; CH3.S.C6H4.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=4.56	B2=8.30	1968PSa (65414)	2269

Acetate buffer. I=0.2, K(Ag+HL)=3.86

****

C9H10O2S2 HL CAS 83167-33-3 (4632)
(2-Methylthiophenylthio)ethanoic acid; CH3.S.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.95	B2=7.15	1968PRa (65416)	2270

Acetate buffer. I=0.2: K(Ag+HL)=3.14

****

C9H10O2Se HL CAS 19188-12-6 (4633)
(2-Tolylseleno)ethanoic acid; CH3.C6H4.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.53	B2=6.37	1968PSa (65418)	2271

Acetate buffer. I=0.2: K(Ag+HL)=2.77

****

C9H10O2Se HL (4634)
(3-Tolylseleno)ethanoic acid; CH3.C6H4.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.74	B2=6.64	1968PSa (65420)	2272

Acetate buffer. I=0.2: K(Ag+HL)=2.99

****

C9H10O2Se HL (4635)
(4-Tolylseleno)ethanoic acid; CH3.C6H4.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	T	K1=3.73 B2=6.54	1969BLc	(65422)2273

Acetate buffer. 1.6-38.5 C
K1(1.6C)=4.19, K1(38.5C)=3.50, B2(1.6C)=7.23, B2(38.5C)=6.24

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.82 B2=6.72	1968PSa	(65423)2274

Acetate buffer. I=0.2: K(Ag+HL)=3.02

****

C9H10O3S HL CAS 18619-21-2 (4637)
(2-Methoxyphenylthio)ethanoic acid; CH3O.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.02 B2=6.19	1968PRa	(65497)2275

Acetate buffer. I=0.2: K(Ag+HL)=2.75

****

C9H10O3S HL CAS 3996-32-5 (4638)
(3-Methoxyphenylthio)ethanoic acid; CH3O.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	T	K1=2.65 B2=4.60	1969BLc	(65505)2276

Acetate buffer. 1.3-38.6 C
K1(1.3C)=2.99, K1(38.6C)=2.45, B2(1.3C)=5.22, B2(38.6C)=4.54

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=2.73 B2=4.90	1968PRa	(65506)2277

Acetate buffer. I=0.2: K(Ag+HL)=2.12

****

C9H10O3S HL CAS 3406-77-7 (4639)
(4-Methoxyphenylthio)ethanoic acid; CH3O.C6H4.S.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.10M	U	T	K1=2.97 B2=5.24	1969BLc	(65511)2278

Acetate buffer. 1.3-38.4 C
K1(1.3C)=3.37, K1(38.4C)=2.76, B2(1.3C)=5.87, B2(38.4C)=5.04

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.07 B2=5.49	1968PRa	(65512)2279

Acetate buffer. I=0.2: K(Ag+HL)=2.45

****

C9H10O3Se HL (4640)
(2-Methoxyphenylseleno)ethanoic acid; CH3O.C6H4.Se.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	20°C	0.10M	U	I	K1=3.72 B2=6.83	1968PSa	(65519)2280

Acetate buffer. I=0.2: K(Ag+HL)=3.02
****
C9H10O3Se HL (4641)
(3-Methoxyphenylseleno)ethanoic acid; CH3O.C6H4.Se.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 20°C 0.10M U K1=3.61 B2=6.53 1968PSa (65524)2281
K(Ag+HL)=2.90
Acetate buffer
****
C9H10O3Se HL (4642)
(4-Methoxyphenylseleno)ethanoic acid; CH3O.C6H4.Se.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.10M U T K1=3.75 B2=6.68 1969BLc (65526)2282
Acetate buffer. 1.2-38.3 C
K1(1.2C)=4.23, K1(38.3C)=3.49, B2(1.2C)=7.38, B2(38.3C)=6.51

Ag+ ISE oth/un 20°C 0.10M U I K1=3.84 B2=6.79 1968PSa (65527)2283
Acetate buffer. I=0.2: K(Ag+HL)=3.07
****
C9H11N L CAS 2294-75-9 (301)
2-(But-3-enyl)pyridine;C5H4N.CH2.CH2.CH:CH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M U K1=2.72 B2=4.5 1974ILa (65659)2284
****
C9H11NO2 HL Phenylalanine CAS 63-91-2 (2)
2-Amino-3-phenylpropanoic acid; H2N.CH(CH2.C6H5)COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF KNO3 25°C 0.10M C T H K1=4.3 1981SBe (65890)2285
K(AgL+H)=6.2
K(AgHL+H)=2.4
Method: Ag/Ag+ electrode. Data for 25-45C. DH(K1)=58.9 kJ mol-1.

Ag+ ISE oth/un 25°C 0.60M U K1=5.30 B2=7.8 1967AMb (65891)2286
****
C9H11NO2 HL B-Phenylalanine CAS 614-19-7 (187)
3-Amino-3-phenyl-propanoic acid; H2N.CH(C6H5).CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl oth/un 30°C 0.10M U K1=5.72 B2=8.42 1981PUa (66005)2287
****
C9H11NO3 H2L Tyrosine CAS 60-18-4 (4)

2-Amino-3-(4-hydroxyphenyl)propanoic acid; HO.C6H4.CH2.CH(NH2).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	oth/un	30°C	0.10M	U		K1=5.70 B2=8.30	1981PUa (66191)	2288

****

C9H11NO4S2 H3L CAS 97512-83-9 (1330)
N-Benzenesulfonyl-L-cysteine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	diox/w	29°C	50%	M		K1=10.65 *K(AgH2L)=-5.20 *K(AgHL)=-10.65 K(Ag+H3L=AgH2L+H)=0.26	1981MUb (66440)	2289

Medium: 50% v/v dioxane/H2O, 0.5 M NaClO4.

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	20°C	0.10M	U		K1=3.92	1963IFa (66447)	2290

****

C9H12 L Pseudocumene CAS 95-63-6 (3244)
1,2,4-Trimethylbenzene; C6H3(CH3)3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	alc/w	25°C	50%	U		K1=0.12	1956OAa (66539)	2291

Medium: 50 mol% MeOH, 0.5 M NaNO3

****

C9H12 L Mesitylene CAS 108-67-8 (3242)
1,3,5-Trimethylbenzene; C6H3(CH3)3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	alc/w	25°C	50%	U	T H	K1=-0.10	1956OAa (66540)	2292

Medium: 50 mol% MeOH, 0.5 M NaNO3. K1=0.09(1.6C); DS=-43 J K-1 mol-1.
In aqueous soln. K1=0.19; DH(K1)=12.3, DS=-43

****

C9H12 L Cumene CAS 98-82-8 (1177)
Isopropylbenzene, 2-Phenylpropane; C6H5.CH(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	alc/w	25°C	50%	U		K1=0.01	1956OAa (66542)	2293

Medium: 50 mol% MeOH, 0.5 M NaNO3

****

C9H12 L n-Propylbenzene CAS 103-65-1 (3243)

Propylbenzene; C6H5.CH2.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	KNO3	25°C	1.0M	U		K1=0.46	1950AKa	(66544)2294

****

C9H12N2O HL Atrolactamidine CAS 27906-16-1 (3878)
2-Hydroxy-2-phenylpropanoylamidine; C6H5.C(OH)(CH3)C(:NH)NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	U			1970GSb	(66557)2295
							K(Ag+HL)=4.16		
							K(Ag+2HL)=8.86		
							K(Ag(HL)2+OH)=3.90		

****

C9H13N L CAS 609-72-3 (3861)
2-N,N-Trimethylaniline; CH3.C6H4.N(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	25°C	96%	U		K1=1.01	1961ALb	(66773)2296

Medium: 96% EtOH, <0.01 M

****

C9H13N L Cumidine CAS 99-88-7 (3251)
4-Isopropylaniline; (CH3)2.CH.C6H4.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	20°C	50%	U		B2=3.69	1934LAb	(66776)2297

Medium: 50 mol% EtOH

****

C9H13N5O L CAS 29767-70-2 (8165)
9-(1-Ethoxyethyl)adenine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	kin	NaClO4	40°C	0.01M	C			1981LOa	(67104)2298
							K(Ag+HL)=0.78		

Medium: 0.0025 M HClO4

****

C9H14N2S L CAS 80191-93-1 (8262)
2-[[2-(2-Pyridinyl)ethyl)thio]ethanamine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	C			1983SGb	(67165)2299
							K(Ag+H2L)=1.94		
							K(Ag+2H2L)=2.51		
							K(Ag+HL)=3.15		

K(2Ag+2HL)=8.50
Additional method: Ag ion selective electrode. K(2Ag+HL+L)=12.37, B(Ag2L2)
=15.16, K(Ag+H2L+HL)=4.6, K(Ag+2HL)=5.70, K(2Ag+HL)=3.9, B(Ag2L)=8.66.

Ag+ cal KNO3 25°C 0.50M C H 1983SHe (67166)2300
DH(Ag+H2L)=-27 kJ mol-1, DH(Ag+2H2L)=-49, DH(Ag+HL)=-29, DH(Ag+2HL)=-60.5,
DH(Ag+HL+H2L)=-59, DH(2Ag+2HL)=-93.7, DH(2Ag+HL+L)=-115.8, DH(2Ag+2L)=-134
****
C9H14N2S L CAS 80191-92-0 (352)
3-[(2-Pyridinylmethyl)thio]-1-propanamine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.50M C 1983SGb (67169)2301
K(Ag+H2L)=1.83
K(Ag+2H2L)=2.63
K(Ag+HL)=3.81
K(2Ag+2HL)=10.3
Additional method: Ag ion selective electrode. K(2Ag+HL+L)=13.18, B(Ag2L2)
=15.12, K(Ag+H2L+HL)=5.4, K(Ag+2HL)=7.44, K(2Ag+HL)=4.71, B(Ag2L)=8.72

Ag+ cal KNO3 25°C 0.50M C H 1983SHe (67170)2302
DH(Ag+H2L)=-24 kJ mol-1, DH(Ag+2H2L)=-46, DH(Ag+HL)=-37, DH(Ag+2HL)=-68.6,
DH(Ag+HL+H2L)=-66, DH(2Ag+2HL)=-100, DH(2Ag+HL+L)=-121, DH(2Ag+2L)=-127.4
****
C9H14O2 L CAS 86616-78-6 (4603)
2-Acetylcycloheptanone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl diox/w 30°C 75% U K1=6.67 1967SUa (67361)2303
****
C9H15N2+ (4604)
4'-Aminobutylpyridinium cation
L+

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.50M U K1=3.24 B2=6.61 1969PBa (67598)2304
****
C9H16 L CAS 2539-75-5 (3851)
1-(2'-Propyl)cyclohexene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis non-aq 30°C 100% U K1=0.02 1962GHa (67601)2305
Medium: ethylene glycol, 1.77 M AgNO3. Method: gas chromatography
****
C9H16O4S2 H2L CAS 32386-31-5 (3273)
Pentamethylenedithiodiethanoic acid; HOOC.CH2.S(CH2)5.S.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE NaNO3 20°C 1.0M U K1=6.3 B2=8.9 1944LAa (67801)2306
****
C9H17N L CAS 2051-28-7 (3256)
Decahydroquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 50% U K1=3.57 B2=7.04 1955ANc (67803)2307
Medium: 50 mol% EtOH
****
C9H18N2O3S2 HL D-Met-SMC CAS 95657-16-2 (731)
D-Methionyl-S-methylcysteine; H2N.CH(CH2.CH2.S.CH3).CO.NH.CH(CH2.S.CH3).COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M C K1=5.77 B2=8.61 1984LPa (67920)2308
B(AgHL)=12.40
B(AgH2L)=17.1
B(Ag2L2)=14.45
B(Ag2HL2)=21.07
****
C9H18N2O3S2 HL Met-SMC CAS 95657-15-1 (730)
Methionyl-S-methylcysteine; H2N.CH(CH2.CH2.S.CH3).CO.NH.CH(CH2.S.CH3).COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M C K1=5.72 B2=8.1 1984LPa (67923)2309
B(AgHL)=12.05
B(AgH2L)=16.61
B(Ag2L2)=14.19
B(Ag2HL2)=20.84
****
C9H18N2O3S2 HL SMC-D-Met CAS 95657-18-4 (733)
S-Methylcysteinyl-D-methionine; H2N.CH(CH2.S.CH3)CO.NH.CH(CH2.CH2.S.CH3).COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M C K1=5.86 B2=9.40 1984LPa (67925)2310
B(AgHL)=11.76
B(AgH2L)=15.51
B(Ag2L2)=14.74
B(Ag2HL2)=20.66
****
C9H18N2O3S2 HL SMC-L-Met CAS 95657-17-3 (732)
S-Methylcysteinyl-L-methionine; H2N.CH(CH2.S.CH3)CO.NH.CH(CH2.CH2.S.CH3).COOH

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

```
------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=6.01   B2=9.66   1984LPa (67929)2311
                                          B(AgHL)=11.02
                                          B(AgH2L)=14.55
                                          B(Ag2L2)=14.81
                                          B(Ag2HL2)=20.19
******************************************************************************
C9H18N2O4S2           H2L                     CAS 50727-79-2  (7201)
1,2-Dimercaptopropane-S,S'-bis(3-(2-amino)propanoic
acid);HOOCCH(NH2)CH2SCH2CH(CH3)SCH2CH(NH2)COO
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.10M U        K1=9.05        1975SSf (67944)2312
                                          K(AgL)=5.95
******************************************************************************
C9H18N2O5S2           H2L                     CAS 50727-81-6  (7202)
1,2-Dimercaptopropanol-2-S,S'-bis(3-(2-amino)propanoic
acid);HOOCCH(NH2)CH2SCH(CH3)CH(OH)SCH2CH(N
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.10M U        K1=8.97        1975SSf (67946)2313
                                          K(AgL+H)=5.97
******************************************************************************
C9H20N2S2               L                       (7058)
7-Methyl-1,4-dithia-7,10-diazacyclododecane;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M M        K1=10.95  B2=14.11  1995RKa (68070)2314
                                          B(AgHL)=14.40
                                          B(AgH2L)=16.4
                                          B(AgHL2)=22.65
******************************************************************************
C9H20O2S2               L                     CAS 78011-02-6  (4661)
3,9-Dithiaundecan-1,11-diol; (HO.CH2.CH2.S.CH2.CH2)2CH2
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE KNO3   20°C  1.0M U   H                  1970WSa (68119)2315
At pH3. DH1=-56.9 kJ mol-1, DS1=-82.4 J K-1 mol-1, DH2=-38.9, DS2=-86.9
DH(AgL+Ag)=-14.5, DS=-6.3
******************************************************************************
C9H21NO3                L                     CAS 122-20-3  (946)
Tri-isopropanolamine; (CH3.CH(OH).CH2)3N
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        gl  oth/un 20°C  0.0  U        K1=2.30   B2=4.27   1964AKa (68142)2316
```

By solubility: B2=4.27

****

C9H21NS L (1223)

1-Diisopropylaminoethyl-methylsulfide; ((CH3)2CH)2N.CH2.CH2.S.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.50M	U		K1=4.33	B2=7.62	1977TGa	(68146)2317
							B(2Ag+L)=6.25			
							B(Ag+HL)=2.61			
							B(Ag+HL+L)=6.31			
							B(Ag+2HL)=4.40			
Ag+	cal	KNO3	25°C	0.50M	C	H			1977TGc	(68147)2318

DH(Ag+HL)=-29.5 kJ mol-1, DH(Ag+2HL)=-44.18.

****

C9H23N3 L CAS 3030-47-5 (4605)

N,N,N',N",N"-Pentamethyl-diethylenetriamine; (CH3)2NCH2CH2N(CH3)CH2CH2N(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	NaNO3	25°C	1.3M	C		K1=4.67	B2= 6.50	1983YMb	(68276)2319
							B(AgHL)=12.10			
							B(AgH2L2)=24.04			
							B(Ag2L2)=9.940			
							B(Ag3L2)=12.10			

Ag electrode. B(AgH-1L)=-6.59

****

C10H7NOS2 HL CAS 5806-42-6 (3921)

5-Benzylidene-2-thioxo-1,3-thiazolidin-4-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	dis	NaClO4	20°C	0.10M	U		K1=8.35	B2=15.85	1965NKb	(68543)2320

****

C10H7NO2 HL CAS 131-91-9 (2668)

1-Nitroso-2-naphthol, alpha-Nitroso-beta-naphthol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	diox/w	30°C	75%	U		K1=7.74		1957CFa	(68565)2321

****

C10H7NO2 HL CAS 132-53-6 (2524)

2-Nitroso-1-naphthol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	diox/w	30°C	50%	U	I	K1=7.55		1957CFa	(68633)2322

In 75% dioxan K1=7.74

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	oth/un	25°C	0.0	U		K1=2.13		1958LUa (68746)	2323
Ag+	sp	non-aq	25°C	100%	U		K1=0.450	B2=0.48	1991PZa (69167)	2324
Ag+	sol	KNO3	20°C	1.0M	U	T	K1=0.505	B(Ag2L)=-0.015	1954KLa (69168)	2325
Ag+	sol	none	25°C	0.0	U		K1=0.49	B2=0.53	1949AKa (69169)	2326

K1=0.467(25 C),0.436(30 C); B(Ag2L)=-0.042(25 C),-0.063(30 C)

C10H8 L Naphthalene CAS 91-20-3 (3289)
Naphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sp	non-aq	25°C	100%	U		K1=0.450	B2=0.48	1991PZa (69167)	2324
Ag+	sol	KNO3	20°C	1.0M	U	T	K1=0.505	B(Ag2L)=-0.015	1954KLa (69168)	2325
Ag+	sol	none	25°C	0.0	U		K1=0.49	B2=0.53	1949AKa (69169)	2326

K1=0.467(25 C),0.436(30 C); B(Ag2L)=-0.042(25 C),-0.063(30 C)

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
Ag+	ISE	mixed	25°C	0.10M	C	I	K1=4.04	B2= 7.79	2002PRa (69446)	2327
Ag+	gl	mixed	25°C	0.1M	U	I	K1=2.95 In 100% H2O K1=3.64 In 100% DMSO K1=2.25	B2= 5.90 in 100% H2O B2=6.7 In !00% DMSO B2=4.5	1998SGb (69447)	2328
Ag+	sp	non-aq	25°C	100%	U	I	K1=2.4		1985MKb (69448)	2329
Ag+	ISE	KNO3	25°C	0.10M	C		K1=3.44	B2=6.78	1985YWa (69449)	2330
Ag+	ISE	non-aq	?	100%	U		B2=5.33		1984IGa (69450)	2331
Ag+	sp	NaNO3	25°C	1.00M	U	T H	K(AgL2+H=AgL+HL)=-0.086		1981HWa (69451)	2332
Ag+	ISE	non-aq	25°C	100%	U		K1=7.1	B2=13.1	1981TLa (69452)	2333

Ag-electrode; Medium:0.1 M NaClO4 in 0.4 mol parts DMFA in H2O
for 100% H2O K1=4.59; K2=4.43; for 100% DMFA K1=3.52; K2=3.32

Medium: 0.1M Et4NClO4 in 0.5 mol parts DMSO in H2O;
For 0.1 M Et4NClO4 in 0.3 mol parts EtOH in H2O K1=2.07; B2=5.4

Medium: DMSO. In DMF: K1=3.4; MeCN: 3.6; MeOH: 4.3

Medium: CH3CN

5-45 C. DH=11.5 kJ mol-1, DS=-9 J K-1 mol-1

Medium: Propylene carbonate

Ag+ ISE alc/w 25°C 25% U I B2=7.59 1973BNb (69453)2334
Medium: EtOH, 0.2 M LiNO3. In 50% EtOH: B2=7.34; 75%: B2=7.46; 96%: B2=7.74

Ag+ ISE mixed 25°C 25% U I B2=7.48 1973BNb (69454)2335
Medium: PrOH, 0.2 M LiNO3. 50% PrOH: B2=7.27; 75%: B2=7.36; 90%: 7.66
In 25% acetone: B2=7.48; 50%: B2=7.46; 75%: B2=7.61; 90%: B2=7.72

Ag+ ISE oth/un 25°C 1.0M U K1=3.0 B2=7.11 1972KMf (69455)2336

Ag+ ISE KNO3 35°C 0.10M U K1=3.03 B2=6.67 1967LUb (69456)2337

Ag+ ISE KNO3 20°C 0.10M U T H K1=3.84 B2=7.37 1958CSc (69457)2338
K1=3.70(25 C),3.61(30 C),3.53(35 C),3.46(40 C); B2=7.22, 7.08, 6.93, 6.80
DH(K1)=-32.0 kJ mol-1, SD=-36.6; DH(K2)=-17.1, DS=10.0

Ag+ sp alc/w 20°C 100% U B2=8.89 1958PPa (69458)2339
Medium: EtOH

Ag+ gl none 25°C 0.0 U B2=6.8 1954SSa (69459)2340
****
C10H9N L CAS 134-32-7 (3891)
1-Aminonaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% U K1=2.20 B2=2.76 1960ALa (69991)2341
Medium: EtOH
****
C10H9NS HL CAS 10222-10-3 (1029)
2-Methyl-8-mercaptoquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% U K1=14.7 B2=19.3 1984UBa (70255)2342
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a

Ag+ EMF non-aq 25°C 100% U K1=14.7 B2=19.30 1983UBa (70256)2343
Medium: DMF, 0.1 M LiClO4
****
C10H9NS HL CAS 13982-83-7 (1030)
4-Methyl-8-mercaptoquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% U K1=15.7 B2=21.0 1984UBa (70272)2344
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a

Ag+ EMF non-aq 25°C 100% U K1=15.7 B2=21.00 1983UBa (70273)2345

Medium: DMF, 0.1 M LiClO4
****
C10H9NS HL CAS 15759-04-3 (1031)
6-Methyl-8-mercaptoquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% U K1=14.9 B2=20.4 1984UBa (70286)2346
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a

Ag+ EMF non-aq 25°C 100% U K1=14.9 B2=20.40 1983UBa (70287)2347
Medium: DMF, 0.1 M LiClO4
****
C10H9NS HL CAS 15759-05-4 (1032)
7-Methyl-8-mercaptoquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% U K1=15.1 B2=20.9 1984UBa (70298)2348
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a

Ag+ EMF non-aq 25°C 100% U K1=15.1 B2=20.90 1983UBa (70299)2349
Medium: DMF, 0.1 M LiClO4
****
C10H9N3 L Dipyridylamine CAS 1202-34-2 (2428)
(2,2'-Dipyridyl)amine; C5H4N.NH.C5H4N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 50% U B2=3.23 1934LAb (70331)2350
Medium: 50 mol% EtOH
****
C10H10 L CAS 447-53-0 (4691)
1,2-Dihydronaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 1.0M U K1=1.45 B2=1.60 1969INa (70462)2351
****
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
---
Ag+ gl diox/w 30°C 75% U K1=5.43 1967SUa (70692)2352
****
C10H10O2S HL CAS 17892-66-6 (4724)
4-(Prop-1-enylthio)benzoic acid; CH2:CH.CH2.S.C6H4.COOH

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

---
Ag+ ISE oth/un 25°C 0.20M U K1=2.76 1968PSb (70792)2353
Acetate buffer
****
C10H10O4AsCl H2L (4788)
Bis(carboxymethyl)(2-chlorophenyl)arsine; (HOOC.CH2)2.As.(C6H4Cl)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 20°C 0.10M U K1=5.20 1972FGb (70825)2354
K(Ag+HL)=4.13
K(Ag+H2L)=4.045
****
C10H10O4AsCl H2L (4789)
Bis(carboxymethyl)(4-chlorophenyl)arsine; (HOOC.CH2)2.As.(C6H4Cl)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 20°C 0.10M U K1=5.92 1972FGb (70827)2355
K(Ag+HL)=4.96
K(Ag+H2L)=4.466
****
C10H10O4S2 H2L CAS 36198-83-1 (4728)
1,2-Phenylenebis(thioethanoic acid); C6H4(S.CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.20M U K1=3.97 1971FPa (70829)2356
Medium: 0.2 M acetate buffers at pH 1.5 and 5.95
****
C10H11NO3S H2L Benzoylcysteine CAS 60199-84-0 (2580)
N-Benzoyl-2-amino-3-mercaptopropanoic acid;C6H5.CO.NHCH(COOH)CH2SH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE NaNO3 25°C 0.15M U K1=11.75 1976ZNa (70953)2357
K(AgL+H)=4.88
Method: Ag-electrode
****
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
---
Ag+ gl KNO3 20°C 0.10M U K1=1.0 1964PIa (70985)2358
****
C10H11O4As H2L CAS 51525-18-9 (3907)
As-Phenylarsinodiethanoic acid; C6H5.As(CH2.COOH)2

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

---

Ag+ ISE KNO3 20°C 0.10M U K1=6.13 1972FGb (71125)2359
K(Ag+HL)=5.126
K(Ag+H2L)=4.643

Ag+ ISE KNO3 20°C 0.10M U K1=5.37 1964PIa (71126)2360
K(Ag+HL)=3.73
K(AgL+H)=3.40

****

C10H12 L CAS 28106-30-1 (4695)
alpha-Ethylstyrene; C6H5.C(C2H5):CH2

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

---

Ag+ sol KNO3 25°C 1.0M U T K1=1.04 B2=1.24 1969INa (71142)2361
0 C, K1=1.26, K2=0.38

****

C10H12 L CAS 27496-76-0 (4694)
beta,beta-Dimethylstyrene; C6H5.CH:C(CH3)2

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

---

Ag+ sol KNO3 25°C 1.0M U K1=0.70 B2=0.60 1969INa (71143)2362

****

C10H12 L CAS 7525-62-4 (4696)
cis-Ethylstyrene; C6H5.CH:CH.C2H5

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

---

Ag+ sol KNO3 25°C 1.0M U T K1=1.18 B2=1.29 1969INa (71144)2363
0 C, K1=1.36, K2=0.40

****

C10H12 L CAS 2039-90-9 (4692)
cis-alpha,beta-Dimethylstyrene; C6H5.C(CH3):C.CH3

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

---

Ag+ sol KNO3 25°C 1.0M U K1=0.72 B2=0.57 1969INa (71145)2364

****

C10H12 L CAS 7564-63-8 (4697)
trans-Ethylstyrene; C6H5.CH:C(C2H5)H

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

---

Ag+ sol KNO3 25°C 1.0M U T K1=0.91 B2=1.02 1969INa (71146)2365
0 C, K1=1.17, K2=0.34

****

C10H12 L CAS 2039-89-6 (4693)
trans-alpha,beta-Dimethylstyrene; C6H5.C(CH3):C.CH3

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        sol KNO3   25°C  1.0M U        K1=0.48   B2=0.59   1969INa (71147)2366
*************************************************************************
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
-------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C   H    K1=5.64        1981ANb (71234)2367
                                         B(AgHL)=9.73
                                         B(Ag2L2)=14.83
                                         B(Ag2L)=7.15
-------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.10M M        K1=6.03   B2=9.5    1975IPa (71235)2368
Medium: 0.10M K-acetate
-------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.10M U        K1=6.09        1963IFc (71236)2369
*************************************************************************
C10H12O2S             HL                      CAS 2899-66-3  (3324)
3-(Benzylthio)propanoic acid; C6H5.CH2.S.CH2.CH2.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE NaNO3  20°C  1.0M U        B2=7.34        1944LAa (71640)2370
*************************************************************************
C10H12O2S             HL                      CAS 21213-10-5  (4738)
4-(n-Propylthio)benzoic acid; CH3.CH2.CH2.S.C6H4.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.20M U        K1=2.82        1968PSb (71641)2371
Acetate buffer.
*************************************************************************
C10H12O3Se            HL                        (4739)
(2-Ethoxyphenylseleno)ethanoic acid; C2H5O.C6H4.Se.CH2.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE oth/un 20°C 0.10M U  I     K1=3.78   B2=7.07   1968PSa (71648)2372
Acetate buffer. I=0.2, K(Ag+HL)=2.93
*************************************************************************
C10H12O3Se            HL                        (4740)
(4-Ethoxyphenylseleno)ethanoic acid; C2H5O.C6H4.Se.CH2.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE oth/un 20°C 0.10M U  I     K1=3.85   B2=6.78   1968PSa (71649)2373
Acetate buffer. I=0.2, K(Ag+HL)=3.09
*************************************************************************
```

C10H13N L CAS 100190-73-6 (302)
2-(Pent-4-enyl)pyridine; C5H4N.CH2.CH2.CH2.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	U		K1=2.27	B2=4.37	1974ILa (71690)	2374

****
C10H13NO L (5523)
3-Acetyl-2,4,6-trimethylpyridine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	NaNO3	25°C	0.50M	C		K1=2.13		1984ERa (71696)	2375

****
C10H13NS L (7469)
4-Phenyl-1-thia-4-azacyclohexane; C6H5.C4H8NS

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	U		K1=1.71	B2= 3.01	1999ISa (71779)	2376

Medium: CH3CN. 0.1 M Me4NClO4
****
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
Ag+	ISE	oth/un	25°C	0.00	U		K1=2.02	B2=3.86	1968PGb (71933)	2377

****
C10H14 L Prehnitene CAS 488-23-3 (3292)
1,2,3,4-Tetramethylbenzene; C6H2(CH3)4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	alc/w	25°C	50%	U		K1=0.23		1956OAa (72034)	2378

Medium: 50% MeOH, 0.5 M NaNO3
****
C10H14 L Isodurene CAS 527-53-7 (3293)
1,2,3,5-Tetramethylbenzene; C6H2(CH3)4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	alc/w	25°C	50%	U		K1=0.06		1956OAa (72035)	2379

Medium: 50% MeOH, 0.5 M NaNO3
****
C10H14 L Durene CAS 95-93-2 (2828)
1,2,4,5-Tetramethylbenzene; C6H2.(CH3)4

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

Ag+ sol diox/w 25°C 50% U K1=0.06 1956OAa (72036)2380
Medium: 50% MeOH, 0.5 M NaNO3
****
C10H14 L CAS 141-93-5 (3290)
1,3-Diethylbenzene; C2H5.C6H4.C2H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol alc/w 25°C 50% U K1=0.03 1956OAa (72038)2381
Medium: 50% MeOH, 0.5 M NaNO3
****
C10H14 L CAS 98-06-0 (3291)
t-Butylbenzene; C6H5.C(CH3)3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol alc/w 25°C 50% U K1=0.05 1956OAa (72039)2382
Medium: 50% MeOH, 0.5 M NaNO3
****
C10H15N L CAS 91-66-7 (3897)
N,N-Diethylaniline; C6H5.N(CH2.CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 96% U K1=1.28 1961ALb (72630)2383
Medium: 96% EtOH, <0.01 M
****
C10H15NO4BrPS2 HL (4801)
(4-Bromo)phenylsulfonylamidothiophosphoric acid O,O-diethyl ester;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 20°C 100% U K1=10.15 B2=13.15 1968ZAb (72656)2384

Ag+ ISE alc/w 20°C 100% U K1=11.0 1968ZGa (72657)2385
****
C10H15NO4ClPS2 HL (4800)
(4-Chloro)phenylsulfonylamidothiophosphoric acid O,O-diethyl ester;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 20°C 100% U K1=11.0 1968ZGa (72659)2386
****
C10H15NO4FPS2 HL (4803)
(4-Fluoro)phenylsulfonylamidothiophosphoric acid O,O-diethyl ester;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 20°C 100% U K1=10.36 B2=13.30 1968ZAb (72661)2387

```
Ag+        ISE alc/w  20°C 100%  U        K1=11.3        1968ZGa (72662)2388
**************************************************************************
C10H15NO4IPS2          HL                        (4802)
(4-Iodo)phenylsulfonylamidothiophosphoric acid O,O-diethyl ester;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE alc/w  20°C 100%  U        K1=10.9   B2=17.5   1968ZGa (72664)2389
**************************************************************************
C10H16NO4PS2           HL                        (4798)
Phenylsulfonylamidothiophosphoric acid O,O-diethyl ester;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        ISE alc/w  20°C 100%  U        K1=11.5        1968ZGa (73025)2390
**************************************************************************
C10H16N2O3S            HL    Vitamin H        CAS 58-85-5  (410)
D-Biotin (Coenzyme R);
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        nmr NaClO4 27°C 3.00M U T      K1=4.20        1982SSb (73045)2391
Medium: D2O. In DMF: K1=2.09. At 34 C in d6-DMSO, 0.01 M DNO3: K1=1.45
**************************************************************************
C10H16N2O8            H4L    EDTA             CAS 60-00-4  (120)
1,2-Diaminoethane-N,N,N',N'-tetraethanoic acid, Sequestric acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 1.00M C        K1=6.50        1992ANa (73432)2392
                                         B(AgHL)=12.30
                                         B(Ag2L)=7.60
--------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 1.00M U  I     K1=5.42        1989MIa (73433)2393
                                         K(AgL+H)=5.95
--------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C    M   K1=7.32        1985YWa (73434)2394
                                         K(AgL+H)=6.19
--------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.10M U        K1=7.31        1981SKf (73435)2395
                                         K(AgL+H)=6.01
--------------------------------------------------------------------------
Ag+        EMF KNO3   25°C 0.10M C        K1=7.2         1979BCb (73436)2396
                                         K(AgL+H)=6.5
                                         K(AgHL+H)=4.5
Method: Ag electrode.
--------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.01M C   H    K1=7.05        1978RLb (73437)2397
Method: silver sulfide electrode. Medium: 0.01 M KOH.
By calorimetry: DH(K1)=-23.8 kJ mol-1, DS(K1)=53.0 J K-1 mol-1.
```

```
------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M C   H    K1=6.99        1978SLa (73438)2398
By calorimetry: DH(K1)=-23.8 kJ mol-1, DS=+53.0
------------------------------------------------------------------------------
Ag+        cal KNO3   20°C  0.1M C        K1=7.32        1976ANb (73439)2399
                                         DH1= -41.1 kJ/mol
------------------------------------------------------------------------------
Ag+        ISE KNO3   25°C 0.10M U    M T K1=7.31        1968WRa (73440)2400
                                         K(AgL+H)=6.49
Ternary complexes with oxalic acid
------------------------------------------------------------------------------
Ag+        EMF oth/un 35°C 0.01M U T      K1=7.15        1967RLa (73441)2401
                                         K(Ag+HL)=3.29
Method: silver-sensitive glass electrode. K1=7.37(15 C),7.28(25 C);
K(Ag+HL)=3.46(15 C),3.36(25 C)
------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.10M U        K1=7.72   B2=11.72  1964JCa (73442)2402
------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.10M U        K1=7.32        1964PCa (73443)2403
                                         K(Ag+HL)=3.07
------------------------------------------------------------------------------
Ag+        dis NaClO4 20°C 0.10M U        K1=7.11        1963STc (73444)2404
Medium: KClO4
******************************************************************************
C10H16N2S               L                      CAS 80191-94-2  (8263)
3-[[2-(2-Pyridinyl)ethyl]thio]-1-propanamine;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.50M C                         1983SGb (74392)2405
                                         K(Ag+H2L)=2.66
                                         K(Ag+2H2L)=3.88
                                         K(Ag+HL)=3.76
                                         K(2Ag+2HL)=9.89
Additional method: Ag ion selective electrode. K(2Ag+HL+L)=12.82, B(Ag2L2)
=14.74, K(Ag+H2L+HL)=3.88, K(Ag+2HL)=6.55, K(2Ag+HL)=5.2, B(Ag2L)=9.04
------------------------------------------------------------------------------
Ag+        cal KNO3   25°C 0.50M C   H                   1983SHe (74393)2406
DH(Ag+H2L)=-34 kJ mol-1, DH(Ag+2H2L)=-63, DH(Ag+HL)=-36, DH(Ag+2HL)=-64,
DH(Ag+HL+H2L)=-69, DH(2Ag+2HL)=-107, DH(2Ag+HL+L)=-117, DH(2Ag+2L)=-122
******************************************************************************
C10H16O8P2            H4L                       (6907)
1,2-Diphosphinoethane-P,P,P'P'-tetraethanoic acid;
(HOOC.CH2)2P.CH2.CH2.P(CH2.COOH)2
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.10M C        K1=9.36        1992PPb (74937)2407
                                         B(Ag2L)=14.83
                                         B(AgHL)=13.85
```

B(AgH2L)=17.44
B(AgH3L)=19.89
B(Ag2HL)=18.8, B(Ag2H2L)=22.2

Ag+ gl NaClO4 25°C 0.10M C 1982PPc (74938)2408
B(AgHL)=13.85
****
C10H17NO4 H2L CAS 2848-06-8 (3916)
N-(Cyclohexyl)iminodiethanoic acid; C6H11.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 20°C 0.10M U K1=4.94 1963IFb (74968)2409
****
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
---
Ag+ gl KNO3 20°C 0.10M U K1=3.83 1963IFb (74983)2410
****
C10H17NO5 H2L (3917)
N-(Tetrahydropyran-2-ylmethyl)iminodiethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 20°C 0.10M U K1=4.83 1963IFa (74995)2411
****
C10H17N3O6S H3L Glutathione CAS 70-18-8 (333)
Glutamyl-cysteinyl-glycine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 20°C 0.10M C K1=12.3 B2=14.30 1999AKa (75098)2412
Method: Ag2S electrode. K(H+L)=8.8.

Ag+ ISE NaClO4 25°C 0.50M U 1969ZZa (75099)2413
K(Ag+H2L)=15.1
K(Ag+AgHL)=6.6
****
C10H17N2+ (4709)
5'-Aminopentylpyridinium cation
L+

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.50M U K1=3.49 B2=7.22 1969PBa (75174)2414
****
C10H18N2O5 L CAS 136809-46-6 (8929)
1,4,10-Trioxa-7,13-diazacyclopentadecane-6,14-dione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE R4N.X 25°C 0.05M U H K1=2.52 2002BSd (75220)2415
Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-4.2 kJ mol-1, DS(K1)=33.9 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
---
Ag+ ISE KNO3 25°C 0.10M U K1=6.71 1968WRa (75303)2416
****
C10H18N4 L CAS 46323-29-9 (3312)
6,7,8,9-Tetrahydro-10-isopropyl-7-methyl-5H-tetrazoloazepine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% U B2=2.22 1959PHa (75550)2417
Medium: MeCN
****
C10H18N4 L CAS 89991-85-5 (3311)
6,7,8,9-Tetrahydro-9-isopropyl-7-methyl-5H-tetrazoloazepine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% U B2=2.19 1959PHa (75551)2418
Medium: MeCN
****
C10H18N4 L CAS 4643-29-9 (3309)
8-s-Butyl-6,7,8,9-tetrahydro-5H-tetrazoloazepine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% U B2=2.18 1959PHa (75552)2419
Medium: CH3CN
****
C10H18N4 L CAS 25717-83-3 (3310)
8-t-Butyl-6,7,8,9-tetrahydro-5H-tetrazoloazepine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% U B2=2.14 1959PHa (75553)2420
Medium: CH3CN
****
C10H18O4S2 H2L CAS 79695-59-3 (3327)
Hexamethylenedithiodiethanoic acid; HOOC.CH2.S(CH2)6.S.CH2.COOH

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

```
--------------------------------------------------------------------------------
Ag+        ISE NaNO3  20°C  1.0M U        K1=6.0    B2=8.6    1944LAa (75608)2421
********************************************************************************
C10H20N2O3             HL    Val-D-Val        CAS 95657-14-0  (725)
L-Valyl-D-valine; H2N.CH(CH(CH3)2).CO.NH.CH(CH(CH3)2).COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=3.24   B2=7.24   1984LPa (75728)2422
********************************************************************************
C10H20N2O3             HL    Val-Val          CAS 3918-94-3  (724)
L-Valyl-L-valine; H2N.CH(CH(CH3)2).CO.NH.CH(CH(CH3)2).COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=3.03   B2=6.93   1984LPa (75738)2423
********************************************************************************
C10H20N2O3S2           HL    Met-D-Met        CAS 89680-20-6  (729)
Methionyl-D-methionine; H2N.CH(CH2.CH2.S.CH3).CO.NH.CH(CH2.CH2.S.CH3).COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=5.71        1984LPa (75757)2424
                                         B(AgHL)=12.40
                                         B(AgH2L)=17.3
                                         B(Ag2L2)=14.51
                                         B(Ag2HL2)=21.17
********************************************************************************
C10H20N2O3S2           HL    Met-Met          CAS 89680-18-2  (728)
Methionyl-methionine; H2N.CH(CH2.CH2.S.CH3).CO.NH.CH(CH2.CH2.S.CH3).COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M C        K1=5.81   B2=8.7    1984LPa (75763)2425
                                         B(AgHL)=11.86
                                         B(AgH2L)=16.31
                                         B(Ag2L2)=14.44
                                         B(Ag2HL2)=20.88
********************************************************************************
C10H20O2               HL    Capric acid      CAS 334-48-5  (2542)
Decanoic acid; CH3.(CH2)8.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  oth/un 20°C  var  U                        1981HTc (75903)2426
                                         Kso=-7.5
********************************************************************************
C10H20O3S2              L                     CAS 40253-98-3  (8606)
1,4,10-Trioxa-7,13-dithiacyclopentadecane;
--------------------------------------------------------------------------------
```

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        cal non-aq 25°C 100%  C   H    K1=6.05        1988BUb (75910)2427
Medium: acetonitrile. DH(K1)=-39.7 kJ mol-1, DS(K1)=-18 J K-1 mol-1.
*******************************************************************************
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
-------------------------------------------------------------------------------
Ag+        ISE none   25°C  dil  C    M   K1=1.06        2004KUa (75931)2428
Method: Ag ion-selective electrode; self medium. For extraction into
benzene, K(Ag+L(org)+HA(org)=AgLA(org)+H)=2.11. HA is picric acid.
-------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  C  IH  T K1=3.62   B2= 6.69  2003ADa (75932)2429
IUPAC Tentative. Medium: 0-0.1 M various.  DH(K1)=-27.2 kJ mol-1
In PC: K1=6.27, K2=1.77, DH(K1)=-41.2
-------------------------------------------------------------------------------
Ag+        con mixed  25°C  90%  C        K1=1.42        2003ISa (75933)2430
Medium: 90% v/v DMSO/H2O. By potentiometry (Ag electrode), K1=1.45.
-------------------------------------------------------------------------------
Ag+        con mixed  25°C  20%  C        K1=4.52        2003SIa (75934)2431
Medium: 20% w/w propylene carbonate/ethylene carbonate. By potentiometry
(Pt/Ag electrode), K1=4.65.
-------------------------------------------------------------------------------
Ag+        con alc/w  25°C  40%  C        K1=1.26        2002ISa (75935)2432
Medium: 40% EtOH/H2O. By potentiometry, K1=1.26
-------------------------------------------------------------------------------
Ag+        cal none   25°C  0.1M C T H    K1=0.89        2002VOa (75936)2433
                                          DH(K1)=-10.4 kJ mol-1
Ionic strength is provided by AgNO3 used: 0.06-0.2 M.
for 35 C K1=0.83; DH(K1)=-10.6l; for 45 C K1=0.78, DH(K1)=-10.3
-------------------------------------------------------------------------------
Ag+        con alc/w  25°C  40%  C        K1=1.35        2001ISa (75937)2434
Medium: 40% v/v EtOH/H2O. By potentiometry, K1=1.37.
-------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C        K1=6.24   B2= 8.01  2000OKa (75938)2435
Medium: propylene carbonate
-------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  C   H    K1=1.80   B2= 2.30  1999WBa (75939)2436
Medium: N,N-dimethylformamide. By calorimetry: DH(K1)=-18.0 kJ mol-1,
DH(K2)=2.9 kJ mol-1.
-------------------------------------------------------------------------------
Ag+        con mixed  25°C  90%  C TIH    K1=4.96        1998MTa (75940)2437
Medium: 90% CH3CN/H2O. Data for 20-35 C. DH(K1)=17.3 kJ mol-1, DS(K1)=36.9
J K-1 mol-1. In 50% CH3CN/H2O, K1=4.58, DH(K1)=4.8, DS(K1)=71.4.
-------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C T      K1=3.12        1998PSa (75941)2438
DH=-21.4 kJ mol-1, DS=-13 J K-1 mol-1. Method: Ag electrode.
Data for 10-55 C. Medium: EtOH.
```

Ag+ con non-aq 25°C 100% C K1=4.80 1992STa (75942)2439
Medium: propylene carbonate. By potentiometry with Ag electrode, K1=4.81.

Ag+ gl non-aq 25°C 100% C K1=6.24 B2=8.01 1989BPa (75943)2440
Medium: anhydrous propylene carbonate, 0.1 M Et4NClO4

Ag+ ISE non-aq 25°C 100% C K1=5.67 1983ANb (75944)2441
The equilibration took 7-12 days. Medium: PC, 0.10 M Et4NClO4

Ag+ cal alc/w 25°C 100% U H T K1=3.62 1980LIa (75945)2442
Medium: MeOH. DH=-27.5 kJ mol-1.

Ag+ oth oth/un 25°C ? U K1=0.94 1977RLa (75946)2443
Method: ultrasound absorption

Ag+ cal oth/un 25°C 0.10M U H T K1=0.94 1976ITb (75947)2444
DH=-13.5 kJ mol-1.
****
C10H21NO3 L (6568)
Trans-1-(bis(2-hydroxyethyl)amino)-2-hydroxycyclohexane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaNO3 25°C 0.10M C K1=2.09 1991DCa (76172)2445
****
C10H21NO4 L CAS 66943-05-3 (5818)
1-Aza-4,7,10,13-tetraoxacyclopentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF alc/w 25°C 100% C I K1=5.48 B2= 8.33 2003TCb (76178)2446
Medium: 100% MeOH. Also data for EtOH, DMSO, acetonitrile, propylene
carbonate and nitromethane.

Ag+ EMF non-aq 25°C 100% C K1=9.75 B2=14.52 2000OKa (76179)2447
Medium: propylene carbonate. Also data for N-anthryl-derivatives.

Ag+ EMF non-aq 25°C 100% C K1=4.10 B2= 6.55 1999THa (76180)2448
Medium: acetonitrile. Method: Ag/Ag+ electrode.

Ag+ EMF non-aq 25°C 100% C K1=4.06 B2= 6.71 1998ACa (76181)2449
Medium: CH3CN
****
C10H22N2OS2 L CAS 40236-04-2 (2343)
1-Oxa-4,13-diaza-7,10-dithiacyclopentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaClO4 25°C 0.10M U H K1=8.95 1979ASb (76231)2450

```
                                        B(AgHL)=14.15
                                        B(Ag2L)=12.21
Also DH values
--------------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.10M U       K1=9.91   B2=12.64  1977LAa (76232)2451
                                        B(AgHL)=15.22
--------------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.10M U       K1=8.95       1975ASc (76233)2452
********************************************************************************
C10H22N2OS2             L                     CAS 40236-30-4  (5395)
1-Oxa-4,13-dithia-7,10-diazacyclopentadecane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.10M U   H    K1=9.91       1979ASb (76249)2453
                                        B(AgHL)=15.22
                                        B(Ag2L)=12.6
Also DH values
********************************************************************************
C10H22N2O3              L                     CAS 60350-17-6  (2471)
1,4,7-Trioxa-10,13-diazacyclopentadecane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF mixed  25°C  90%  C       K1=5.12       2003ISa (76258)2454
Medium: 90% v/v DMSO/H2O. Method: Ag electrode.
--------------------------------------------------------------------------------
Ag+        ix  non-aq 25°C 100%  U       K1=5.17       1981SAa (76259)2455
Medium: DMSO, 0.1 M R4NX
********************************************************************************
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
--------------------------------------------------------------------------------
Ag+        EMF alc/w  25°C 100%  C  I     K1=7.49       2003TCb (76279)2456
Medium: 100% MeOH. Also data for EtOH, acetonitrile and propylene
carbonate.
--------------------------------------------------------------------------------
Ag+        ISE R4N.X  25°C 0.05M U   H    K1=13.15  B2=16.66  2002BSd (76280)2457
Method: Ag+ ISE. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorim-
etry: DH(K1)=-76.5 kJ mol-1, DS=-6.0 J K-1 mol-1; DH(K2)=-38.2, DS=-61.4.
--------------------------------------------------------------------------------
Ag+        EMF alc/w  25°C  40%  C       K1=5.83       2002ISa (76281)2458
Medium: 40% EtOH/H2O. Method: Ag/Ag+ electrode.
--------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C       K1=13.75  B2=16.92  2000OKa (76282)2459
Medium: propylene carbonate. Also data for N-anthryl and N,N'-dianthryl
derivatives.
--------------------------------------------------------------------------------
```

```
Ag+        EMF non-aq 30°C 100%  C        K1=7.40        1999KBa (76283)2460
Method: Ag/Ag+ electrode. Medium: MeOH.
--------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C        K1=6.43        1999THa (76284)2461
Medium: acetonitrile. Method: Ag/Ag+ electrode.
--------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  U        K1=5.71        1998HTb (76285)2462
Medium: DMSO. Method: Ag/Ag+ electrode
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        K1=7.45        1988CFa (76286)2463
Medium: MeOH
--------------------------------------------------------------------------------
Ag+        ISE non-aq 30°C 100%  C T H    K1=13.0        1986ALa (76287)2464
Medium: propylene carbonate, 0.1M Et4NClO4. DH and DS given
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U   H    K1=6.55        1986BUb (76288)2465
In CH3CN. DH=-31.7 kJ mol-1
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U   H    K1=7.63        1985BUb (76289)2466
Medium: MeOH, 0.05M Et4NClO4. DH=-34.6 kJ mol-1
--------------------------------------------------------------------------------
Ag+        ISE R4N.X  25°C 0.10M U  I     K1=5.88        1983CSa (76290)2467
Also data for 0.05-1.0 mol fraction MeCN/H2O
--------------------------------------------------------------------------------
Ag+        gl  alc/w  25°C 100%  C        K1=7.61        1980SAa (76291)2468
                                         B(Ag2L)=11.21
Medium: MeOH, 0.05 M Et4NClO4
--------------------------------------------------------------------------------
Ag+        gl  R4N.X  25°C 0.10M C        K1=5.85        1977ASc (76292)2469
********************************************************************************
C10H22N2S2              L                          (7059)
8-Methyl-1,5-dithia-8,11-diazacyclotridecane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  KNO3   425°C 0.10M M        K1=10.06  B2=12.58  1995RKa (76368)2470
                                         B(AgHL)=13.72
                                         B(AgH2L)=16.554
********************************************************************************
C10H22O2S4              L                      CAS 78010-97-6  (4759)
3,6,9,12-Tetrathiatetradecan-1,14-diol; (HO.CH2.CH2.S.CH2.CH2.S.CH2.)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE KNO3   20°C 0.10M U        K1=10.00  B2=13.58  1970WSa (76431)2471
                                         K(AgL+Ag)=3.50    pH 3
********************************************************************************
C10H22O5                L    Tetraglyme       CAS 143-24-8  (121)
2,5,8,11,14-Pentaoxapentadecane; (CH3.O.CH2.CH2.O.CH2.CH2.)2O
--------------------------------------------------------------------------------
```

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  non-aq 25°C 100%  C        K1=3.93   B2=5.94   1989BPa (76433)2472
Medium: anhydrous propylene carbonate, 0.1 M Et4NClO4
*************************************************************************
C10H23N                L                     CAS 2050-92-2  (8927)
Dipentylamine;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        cal R4N.X  25°C 0.05M C   H                   2002BSd (76485)2473
Medium: propylene carbonate, 0.05 M Et4NClO4. DH(K1)=-49.8 kJ mol-1.
*************************************************************************
C10H24N2OS2            L                     CAS 68704-79-0  (1787)
8-Oxa-2,14-diaza-5,11-dithiapentadecane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.10M U   H    K1=7.32        1979ASb (76554)2474
                                         B(AgHL)=15.13
                                         B(Ag2L)=10.19
Also DH values
-------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.10M U        K1=7.34        1975ASb (76555)2475
                                         B(Ag2L)=10.90
                                         B(AgHL)=15.04
*************************************************************************
C10H24N4               L    Cyclam           CAS 295-37-4  (8)
1,4,8,11-Tetraazacyclotetradecane; cyclo(-(HN.CH2.CH2.NH.(CH2)3)2-)
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        EMF mixed  25°C  90%  C        K1=7.88        2003ISa (76652)2476
Medium: 90% v/v DMSO/H2O. Method: Ag electrode.
-------------------------------------------------------------------------
Ag+        EMF alc/w  25°C  40%  C        K1=8.36        2002ISa (76653)2477
Medium: 40% EtOH/H2O. Method: Ag/Ag+ electrode.
-------------------------------------------------------------------------
Ag+        sp  non-aq 25°C 100%  C        K1=3.43        1997ODb (76654)2478
Medium: DMSO, 0.10 M Et4NClO4.
*************************************************************************
C10H28N6               L    PENTEN           CAS 4097-90-9  (3315)
N,N,N',N'-Tetra-(2-aminoethyl)diaminoethane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  NaNO3  25°C  1.0M C        K1=10.83       2001GLb (76864)2479
                                         B(AgHL)=20.37
                                         B(AgH2L)=28.93
*************************************************************************
```

C11H9NO2 HL CAS 92609-55-3 (4827)
5-Acetyl-8-hydroxyquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl diox/w 25°C 60% U K1=5.35 1973SCd (77324)2480
Medium: 60% dioxan, 0.1 M NaClO4
****
C11H9NO2S2 HL CAS 27477-29-8 (3952)
5-(4'-Methoxybenzylidene)-2-thioxo-1,3-thiazolidin-4-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis NaClO4 20°C 0.10M U K1=8.80 1965NKb (77354)2481
****
C11H9N3O HL CAS 10335-29-2 (3937)
2-(2'-Pyridylazo)phenol; C5H4N.N:N.C6H4.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 50% U K1=5.4 1967ANa (77453)2482
Medium: 50% MeOH, 0.1 M NaClO4
****
C11H10N2 L CAS 1132-37-2 (2427)
(2,2'-Dipyridyl)methane; C5H4N.CH2.C5H4N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 20°C 0.10M U K1=3.33 B2=6.41 1970BAa (77655)2483
K(Ag+HL)=1.0
K(Ag+AgL)=1.4
****
C11H11NO6 H3L CAS 1147-65-5 (425)
N-(2'-Carboxyphenyl)iminodiethanoic acid; HOOC.C6H4.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl R4N.X 20°C 0.10M U K1=3.54 1963IFb (77811)2484
Medium: Me4NNO3
****
C11H11NS HL CAS 54128-50-6 (1033)
2,7-Dimethyl-8-mercaptoquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% U K1=14.1 B2=20.8 1984UBa (77855)2485
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a

Ag+ EMF non-aq 25°C 100% U K1=14.1 B2=20.80 1983UBa (77856)2486
Medium: DMF, 0.1 M LiClO4

****
C11H11O6As H3L (4836)
Bis(carboxymethyl)(4-carboxyphenyl)arsine; (HOOC.CH2)2.As.C6H4.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 20°C 0.10M U K1=6.1 1969PRa (77971)2487
K(Ag+HL)=5.4
****
C11H12N2O2 HL Tryptophan CAS 73-22-3 (3)
2-Amino-3-(3-indolyl)propanoic acid; H2N.CH(CH2.C8H6N)COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl oth/un 25°C 0.5M U K1=3.53 B2= 8.47 2002LKa (78158)2488
In 0.5 M HNO3
****
C11H12O2 HL CAS 3318-61-4 (4814)
1-Phenylpentane-2,4-dione; C6H5.CH2.CO.CH2.CO.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl diox/w 30°C 75% U K1=5.44 1967SUa (78380)2489
****
C11H12O2S HL (4838)
4-(But-1-enylthio)benzoic acid; CH2:CH.CH2.CH2.S.C6H4.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.20M U K1=2.84 1968PSb (78384)2490
Acetate buffer.
****
C11H12O4S2 H2L CAS 4265-49-0 (4840)
4-Methyl-1,2-phenylenebisthioethanoic acid; CH3.C6H3(S.CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.20M U K1=4.17 1971FPa (78413)2491
Medium: acetate buffer, pH 1.5 and 5.95
****
C11H13NO4 H2L CAS 3987-53-9 (966)
N-Benzyliminodiethanoic acid; C6H5.CH2.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.10M M K1=4.31 B2=7.1 1975IPa (78574)2492
Medium: 0.10M K-acetate
****
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
Ag+	gl	R4N.X	20°C	0.10M	U		K1=2.75	1963IFb (78599)	2493

Medium: Me4NNO3

****

C11H13N7O4 HL CAS 362468-50-6 (8659)

N-(4-Amino-1,6-dihydro-1-methyl-5-nitroso-6-oxo-2-pyrimidinyl)-L-histidine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	C		B2=8.88	2002PLb (78730)	2494
							B(AgHL)=8.60		
							B(Ag3L3)=20.68		
							B(AgH-2L)=-17.51		
							B(AgHL2)=14.55		

****

C11H13O4As H2L CAS 36198-36-4 (4846)

Bis(carboxymethyl)(2-tolyl)arsine; (HOOC.CH2)2.As.C6H4.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	20°C	0.10M	U		K1=5.93	1972FGb (78732)	2495
							K(Ag+HL)=4.981		
							K(Ag+H2L)=4.412		

****

C11H13O4As H2L CAS 36198-37-5 (4847)

Bis(carboxymethyl)(3-tolyl)arsine; (HOOC.CH2)2.As.C6H4.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	20°C	0.10M	U		K1=6.06	1972FGb (78734)	2496
							K(Ag+HL)=4.967		
							K(Ag+H2L)=4.403		

****

C11H13O4As H2L CAS 36198-38-6 (4848)

Bis(carboxymethyl)(4-tolyl)arsine; (HOOC.CH2)2.As.C6H4.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	20°C	0.10M	U		K1=6.44	1972FGb (78736)	2497
							K(Ag+HL)=5.577		
							K(Ag+H2L)=4.827		

****

C11H13O4AsS H2L CAS 36198-36-4 (4870)

Bis(carboxymethyl)-2-(methylthiophenyl)arsine; (HOOC.CH2)2.As.C6H4.S.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	oth/un	25°C	0.20M	U		K1=5.14	1971FPa (78741)	2498

B(Ag2L)=7.88
K(Ag+HL)=4.64
K(2Ag+HL)=6.82
K(Ag+2HL)=8.73
Medium: 0.2 M acetate buffer, pH 1.5 and 5.95

****

C11H13O5As H2L (4849)
Bis(carboxymethyl)(2-methoxyphenyl)arsine; (HOOC.CH2)2.As.C6H4.OCH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	20°C	0.10M	U		K1=6.14		1972FGb	(78751)2499
							K(Ag+HL)=4.67			
							K(Ag+H2L)=4.54			

****

C11H13O5As H2L (4850)
Bis(carboxymethyl)(3-methoxyphenyl)arsine; (HOOC.CH2)2.As.C6H4.OCH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	20°C	0.10M	U		K1=6.20		1972FGb	(78753)2500
							K(Ag+HL)=4.804			
							K(Ag+H2L)=4.556			

****

C11H13O5As H2L (4851)
Bis(carboxymethyl)(4-methoxyphenyl)arsine; (HOOC.CH2)2.As.C6H4.OCH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	KNO3	20°C	0.10M	U		K1=6.36		1972FGb	(78755)2501
							K(Ag+HL)=5.495			
							K(Ag+H2L)=4.759			

****

C11H14 L CAS 2055-40-5 (4806)
alpha-Isopropylstyrene; C6H5.C(CH(CH3)2):CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	KNO3	25°C	1.0M	U	T	K1=1.13	B2=1.28	1969INa	(78756)2502

K1(0 C)=1.52, K2(0 C)=0.11

****

C11H14 L CAS 62985-48-2 (4809)
alpha-n-Propylstyrene; C6H5.C(CH2.CH2.CH3):CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	KNO3	25°C	1.0M	U	T	K1=0.91	B2=1.14	1969INa	(78757)2503

K1(0 C)=1.28, K2(0 C)=0.23

****

C11H14 L CAS 79211-50-0 (4807)

cis-beta-Isopropylstyrene; C6H5.CH:CH.CH(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	1.0M	U	T	K1=1.14 B2=1.18	1969INa	(78758)2504

K1(0 C)=1.37, K2(0 C)=0.26

****

C11H14 L CAS 7642-18-4 (4810)

cis-beta-n-Propylstyrene; C6H5.CH:CH.CH2.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	1.0M	U	T	K1=1.06 B2=1.17	1969INa	(78759)2505

K1(0 C)=1.32, K2(0 C)=0.26

****

C11H14 L CAS 21003-53-2 (4808)

trans-beta-Isopropylstyrene; C6H5.CH:CH.CH(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	1.0M	U	T	K1=1.02 B2=0.97	1969INa	(78760)2506

K1(0 C)=1.35, K2(0 C)=0.26

****

C11H14 L (4811)

trans-beta-n-Propylstyrene; C6H5.CH:CH.CH2.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sol	KNO3	25°C	1.0M	U	T	K1=0.74 B2=0.97	1969INa	(78761)2507

K1(0 C)=0.99, K2(0 C)=0.40

****

C11H14N2O L CAS 51036-80-7 (444)

1-(1-Ethoxyethyl)benzimidazole;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	kin	NaCl	80°C	0.25M	C			1980LKa	(78769)2508
							K(Ag+HL=AgL+H)=2.19		

****

C11H14N2O4 H2L (1880)

N-(6-Methyl-2-pyridylmethyl)iminodiethanoic acid; CH3C5H3NCH2N(CH2COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	C	H	K1=6.10	1981ANb	(78872)2509
							B(AgHL)=10.25		
							B(Ag2L2)=15.85		

****

C11H14O2S HL CAS 76003-63-9 (4856)

4-(n-Butylthio)benzoic acid; CH3.CH2.CH2.CH2.S.C6H4.COOH

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.20M U        K1=2.82        1968PSb (79006)2510
Acetate buffer
********************************************************************************
C11H15NO2S2             L                      CAS 85692-71-3  (2453)
Di((ethylthio)methyl)-4'-nitrobenzene; O2N.C6H4.CH(SC2H5)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        kin diox/w 25°C   1%  U T      K1=0.18        1989SSa (79025)2511
K1=-0.22 (16 C); 0.95 (44 C); 1.48 (59 C)
********************************************************************************
C11H15NO3               L                        (6281)
Benzaldehyde:tris-buffer Schiff's base; C6H5.CH:N.C(CH2.OH)3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  alc/w  26°C  60%  U        K1=3.89        1978TPb (79029)2512
********************************************************************************
C11H15NO3ClPS           L                        (4882)
O,O-Diethyl-4-chlorobenzoylphosphoramidothioate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  20°C 100%  U        K1=10.8   B2=13.80  1968ZAb (79033)2513
Medium: EtOH
********************************************************************************
C11H15N2O5PS            L                        (4877)
O,O-Diethyl-4-nitrobenzoylphosphoramidothioate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  20°C 100%  U        K1=11.3   B2=14.30  1968ZAb (79056)2514
Medium: EtOH
********************************************************************************
C11H16                                       CAS 700-12-9  (3343)
Pentamethylbenzene; C6H(CH3)5
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C 0.50M U        K1=0.06        1956OAa (79077)2515
********************************************************************************
C11H16NO3PS             L                        (4878)
O,O-Diethylbenzoylphosphoramidothioate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  20°C 100%  U        K1=11.1   B2=14.10  1968ZAb (79080)2516
```

Medium: EtOH

****

C11H16S2 L CAS 7734-52-3 (2452)

Di((ethylthio)methyl)benzene; C6H5.CH(S.CH2.CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	kin	diox/w	25°C	1%	U		K1=2.48	1989SSa (79147)	2517

****

C11H18NO4PS2 HL (4879)

(4-Methyl)phenylsulfonylamidothiophosphoric acid O,O-diethyl ester;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	20°C	100%	U		K1=10.60 B2=13.50	1968ZAb (79192)	2518

Medium: EtOH

****

C11H18NO5PS2 HL (4880)

(4-Methoxy)phenylsulfonylamidothiophosphoric acid O,O-diethyl ester;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	20°C	100%	U		K1=10.66 B2=13.52	1968ZAb (79194)	2519

Medium: EtOH

****

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
Ag+	gl	KNO3	20°C	0.10M	U		K1=7.86 K(AgL+H)=5.80	1981SKf (79238)	2520
Ag+	EMF	KNO3	25°C	0.10M	C		K1=7.5 K(AgL+H)=7.4 K(AgHL+H)=5.1 K(AgH2L+H)=3.4	1979BCb (79239)	2521

Method: Ag electrode.

****

C11H18N2O8 H4L CAS 4408-81-5 (923)

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	1.00M	C		K1=5.02 B(AgHL)=13.45 B(Ag2L)=8.22 B(Ag2L2)=13.01	1992ANa (79402)	2522
Ag+	gl	KNO3	20°C	0.10M	U		K1=5.45	1981SKf (79403)	2523

K(AgL+H)=8.62
****
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
---
Ag+ gl KCl 25°C 0.10M U K1=5.28 1975HAa (79516)2524
B(AgHL)=17.09
K(Ag+AgL=Ag2L)=3.0
****
C11H18N4 L CAS 78668-34-5 (6708)
3,6,9,15-Tetraazabicyclo[9.3.1]pentadeca-1(15),11,13-triene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF KNO3 25°C 0.10M C K1=6.00 2002SGc (79616)2525
Method: Ag electrode.
****
C11H22N2O2S2 HL (7063)
10-Methyl-1,4-Dithia-7,10-diazacyclododecane-7-ethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M M K1=12.32 1995RKa (79817)2526
B(AgHL)=16.53
B(AgH2L)=18.329
****
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
---
Ag+ ISE none 25°C 0.0 C K1=1.10 1991TKa (79845)2527
Self medium (ca. 0.0008M). Method: Ag ion-selective electrode.

Ag+ dis none 25°C 0.0 C M 1989TKc (79846)2528
K(AgL+A=AgAL(org))=3.13
Method: extraction of metal picrate/L from H2O into benzene.
K(Ag+HA(org)+L(org)=AgAL(org)+H)=2.235. HA is picric acid.
****
C11H24N2S2 L (7060)
8-Methyl-1,4-dithia-8,11-diazacyclotetradecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M M K1=8.08 B2=10.24 1995RKa (79902)2529
B(AgHL)=14.36
B(AgH2L)=18.628
B(AgH2L2)=26.90

****
C11H24O2S4 L CAS 88458-56-4 (4861)
3,6,10,13-Tetrathiapentadecan-1,15-diol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 20°C 0.10M U K1=10.08 B2=13.66 1970WSa (79913)2530
K(AgL+Ag)=3.14 pH 3
****
C11H25N3S2 L (7062)
10-Methyl-7(2-aminoethyl)-1,4-dithia-7,10-diazacyclododecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M M K1=14.43 1995RKa (79944)2531
B(AgHL)=20.56
B(AgH2L)=22.418
****
C11H26N4 L CAS 15439-16-4 (7)
1,4,8,12-Tetraazacyclopentadecane; cyclo(-(NH.CH2.CH2.(N.(CH2)3.)3-)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp non-aq 25°C 100% C K1=4.26 1997ODb (79989)2532
Medium: DMSO, 0.10 M Et4NClO4.
****
C12H6O2Cl4S H2L CAS 97-18-7 (4944)
Bithionol; Cl2.C6H2(OH).S.C6H2(OH).Cl2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 75% U K1=4.55 B2=7.15 1970FGa (80095)2533
Medium: 75% EtOH, 1.0 M NaClO4
****
C12H7N2Br L CAS 40000-20-2 (2750)
5-Bromo-1,10-phenanthroline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M C K1=5.30 B2=11.74 1974BOa (80118)2534
****
C12H7N2Cl L CAS 4199-89-7 (2751)
5-Chloro-1,10-phenanthroline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M C K1=4.70 B2=11.02 1974BOa (80140)2535
****
C12H8N2 L Phenanthroline CAS 66-71-7 (144)
1,10-Phenanthroline;

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        B2=12.40       1988IGa (80365)2536
Medium: 0.1 M Et4NNO3 in propylene carbonate
--------------------------------------------------------------------------------
Ag+        EMF oth/un 25°C 0.10M U        B2=11.5        1986IGa (80366)2537
Solutions containing 0.1 M (C2H5)4N.ClO4 and 0.01 M AgNO3
Kso (AgL2NO3) = -7.20
--------------------------------------------------------------------------------
Ag+        ISE non-aq   ?  100%  U        B2=9.87        1984IGa (80367)2538
Medium: CH3CN
--------------------------------------------------------------------------------
Ag+        ISE NaNO3  25°C 0.50M U                       1967SPa (80368)2539
                                        Ks(AgL2NO3)=-18.95
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.10M U        K1=5.02   B2=12.07  1963DBa (80369)2540
--------------------------------------------------------------------------------
Ag+        ISE alc/w  20°C 100%  U  I                    1958PPa (80370)2541
                                        K3=13.40
Medium: EtOH. In MeCN K1=15.04
********************************************************************************
C12H9NOS2              HL                      CAS 15328-87-7  (3997)
5-(3'-Phenylallylidene)-2-thioxo-1,3-thiazolidin-4-one;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        dis NaClO4 20°C 0.10M U        K1=9.08        1965NKb (80569)2542
********************************************************************************
C12H9N3                 L                      CAS 1137-68-4  (2517)
2-(2'-Pyridyl)benzimidazole;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        K1=7.0    B2=13.1   1981TLa (80623)2543
Medium: Propylene carbonate
********************************************************************************
C12H10                  L    Biphenyl          CAS 92-52-4  (3368)
Biphenyl; C6H5.C6H5
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sp  non-aq 25°C 100%  U        K1=0.589  B2=0.21   1991PZa (80648)2544
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C    ?  U        K1=0.60   B2=0.60   1949AKa (80649)2545
********************************************************************************
C12H10N2O5S           H3L    Tropeolin 0       CAS 547-57-9  (1090)
Chrysoin; HSO3.C6H4.N:N.C6H3(OH)2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

```
------------------------------------------------------------------------------
Ag+        ISE mixed  20°C  75%  C                      1987KMa (80736)2546
                                      K(Ag+H2L)=0.77
                                      K(Ag+2H2L)=2.76
                                      K(Ag(H2L)2+H2L)=1.89
Medium: 75% v/v acetone/H2O
******************************************************************************
C12H10S                 L                     CAS 139-66-2  (6001)
Diphenylsulfide;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U   H    K1=0.48        1987ZPa (80804)2547
In DMSO; 0.1M NH4ClO4.
******************************************************************************
C12H12N2                L                     CAS 4916-40-9  (4895)
1,2-Bis(2-pyridyl)-ethane; C5H4N.CH2.CH2.C5H4N
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.10M U        K1=3.20   B2=5.93   1970BAa (80989)2548
                                      K(Ag+HL)=1.3
                                      K(Ag+AgL)=1.6
******************************************************************************
C12H12N2OS2             L                     CAS 536-17-4  (1815)
5-(4-Dimethylaminobenzylidene)-2-thioxo-4-thiazolidinone;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        dis NaClO4 20°C 0.10M U        K1=9.15        1965NKb (81035)2549
******************************************************************************
C12H12N2O2              L                     CAS 4114-95-8  (3976)
N,N'-Di(furfurylidene)ethylenediamine; (C4H3O.CH:N.CH2.)2
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE alc/w  20°C 0.10M U        K1=6.70   B2=8.95   1966HSc (81048)2550
Medium: MeOH, 0.1 M NaNO3
******************************************************************************
C12H12N2S2              L                     CAS 4144-94-7  (3977)
N,N'-Di(thienylidene)ethylenediamine; (C4H3S.CH:N.CH2.)2
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE alc/w  20°C 0.10M U        K1=7.54   B2=9.42   1966HSc (81112)2551
Medium: MeOH, 0.1 M NaNO3
******************************************************************************
C12H13NS               HL                     CAS 54421-21-5  (1034)
2-(2-Propyl)-8-mercaptoquinoline;
------------------------------------------------------------------------------
```

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  non-aq 25°C 100%  U        K1=8.9    B2=17.4   1984UBa (81253)2552
Medium: DMF, 0.1 M LiClO4
*************************************************************************
C12H13N3                L                     CAS 1539-42-0  (932)
bis-((2-Pyridyl)methyl)-amine (Di-2-picolylamine); C5H4N.CH2NHCH2.C5H4N
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  KNO3   20°C 0.10M C        K1=5.46   B2=8.16   1977AHc (81277)2553
-------------------------------------------------------------------------
Ag+        gl  KNO3   25°C 0.10M U        K1=5.1    B2=8.2    1968RBa (81278)2554
*************************************************************************
C12H14O2S              HL                       (4918)
4-(Pent-1-enylthio)benzoic acid; CH2:CH.CH2.CH2.CH2.S.C6H4.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.20M U        K1=3.05        1968PSb (81395)2555
Acetate buffer.
*************************************************************************
C12H14O4AsCl          H2L                       (4006)
4'-Chlorophenyl-3,3'-arsinodipropanoic acid;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE KNO3   20°C 0.10M U        K1=5.00        1964PIa (81407)2556
                                         K(Ag+HL)=3.98
*************************************************************************
C12H16                  L                     CAS 76206-42-9  (4883)
alpha-n-Butylstyrene; C6H5.C(CH2.CH2.CH2.CH3):CH2
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        sol KNO3   25°C  1.0M U T      K1=0.81        1969INa (81542)2557
                                         K(AgL+Ag)=0.18
0 C: K1=1.11, K(AgL+Ag)=0.23
*************************************************************************
C12H16                  L                     CAS 35243-57-3  (4886)
alpha-sec-Butylstyrene; C6H5.C(CH(CH3).CH2.CH3):CH2
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        sol KNO3   25°C  1.0M U T      K1=0.84        1969INa (81543)2558
                                         K(AgL+Ag)=0.11
0 C: K1=1.12, K(AgL+Ag)=0.23
*************************************************************************
C12H16                  L                     CAS 38338-64-6  (4889)
alpha-tert-Butylstyrene; C6H5.C(C(CH3)3):CH2
```

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 1.0M U T K1=0.93 1969INa (81544)2559
K(AgL+Ag)=0.08
0 C: K1=1.17, K(AgL+Ag)=0.26
****
C12H16 L CAS 6111-83-6 (4884)
cis-beta-n-Butylstyrene; C6H5.CH:CH.CH2.CH2.CH2.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 1.0M U T K1=0.93 1969INa (81545)2560
K(AgL+Ag)=0.04
0 C: K1=1.18, K(AgL+Ag)=0.18
****
C12H16 L CAS 63444-56-4 (4887)
cis-beta-sec-Butylstyrene; C6H5.CH:CH.CH(CH3).CH2.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 1.0M U T K1=0.94 1969INa (81546)2561
K(AgL+Ag)=0.00
0 C: K1=1.19, K(AgL+Ag)=0.20
****
C12H16 L CAS 42268-77-9 (4890)
cis-beta-tert-Butylstyrene; C6H5.CH:CH.C(CH3)3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 1.0M U T K1=0.97 1969INa (81547)2562
K(AgL+Ag)=0.04
0 C: K1=1.19, K(AgL+Ag)=0.32
****
C12H16 L CAS 828-15-9 (4885)
trans-beta-n-Butylstyrene; C6H5.CH:CH.CH2.CH2.CH2.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 1.0M U T K1=0.43 1969INa (81548)2563
K(AgL+Ag)=0.00
0 C: K1=0.81, K(AgL+Ag)=0.23
****
C12H16 L CAS 25358-51-6 (4888)
trans-beta-sec-Butylstyrene; C6H5.CH:CH.CH(CH3).CH2.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 1.0M U T K1=0.71 1969INa (81549)2564
K(AgL+Ag)=-0.05

0 C: K1=1.01, K(AgL+Ag)=-0.10
****
C12H16 L CAS 37849-09-5 (4891)
trans-beta-tert-Butylstyrene; C6H5.CH:CH.C(CH3)3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol KNO3 25°C 1.0M U T K1=0.82 1969INa (81550)2565
K(AgL+Ag)=0.15
0 C: K1=1.11, K(AgL+Ag)=0.36
****
C12H16O2S HL CAS 53551-39-6 (4932)
4-(n-Pentylthio)benzoic acid; CH3.CH2.CH2.CH2.CH2.S.C6H4.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.20M U K1=2.84 1968PSb (81666)2566
Acetate buffer.
****
C12H17NS2 L (7473)
7-Phenyl-1,4-dithia-7-azacyclononane; C6H5.C6H12NS2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C K1=3.70 B2= 6.70 1999ISa (81720)2567
Medium: acetonitrile, 0.1 M Me4NClO4
****
C12H18 L CAS 877-44-1 (3370)
1,2,4-Triethylbenzene; C6H3(CH2.CH3)3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol NaNO3 25°C 0.50M U K1=0.07 1956OAa (81787)2568
****
C12H18 L CAS 99-62-7 (3369)
1,3-Di-isopropylbenzene; C6H4(CH(CH3)2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol NaNO3 25°C 0.50M U K1=0.03 1956OAa (81788)2569
****
C12H18 L CAS 87-85-4 (2406)
Hexamethylbenzene; C6(CH3)6

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol NaNO3 25°C 0.50M U H K1=-0.44 1956OAa (81789)2570
DH(K1)=-14.4 kJ mol-1, DS=-52.3 J K-1 mol-1

Ag+ sol NaNO3 1.6°C 0.50M U K1=0.01 1956OAa (81790)2571

****

C12H18NO3PS L (4968)
O,O-Diethyl-4-methylbenzoylphosphoramidothioate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	alc/w	20°C	100%	U		K1=11.4	B2=14.40	1968ZAb	(81792)2572

****

C12H18OS2 L CAS 25837-15-2 (2455)
4-Methoxy-di(ethylthio)methyl-benzene; CH3O.C6H4.CH(S.CH2.CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	kin	diox/w	25°C	1%	U	T	K1=2.20	1989SSa	(81959)2573

K1=2.14 (34 C); 1.95 (43 C)

****

C12H18S2 L CAS 160581-14-6 (4912)
1,3-Bis[(ethylthio)methyl]benzene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	dis	KNO3	22°C	0.5M	U			1998FRa	(81967)2574
							B(Ag(NO3)L)(org)=1.91		
							B(Ag(NO3)L2)(org)=4.37		
							B(Ag3(NO3)3L3)(aq)=13.85		

Organic medium: chloroform. B(Ag(NO3)L)(org): Ag(aq)+NO3(aq)+L(org)=
Ag(NO3)L(org). B(Ag3(NO3)3L3)(aq):Ag(aq)+NO3(aq)+L(org)=Ag3(NO3)3L3(aq).

****

C12H18S2 L CAS 22914-06-3 (2454)
Di-(1,1-thioethyl)ethylbenzene; C6H5.CH(SC2H5)2CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	kin	diox/w	25°C	1%	U	T	K1=2.36	1989SSa	(81968)2575

K1=2.12 (34 C); 1.97 (43 C)

****

C12H20N2O8 H4L CAS 1798-13-6 (4935)
1,2-Diaminobutane-N,N,N',N'-tetraethanoic acid;
(HOOC.CH2)2N.CH2.CH(C2H5).N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	20°C	0.10M	U		K1=7.93	1981SKf	(82015)2576
							K(AgL+H)=5.92		

****

C12H20N2O8 H4L CAS 2458-58-4 (922)
1,4-Diaminobutane-N,N,N',N'-tetraethanoic acid; (HOOC.CH2)2N.(CH2)4.N(CH2.COOH)2

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

Ag+	gl	KNO3	25°C	1.00M	C	K1=5.15 B(AgHL)=14.10 B(Ag2L)=8.20 B(Ag2L2)=13.70	1992ANa	(82198)2577

****

C12H20N2O8 H4L BDTA CAS 868-43-9 (1742)
DL-2,3-Diaminobutane-N,N,N',N'-tetraethanoic acid;
(HOOC.CH2)2N.CH(CH3).CH(CH3).N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	20°C	0.10M	U		K1=8.01 K(AgL+H)=6.49	1981SKf	(82266)2578
Ag+	EMF	KNO3	25°C	0.10M	C		K1=5.5 K(AgL+H)=9.1 K(AgHL+H)=6.1 K(AgH2L+H)=3.0	1979BCb	(82267)2579

Method: Ag electrode.

****

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
Ag+	gl	KNO3	20°C	0.10M	U		K1=6.70 K(AgL+H)=6.75	1981SKf	(82348)2580

****

C12H20O7S L CAS 63689-64-5 (2171)
4-Thia-1,7,10,13,16-pentaoxacyclooctadecane-2,6-dione;
cyclo(-S.CH2.CO.(O.CH2.CH2)4.O.CO.CH2-)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	cal	alc/w	25°C	100%	U	H	K1=3.05	1980LIb	(82644)2581

Medium: MeOH. DH=-29.2 kJ mol-1

Ag+	sp	alc/w	25°C	100%	U	H	K1=3.05	1977ILc	(82645)2582

Medium: Methanol. DH(K1)= -29.2 kJ mol-1

****

C12H20O8 L CAS 62796-84-3 (2141)
1,4,7,10,13,16-Hexaoxacyclooctadecane-2,6-dione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	cal	alc/w	25°C	100%	U	H	K1=2.50	1980BMa	(82646)2583

Medium: MeOH. DH=-6.40 kJ mol-1.

Ag+	cal	alc/w	25°C	100%	U	H	K1=2.50	1980LIb	(82647)2584

Medium: MeOH. DH=-6.40 kJ mol-1.
****
C12H22N2O6 L CAS 23978-54-3 (8931)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-6,17-dione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	R4N.X	25°C	0.05M	U	H	K1=2.55	2002BSd (82780)	2585

Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-29.5 kJ mol-1, DS(K1)=-50.3 J K-1 mol-1.
****
C12H23NO5 L (6793)
10-Methoxycarbonylethyl-1,4,7-trioxa-10-azacyclododecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	cal	alc/w	25°C	100%	U	H		1990KMb (82942)	2586

Medium: MeOH. DH=-49.9 kJ mol-1
****
C12H23P L CAS 829-84-5 (5982)
Dicyclohexylphosphine; HP(C6H11)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	U	H	K1=5.40 B2=8.12	1987HPb (83010)	2587

In pyridine; medium: 0.1 M Et4NClO4
****
C12H24O2 HL Lauric acid CAS 143-07-7 (2540)
Dodecanoic acid, CH3.(CH2)10.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	oth/un	20°C	var	U			1981HTc (83109)	2588
							Kso=-9.00		

****
C12H24O2S4 L (6657)
1,4,7,10-Tetrathia-13,16-dioxacyclooctadecane, 1,4,7,10-Tetrathia-18-crown-6;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ix	none	25°C	0.0	U		K1=11.3	1991BTa (83116)	2589

****
C12H24O4S2 L CAS 296-39-9 (4938)
1,4,10,13-Tetraoxa-7,16-dithiacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	cal	non-aq	25°C	100%	C	H	K1=6.30	1988BUb (83126)	2590

Medium: acetonitrile. DH(K1)=-41.5 kJ mol-1, DS(K1)=-19 J K-1 mol-1.

```
Ag+        cal non-aq 25°C 100%  C   H                   1986BUe (83127)2591
Medium: MeOH. DH(K1)=-64.0 kJ mol-1, DS(K1)=-17.8 J K-1 mol-1.
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C .001M U   H    K1=1.84        1986PBa (83128)2592
-------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  dil  A        K1=4.34        1971FRa (83129)2593
*******************************************************************************
C12H24O5S               L    Thia-18-crown-6  CAS 52559-79-2  (2263)
1-Thia-4,7,10,13,16-pentaoxacyclooctadecane;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Ag+        cal alc/w  25°C 100%  U   H    K1=>5.5        1980LIa (83153)2594
Medium: MeOH. DH=-51.5 kJ 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
-------------------------------------------------------------------------------
Ag+        ISE none   25°C  dil  C    M                   2004KUa (83183)2595
Method: Ag ion-selective electrode; self medium. For extraction into
benzene, K(Ag+L(org)+HA(org)=AgLA(org)+H)=2.15. HA is picric acid.
-------------------------------------------------------------------------------
Ag+        EMF alc/w  25°C 100%  C        K1=4.29        2004ZTa (83184)2596
Medium: 100% methanol, 0.05 M Bu4NClO4. Method: Ag electrode.
-------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  C  IH  R K1=4.61        2003ADa (83185)2597
IUPAC Recommended. Medium: 0-0.1 M various.  DH(K1)=-39 kJ mol-1
In H2O: K1=1.50, DH(K1)=-9. In PC: K1=7.0, DH(K1)=-49.6
-------------------------------------------------------------------------------
Ag+        con mixed  25°C  90%  C        K1=2.11        2003ISa (83186)2598
Medium: 90% v/v DMSO/H2O. By potentiometry (Ag electrode), K1=2.15.
-------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  C TIH    K1=3.54        2003RZa (83187)2599
Medium: acetonitrile. Data for 15-55 C. DH(K1)=75 kJ mol-1, DS(K1)=321 J K
mol-1. In MeOH, K1=4.6, DH=25, DS=172. Data for AN/MeOH mixtures and BN.
-------------------------------------------------------------------------------
Ag+        con mixed  25°C  20%  C        K1=4.92        2003SIa (83188)2600
Medium: 20% w/w propylene carbonate/ethylene carbonate. By potentiometry
(Pt/Ag electrode), K1=4.89.
-------------------------------------------------------------------------------
Ag+        con alc/w  25°C  40%  C        K1=1.97        2002ISa (83189)2601
Medium: 40% EtOH/H2O. By potentiometry, K1=1.99
-------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        K1=4.28        2002LDa (83190)2602
                                          for 1.0 M KCl in H2O K1=1.70
Medium:1.0 M KCl in MeOH;for 0.2 mass parts of MeOH/H2O K1=1.83;
for 0.6 mass parts of MeOH/H2O K1=2.72; Ag-electrode
-------------------------------------------------------------------------------
```

Ag+ ISE mixed 25°C 100% U I K1=2.61 2002LDa (83191)2603
for 1.0 M KCl in H2O K1=1.70
Medium:1.0 M KCl in n-Propanol;for 0.2 mass parts of PrOH/H2O K1=1.91;
for 0.6 mass parts of PrOH/H2O K1=1.75; Ag-electrode

Ag+ con alc/w 25°C 40% C K1=2.06 2001ISa (83192)2604
Medium: 40% v/v EtOH/H2O. By potentiometry, K1=2.07.

Ag+ cal mixed 25°C U I K1=0.35 2001USa (83193)2605
DH(K1)=-13.0 kJ mol-1
Medium: 0.97 mol parts DMSO in H2O; for 100% H2O K1=1.4; DH(K1)=-10.2
for 0.6 m.p. DMSO K1=1.0; DH(K1)=-18.2; for 0.2 m.p.DMSO K1=1.75

Ag+ gl oth/un 25°C 0.05M M IH T K1=1.50 2000BSa (83194)2606
Medium: 0.05 M Et4N[ClO4]. By calorimetry, DH=-9.1 kJ mol-1.
Also data for other media: DMSO, PC, DMI, AN, DMF, MeOH, TFE, EtOH, AN.

Ag+ EMF non-aq 30°C 100% C K1=2.78 1999KBa (83195)2607
Method: Ag/Ag+ electrode. Medium: N-methyl-2-pyrrolidinone.

Ag+ ISE alc/w 25°C C T H K1=2.72 1999LPa (83196)2608
Medium: 60% mass MeOH in H2O; for 100 H2O K1=1.77; for 100% MeOH:4.28
For 60% MeOH and T=45 C K1=2.56; T=35 C K1=2.62; Also data for 20,40, 80%

Ag+ cal non-aq 25°C 100% C H K1=2.62 1999WBa (83197)2609
Medium: N,N-dimethylformamide. DH(K1)=-18.1 kJ mol-1.

Ag+ EMF non-aq 25°C 100% C T K1=3.36 1998PSa (83198)2610
DH=-29.9 kJ mol-1, DS=-36 J K-1 mol-1. Method: Ag electrode.
Data for 10-55 C. Medium: EtOH

Ag+ cal oth/un 25°C 0.01M C T H K1=1.51 1997VOa (83199)2611
For T=35 C K1=1.46; for T=45 C K1=1.40

Ag+ con non-aq 25°C 100% C I K1=4.79 1993JHa (83200)2612
Medium: acetone. Data for DMF media.

Ag+ con oth/un 25°C 0.05M M K1=4.67 1992BUb (83201)2613
K1=4.58 (by calorimetry); K1=4.65 (by potentiometry)

Ag+ con non-aq 25°C 100% C K1=5.75 1992STa (83202)2614
Medium: propylene carbonate. By potentiometry with Ag electrode, K1=5.78.

Ag+ ix none 25°C 0.0 U K1=1.6 1991BMb (83203)2615

Ag+ ISE non-aq 25°C 100% C K1=6.86 1989BPa (83204)2616
Medium: anhydrous propylene carbonate, 0.1 M Et4NClO4

Ag+ cal non-aq 25°C 100% C H 1986BUe (83205)2617
Medium: MeOH. DH(K1)=-39.1 kJ mol-1, DS(K1)=-44.0 J K-1 mol-1.

Ag+ ISE non-aq 25°C 100% C K1=7.05 1983ANb (83206)2618
The equilibration took 7-12 days. Medium: PC, 0.10 M Et4NClO4

Ag+ cal alc/w 25°C 100% U H K1=4.58 1980BMa (83207)2619
Medium: MeOH. DH=-38.3 kJ mol-1.

Ag+ cal alc/w 25°C 100% U H T K1=4.58 1980LIa (83208)2620
Medium: MeOH. DH=-38.3 kJ mol-1.

Ag+ cal oth/un 25°C 0.10M U H T K1=1.5 1976ITb (83209)2621
DH=-9.08 kJ mol-1.

Ag+ ISE oth/un 25°C dil A K1=1.6 1971FRa (83210)2622
****
C12H24S6 L 18-Ane-S6 (7196)
1,4,7,10,13,16-Hexathiacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% U K1=12.67 1996ANa (83693)2623
Medium: MeOH, 0.1 M Bu4NClO4
****
C12H25NO5 L CAS 33941-15-0 (4939)
1,4,7,10,13-Pentaoxa-16-azacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF alc/w 25°C 100% C I K1=6.08 B2= 8.43 2003TCb (83697)2624
Medium: 100% MeOH. Also data for EtOH, DMSO, acetonitrile, propylene carbonate and nitromethane.

Ag+ EMF non-aq 25°C 100% C K1=3.56 B2= 5.40 1999THa (83698)2625
Medium: acetonitrile. Method: Ag/Ag+ electrode.

Ag+ EMF non-aq 25°C 100% U K1=3.05 B2= 4.64 1998HTb (83699)2626
Medium: DMSO. Method: Ag/Ag+ electrode

Ag+ ISE oth/un 25°C dil A K1=3.3 1971FRa (83700)2627
****
C12H26N2O2S2 L CAS 28843-76-7 (8376)
1,4-Dioxa-10,13-dithia-7,16-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C I K1=11.5 1994BCe (83722)2628
Method: Ag/Ag+ electrode. Medium: 100% MeOH, 0.05 M Et4NClO4. Data for acetone (K1=14.5), CH3CN (9.4), DMF (11.3), DMSO (8.7), CH3NO2 (15.4).

Ag+ cal non-aq 25°C 100% C I 1994BFb (83723)2629

Medium: 100% MeOH. DH(K1)=-67.7 kJ mol-1, DS(K1)=-2.0 J K-1 mol-1. Data for several media: acetone DH(K1)=-94.9, DS(K1)=-12.1; CH3CN (-58.9, -5.2)

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C12H26N2O4 L CAS 41775-36-4 (2470)
1,4,7,13-Tetraoxa-10,16-diazacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	con	non-aq	25°C	100%	C	I	K1=>6.5	1993JHa	(83728)2630

Medium: acetone. Data for DMF media.

****

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
Ag+	EMF	alc/w	25°C	100%	C		K1=9.43	2003TCb	(83762)2631

Medium: 100% EtOH.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE R4N.X		25°C	0.05M	U	H	K1=15.57	2002BSd	(83763)2632

Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-82.3 kJ mol-1, DS(K1)=17.1 J K-1 mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	non-aq	30°C	100%	C		K1=9.35	1999KBa	(83764)2633

Method: Ag/Ag+ electrode. Medium: MeOH.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	U		K1=3.30 B2= 5.26	1998HTb	(83765)2634

Medium: DMSO. Method: Ag/Ag+ electrode

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	C		K1=9.45	1995DGa	(83766)2635

Medium: benzonitrile, 0.05 M Et4NClO4. Method: Ag/Ag+ electrode.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	C	I	K1=7.9	1994BCe	(83767)2636

Method: Ag/Ag+ electrode. Medium: 100% CH3CN, 0.05 M Et4NClO4. Data for acetone (K1=13.4), DMF (9.9), DMSO (7.4), nitromethane (13.6), PC (15.6).

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	cal	non-aq	25°C	100%	C	I		1994BFb	(83768)2637

Medium: 100% MeOH. DH(K1)=-51.4 kJ mol-1, DS(K1)=5.7 J K-1 mol-1.
Data for several media: DMF, DH(K1)=-58.9, DS(K1)=-2.4; PC (-85.7, 3.4).

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	U	H	K1=7.6	1990MGa	(83769)2638

In acetonitrile, 0.1 M Et4NClO4. DH=-88 kJ mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	C T	H	K1=15.9	1986ALa	(83770)2639

Medium: propylene carbonate, 0.1 M Et4NClO4. DH and DS given

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	U	H	K1=7.93	1986BUb	(83771)2640

In CH3CN. DH=-30.5 kJ mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	cal	non-aq	25°C	100%	C	H		1986BUe	(83772)2641

Medium: MeOH. DH(K1)=-44.9 kJ mol-1, DS(K1)=40.3 J K-1 mol-1.

Ag+ ISE alc/w 25°C 100% U H K1=10.02 1985BUb (83773)2642
Medium: MeOH, 0.05M Et4NClO4. DH=-44.9 kJ mol-1

Ag+ gl R4N.X 25°C 0.10M C K1=7.27 1985CSb (83774)2643
Medium: 0.10 M Et4NClO4.

Ag+ ISE non-aq 25°C 100% C K1=13.3 1983ANb (83775)2644
The equilibration took 7-12 days. Medium: PC, 0.10 M Et4NClO4

Ag+ ISE non-aq 25°C 100% U I K1=13.63 1983CFa (83776)2645
Medium: CH3NO2. K1=13.39 in acetone; 9.91 in DMF; K1=7.39 in DMSO;
7.94 in MeCN; 9.99 in MeOH; 15.57 in propylene carbonate

Ag+ ISE R4N.X 25°C 0.10M U I K1=7.70 1983CSa (83777)2646
Also data for 0.05-1.0 mol fraction MeCN/H2O

Ag+ gl NaClO4 25°C 0.50M U K1=8.08 1981KMb (83778)2647

Ag+ ix non-aq 25°C 100% U K1=6.21 1981SAa (83779)2648
Medium: DMSO, 0.1 M R4NX

Ag+ gl alc/w 25°C 100% C K1=10.18 1980SAa (83780)2649
B(Ag2L)=15.51
Medium: MeOH, 0.05 M Et4NClO4

Ag+ gl R4N.X 25°C 0.10M C K1=7.90 1977ASc (83781)2650

Ag+ gl R4N.X 25°C 0.10M C H K1=7.8 1975ANa (83782)2651
Calorimetry: DH1=-38.3 kJ mol-1, DS1=20.9

Ag+ ISE oth/un 25°C dil A K1=7.8 1971FRa (83783)2652

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C12H26N2S4 L CAS 20934-69-4 (8375)
1,4,10,13-Tetrathia-7,16-diazacyclooctadecane;

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

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Ag+ EMF non-aq 25°C 100% C I K1=13.7 1994BCe (83935)2653
Method: Ag/Ag+ electrode. Medium: 100% MeOH, 0.05 M Et4NClO4. Data for
acetone (K1=15.9), CH3CN(10.9), DMF(12.3), DMSO (9.7), nitromethane (16.2)

Ag+ cal non-aq 25°C 100% C IH 1994BFb (83936)2654
Medium: 100% MeOH. DH(K1)=-83.2 kJ mol-1, DS(K1)=-5.0 J K-1 mol-1. Data
for several media: acetone, DH(K1)=-109.9, DS=-19.1; CH3CN (-75.7, -13.5).

****

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
Ag+	cal	oth/un	25°C	0.05M	M		K1=1.80		1992BUb	(83984)2655
Ag+	gl	non-aq	25°C	100%	C		K1=4.44		1989BPa	(83985)2656

Medium: anhydrous propylene carbonate, 0.1 M Et4NClO4

Ag+	ISE	alc/w	25°C	100%	U	H	K1=1.80		1985BUb	(83986)2657

Medium: MeOH, 0.05M Et4NClO4. DH=-15.8 kJ mol-1

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C12H27N L CAS 102-82-9 (1341)

Tributylamine; (C4H9)3N

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	C	I	K1=1.9		1999THa	(84039)2658

Medium: acetonitrile. Method: Ag/Ag+ electrode.
Also data for medium: DMSO

Ag+	oth	non-aq	23°C	100%	C		K2=0.26		1988SBa	(84040)2659

Medium: toluene, by I.R. spectroscopy.

Ag+	gl	alc/w	25°C	50%	U		K1=2.22	B2=3.82	1955ANc	(84041)2660

Medium: 50 mole% EtOH

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C12H27O4P L CAS 126-73-8 (2432)

Tri-n-butyl phosphate; (C4H9O)3PO

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	sol	non-aq	25°C	100%	U				1985MMb	(84117)2661
							K(AgNO3+L)=3.04			
							K(AgLNO3+L)=1.10			

Medium: benzene. Data for other solvents are also given.

****

C12H27P L CAS 998-40-3 (170)

Tri-n-butylphosphine; (CH3.(CH2)3)3P

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	U	H	K1=6.38	B2=10.24	1987HPb	(84131)2662
							B3=12.57			

In pyridine; medium: 0.1 M Et4NClO4

****

C12H27Sb L Tributylstibine CAS 2155-73-9 (5981)

Tributylantimony; (C4H9)3Sb

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	U	H	K1=2.70	B2=4.71	1987HPb	(84139)2663

In pyridine; medium: 0.1 M Et4NClO4

****

C12H28N2 L CAS 2783-17-7 (357)

1,12-Diaminododecane; H2N.(CH2)12.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	25°C	100%	U	H	K1=7.24	1985BUb	(84141)2664

Medium: MeOH, 0.05M Et4NClO4. DH=-49.4 kJ mol-1

****

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
Ag+	ISE	alc/w	25°C	100%	U	H	K1=11.2	1990CKb	(84225)2665

Medium: MeOH. DH=-59.5 kJ mol-1

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C12H28N4S2 L (6796)

1,10-Dithia-4,7,13,16-tetraazacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	R4N.X	25°C	0.10M	M	IH	K1=10.4	1990CKb	(84246)2666
							K(Ag+HL)=9.05		
							K(AgHL+H)=5.4		
							K(AgL+H)=7.91		
							K(Ag+H2L)=6.00		

Medium: 0.1 M Me4NNO3. Also K(AgH2L+H)=3.94; K(Ag+H3L)=4.13. In CH3OH: K1=14.1 (by ISE), DH=-77 kJ mol-1 (by calorimetry).

****

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
Ag+	EMF	KNO3	25°C	0.10M	C			1993GRa	(84318)2667
							K(Ag+H6L=AgH2L+4H)=12.03		

Method: Ag/Ag+ electrode.

****

C13H9N L Acridine CAS 260-94-6 (3398)

Acridine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	25°C	59%	U		B2=4.41	1952FYb	(84525)2668

****

C13H9N3OS HL TAN CAS 1147-56-4 (4030)

1-(1',3'-Thiazol-2'-ylazo)-2-hydroxynaphthalene;

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

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Ag+ dis oth/un 20°C 0.05M U K1=8.67 1966NAa (84611)2669

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C13H10N2 L CAS 3003-78-6 (2752)

5-Methyl-1,10-phenanthroline;

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

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Ag+ gl KNO3 25°C 0.10M C K1=7.3 B2=13.35 1974BOa (84800)2670

Ag+ ISE alc/w 25°C 50% U K1=5.34 B2=10.25 1972BBa (84801)2671

Medium: 50% EtOH, 0.1 M KNO3

****

C13H10O2S HL CAS 6310-24-3 (4981)

4-(Phenylthio)benzoic acid; C6H5.S.C6H4.COOH

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

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Ag+ ISE oth/un 25°C 0.20M U K1=2.44 1968PSb (84980)2672

Acetate buffer.

****

C13H10O3 HL CAS 5910-23-6 (3399)

Benzoyl-2-furoylmethane; C6H5.CO.CH2.CO.C4H3O

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

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Ag+ gl diox/w 30°C 75% U K1=5.74 1967SUa (84996)2673

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C13H12 L CAS 101-81-5 (3396)

Diphenylmethane; C6H5.CH2.C6H5

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

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Ag+ sol oth/un 25°C ? U K1=0.52 B2=0.54 1949AKa (85321)2674

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C13H12N2O L Diphenylurea CAS 603-54-3 (6137)

N,N-Diphenylcarbamide; (C6H5)2N.CO.NH2

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

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Ag+ ISE mixed 25°C 82% U K1=9.09 B2=11.12 1979TBd (85337)2675

Medium: 82% v/v DMFA/H2O; 0.2 M KNO3

****

C13H12N4S L Dithizone CAS 60-10-6 (1801)

Diphenylthiocarbazone; C6H5.NH.NH.CS.N:N.C6H5

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

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Ag+ sp NaClO4 25°C 0.10M U K1=6.98 1973BSe (85445)2676

****
C13H13N3 L CAS 102-06-7 (994)
sym-N,N'-Diphenylguanidine; C6H5.NH.C(NH).NH(C6H5)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ oth non-aq ? 100% U B2=10.3 1965MMa (85500)2677
Method: coulometric titration. Medium: acetone, 0.05 M Bu4NClO4
****
C13H14N2 L CAS 104986-55-2 (4972)
1,3-Bis(2'-pyridyl)-propane; C5H4N.CH2.CH2.CH2.C5H4N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 20°C 0.10M U K1=3.44 B2=6.43 1970BAa (85571)2678
****
C13H14N2O3 HL Antineoplaston CAS 91531-30-5 (8098)
3-(N-Phenylacetylamino)-2,6-piperidinedione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
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Ag+ gl alc/w 45°C 50% C K1=4.79 B2= 7.79 1996MMc (85625)2679
Medium: 50% v/v MeOH/H2O, 0.10 M KNO3.
****
C13H18O2S HL CAS 22683-51-8 (5002)
p-(n-Hexylthio)benzoic acid; CH3(CH2)5.S.C6H4.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C 0.20M U K1=2.84 1968PSb (86046)2680
Acetate buffer
****
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
---
Ag+ gl KNO3 20°C 0.10M U K1=8.05 1981SKf (86217)2681
K(AgL+H)=5.80
****
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
---
Ag+ gl KNO3 20°C 0.10M U K1=8.13 1981SKf (86272)2682
K(AgL+H)=5.84
****
C13H26OS L CAS 60838-34-8 (1929)
3-Methyl-5-thiatrideca-2-one; CH3.CO.CH(CH3).CH2.S.C8H17

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% U K1=4.51 B2=7.73 1989MSa (86456)2683
B3=9.85
B4=10.87
0.1 M NaClO4 in acetone.
****
C13H26OS6 L 19-Ane-S6-OH (7197)
3,6,9,12,15,18-Hexathiacyclononadecanol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% U K1=12.04 1996ANa (86457)2684
Medium: MeOH, 0.1 M Bu4NClO4
****
C13H26O4S2 L (6656)
1,5-Dithia-8,11,14,17-tetraoxacyclononadecane, 1,5-Dithia-19-crown-6;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ix none 25°C 0.0 U K1=11.0 1991BTa (86459)2685
****
C13H26O5 L (6410)
15,15-Dimethyl-1,4,7,10,13-pentaoxacyclohexadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ con none 25°C 0.0 C K1=0.92 2001KMb (86466)2686
****
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
---
Ag+ con oth/un 25°C dil C K1=0.93 1999TMa (86490)2687
Self medium (AgNO3).
****
C13H28N2S2 L (7061)
9-Methyl-1,5-dithia-9,13-diazacyclohexadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M M K1=7.27 1995RKa (86515)2688
B(AgHL)=14.83
B(AgH2L)=21.548
B(AgH2L2)=27.30
****
C14H9NO4 H2L Alizarin Maroon CAS 3963-78-8 (1052)
3-Amino-1,2-dihydroxyanthraquinone;

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.10M C    M   K1=6.45        1984ISe (86809)2689
                                          B(AgAL)=5.15
                                          B(AgBL)=4.9
HA is eosin, H2B is rosebengal.
********************************************************************************
C14H10                  L    Phenanthrene     CAS 85-01-8  (3419)
Phenanthrene;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sp  non-aq 25°C 100%  U        K1=0.587  B2=0.86   1991PZa (86877)2690
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C    ?  U        K1=0.56   B2=0.82   1949AKa (86878)2691
********************************************************************************
C14H12                  L    trans-Stilbene   CAS 103-30-0  (3420)
trans-Stilbene; C6H5.CH:CH.C6H5
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        dis KNO3   25°C  1.0M U        K1=0.80        1950AKa (87033)2692
                                         K(Ag+AgL)=-0.20
********************************************************************************
C14H12O2S              HL                    CAS 15774-73-9  (5053)
4-(Benzylthio)benzoic acid; C6H5.CH2.S.C6H4.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C 0.20M U        K1=2.76        1968PSb (87336)2693
Acetate buffer
********************************************************************************
C14H14N4                L                    CAS 98240-13-2  (4033)
N,N'-Bis(2'-picolinylidene)-1,2-diaminoethane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  20°C 100%  U        K1=9.78   B2=11.00  1966HSc (87677)2694
Medium: MeOH, 0.1 M NaNO3
********************************************************************************
C14H15N                 L                    CAS 103-49-1  (4034)
Dibenzylamine; C6H5.CH2.NH.CH2.C6H5
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  mixed  25°C  50%  U        K1=2.99   B2=6.70   1955ANb (87712)2695
Medium: 50 mole% EtOH
--------------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  50%  U        K1=2.99   B2=6.70   1955ANc (87713)2696
```

Medium: 50 mole% EtOH
****
C14H15N3O3S HL Methyl Orange CAS 547-58-0 (1059)
4-(4-(Dimethylamino)-phenylazo)benzenesulfonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE mixed 20°C 75% C K1=1.73 B2=2.20 1987KMa (87760)2697
K3=3.66
Medium: 75% v/v acetone/H2O
****
C14H15PS L (6777)
Diphenylphosphino(methylthio)methane; (C6H5)2P.CH2.SCH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% C H K1=6.57 B2=10.48 1990BZa (87800)2698
B3=12.69
Medium: DMSO; DH(K1)=-48.4, DH(B2)=-80.0, DH(B3)+-110 kJ mol-1;
DS(K1)=-37, DS(B2)=-68, DS(B3)=-126 J K-1 mol-1
****
C14H16N2 L CAS 1620-43-7 (5033)
1,4-Bis(2'-pyridyl)butane; C5H4N.CH2.CH2.CH2.CH2.C5H4N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 20°C 0.10M U K1=3.72 B2=6.44 1970BAa (87834)2699
****
C14H16N2O2S2 L CAS 729600-10-6 (9255)
2,3,5,6,8,9-Hexahydro[1,4,7,10]dioxadithiacyclododecino[2,3-b]quinoxaline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ nmr mixed 25°C 60% C K1=3.45 2004HHa (87878)2700
Method: 1H nmr. Medium: 60% CD2Cl2/CD3CN.
****
C14H18N4 L DPEN CAS 4608-34-3 (1850)
N,N'-Bis-(2-pyridylmethyl)-1,2-diaminoethane; (C5H4N.CH2.NH.CH2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M U H K1=6.15 1975APc (88102)2701
B(Ag2L2)=15.9
DH(Ag2L2)=-110.0 kJ mol-1, DS=-64.4 J K-1 mol-1
****
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
---

```
Ag+        ISE none   25°C  dil  C        K1=0.70        2004KUa (88209)2702
Method: Ag ion-selective electrode; self medium.
--------------------------------------------------------------------------------
Ag+        con mixed  25°C  90%  C        K1=1.38        2003ISa (88210)2703
Medium: 90% v/v DMSO/H2O. By potentiometry (Ag electrode), K1=1.37.
--------------------------------------------------------------------------------
Ag+        con mixed  25°C  20%  C        K1=4.13        2003SIa (88211)2704
Medium: 20% w/w propylene carbonate/ethylene carbonate. By potentiometry
(Pt/Ag electrode), K1=4.12.
--------------------------------------------------------------------------------
Ag+        con alc/w  25°C  40%  C        K1=1.08        2002ISa (88212)2705
Medium: 40% EtOH/H2O. By potentiometry, K1=1.08
--------------------------------------------------------------------------------
Ag+        con alc/w  25°C  40%  C        K1=1.16        2001ISa (88213)2706
Medium: 40% v/v EtOH/H2O. By potentiometry, K1=1.15.
--------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  C        K1=4.67   B2= 8.87  2000ICa (88214)2707
Medium: nitromethane.
--------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  C   H    K1=1.91        1999WBa (88215)2708
Medium: N,N-dimethylformamide. By calorimetry: DH(K1)=-7.6 kJ mol-1.
--------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  C        K1=3.50        1993JHa (88216)2709
Medium: acetone.
--------------------------------------------------------------------------------
Ag+        cal non-aq 25°C 100%  C   H    K1=2.63        1986ICa (88217)2710
Medium: MeOH. DH(K1)=-17.9 kJ mol-1, DS(K1)=-9.6 J K-1 mol-1.
********************************************************************************
C14H21NS3              L                        (7474)
10-Phenyl-1,4,7-trithia-10-azacyclododecane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C        K1=5.92   B2= 7.62  1999ISa (88410)2711
                                         K(AgL+Ag)=1.2
Medium: acetonitrile, 0.1 M Me4NClO4
********************************************************************************
C14H22                 L                    CAS 38842-05-6  (3422)
1,2,3,4-Tetraethylbenzene; C6H2(CH2.CH3)4
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C 0.50M U        K1=0.02        1956OAa (88419)2712
********************************************************************************
C14H22                 L                    CAS 33673-20-6  (3423)
1,2,3,5-Tetraethylbenzene; C6H2(CH2.CH3)4
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        sol oth/un 25°C 0.50M U        K1=0.13        1956OAa (88420)2713
```

****
C14H22 L CAS 635-81-4 (3424)
1,2,4,5-Tetraethylbenzene; C6H2(CH2.CH3)4

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C 0.50M U K1=0.12 1956OAa (88421)2714
****
C14H22 L CAS 1571-86-4 (3421)
1,4-Di-t-butylbenzene; (CH3)3C.C6H4.C(CH3)3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C 0.50M U K1=0.21 1956OAa (88422)2715
****
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
---
Ag+ gl KNO3 20°C 0.10M U K1=8.15 1981SKf (88534)2716
K(AgL+H)=6.60

Ag+ ISE KNO3 25°C 0.10M U K1=8.41 1968WRa (88535)2717

Ag+ dis NaClO4 20°C 0.10M U K1=8.15 1963STc (88536)2718
Medium: KClO4
****
C14H23NS2 L (7476)
6-Phenyl-3,9-dithia-6-azaundecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C K1=3.59 1999ISa (89006)2719
Medium: acetonitrile, 0.1 M Me4NClO4
****
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
---
Ag+ ISE KNO3 25°C 0.10M U K1=8.70 1968WRa (89100)2720
****
C14H24N2O8 H4L CAS 1633-00-7 (5076)
4-Methyl-1,2-diaminopentane-N,N,N',N'-tetraethanoic acid;
(HOOCCH2)2NCH2CH(N(CH2COOH)2CH2CH(CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 20°C 0.10M U K1=8.10 1981SKf (89623)2721

K(AgL+H)=5.85

****

C14H24N2O10 EGTA CAS 67-42-5 (349)
Ethyleneglycol-O,O'-bis(2-aminoethyl ether)-N,N,N',N'-tetraethanoic acid; H4L

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	KNO3	25°C	0.10M	U		K1=7.06	1968WRa	(89795)2722
Ag+	gl	KNO3	20°C	0.10M	U		K1=6.88	1963FCa	(89796)2723

K(Ag+HL)=4.93

****

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
Ag+	ISE	R4N.X	25°C	0.05M	U	H	K1=15.17	2002BSd	(90308)2724

Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-91.3 kJ mol-1, DS(K1)=-17.1 J K-1 mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	C	H	K1=8.55	1999WBa	(90309)2725

Medium: N,N-dimethylformamide. Method: Ag+ ISE.
By calorimetry: DH(K1)=-59.6 kJ mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	U	I	K1=9.34	1993LRa	(90310)2726

Medium: triethylphosphate, 0.05 M Et4NClO4.
Data also for tri-n-butylphosphate: K1=7.83

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	R4N.X	25°C	0.05M	U		K1=9.82	1991LRc	(90311)2727

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	U	H	K1=7.6	1990MGa	(90312)2728

In acetonitrile, 0.1 M Et4NClO4. DH=-36 kJ mol-1.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	C	I	K1=7.61	1989LEb	(90313)2729

In acetonitrile + 0.1 M Et4NClO4. Also DMSO (6.25), DMA (7.05), DMF (8.83), acetone (12.02), sulpholane (13.42) and propylene carbonate (14.95)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	40°C	100%	C	T H	K1=14.9	1986ALa	(90314)2730

Medium: propylene carbonate, 0.1 M Et4NClO4. DH and DS given

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	U	H	K1=7.74	1986BUb	(90315)2731

In CH3CN. DH=-47.5 kJ mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	alc/w	25°C	100%	U	H	K1=10.46	1985BUb	(90316)2732

Medium: MeOH, 0.05M Et4NClO4. DH=-54.6 kJ mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	R4N.X	25°C	0.10M	C	TIH	K1=6.98	1984CSb	(90317)2733

Ag/Ag+ electrode. Medium: 0.10 M Et4NClO4. Data for 5-35 C. DH(K1)=-42.0 kJ mol-1, DS=3.4 J K-1 mol-1. Data 0-1 mol fraction AN/H2O, 0.1 M NaClO4.

Ag+ ISE non-aq 25°C 100% U I K1=7.70 1981CRa (90318)2734
Medium: MeCN. In DMF: K1=8.60; in EtOH: 9.70; in DMSO: 6.17; in PC: 14.44; in N-methylpropanoamide: 7.64

Ag+ ix non-aq 25°C 100% U K1=5.45 1981SAa (90319)2735
Medium: DMSO, 0.1 M R4NX. In propylene carbonate: K=15.00

Ag+ ISE non-aq 25°C 100% U K1=14.4 1980CRa (90320)2736
Medium: Propylene carbonate

Ag+ gl alc/w 25°C 100% C K1=10.30 1980SAa (90321)2737
Medium: MeOH, 0.05 M Et4NClO4

Ag+ EMF non-aq 25°C 100% C K1=8.5 1979BLb (90322)2738
Method: Ag electrode. Medium: MeOH, 0.05 M Me4NClO4.

Ag+ ISE alc/w 25°C 100% U K1=10.6 1978CSb (90323)2739
Medium: MeOH
****
C14H28N2O4 L Cryptand 2,2,0 CAS 95334-31-9 (6544)
4,7,13,16-Tetraoxa-1,10-diazabicyclo[8.8.2]eicosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% U I K1=9.4 1991ALa (90459)2740
Medium: MeCN, 0.05 M Et4NClO4. In acetone K1=13.1, MeOH K1=10.2, DMF K1=9.4, in pyridine K1=5.0.
****
C14H28OS6 L 21-Ane-S6-OH (7198)
3,6,9,13,16,19-Hexathiacycloicosanol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% U K1=11.49 1996ANa (90506)2741
Medium: methanol; 0.1 M N(C4H9)4ClO4.
****
C14H28O2 HL Myristic acid CAS 544-63-8 (2543)
Tetradecanoic acid; CH3(CH2)12.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ oth oth/un 20°C var U 1981HTc (90507)2742
Kso=-10.25
****
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
---

```
Ag+        ISE non-aq 25°C 100%  C        K1=5.79        1989BPa (90512)2743
Medium: anhydrous propylene carbonate, 0.1 M Et4NClO4
--------------------------------------------------------------------------
Ag+        cal alc/w  25°C 100%  U   H    K1=2.46        1980LIa (90513)2744
Medium: MeOH. DH=-28.9 kJ mol-1.
**************************************************************************
C14H29NO6               L    Aza-21-crown-7   CAS 66843-21-8  (9236)
1,4,7,10,13,16-Hexaoxa-19-azacycloheneicosane;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        EMF alc/w  25°C 100%  C  I     K1=5.27   B2= 8.34  2003TCb (90549)2745
Medium: 100% MeOH. Also data for EtOH, DMSO, acetonitrile, propylene
carbonate and nitromethane.
**************************************************************************
C14H30N2O2             HL                     CAS 61559-48-6  (8377)
1,4-Dioxa-7,16-diazacyclooctadecane;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C  I     K1=9.0         1994BCe (90559)2746
Method: Ag/Ag+ electrode. Medium: 100% MeOH, 0.05 M Et4NClO4. Data for
acetone (K1=12.3), CH3CN (7.6), DMF (9.4), DMSO (6.9), nitromethane (12.9)
--------------------------------------------------------------------------
Ag+        cal non-aq 25°C 100%  C  I                    1994BFb (90560)2747
Medium: 100% MeOH. DH(K1)=-50.6 kJ mol-1, DS(K1)=1.0 J K-1 mol-1.
Data for several media: DMF, DH(K1)=-69.0, DS(K1)=-15.2;  PC (-107, -22).
**************************************************************************
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
--------------------------------------------------------------------------
Ag+        EMF alc/w  25°C 100%  C  I     K1=9.42        2003TCb (90600)2748
Medium: 100% MeOH. Also data for EtOH and propylene carbonate.
--------------------------------------------------------------------------
Ag+        ISE R4N.X  25°C 0.05M U   H    K1=15.34       2002BSd (90601)2749
Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M
Et4NClO4. By calorimetry: DH(K1)=-96.4 kJ mol-1, DS(K1)=-30.9 J K-1 mol-1.
--------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C        K1=7.49        1999THa (90602)2750
Medium: acetonitrile. Method: Ag/Ag+ electrode.
--------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  U        K1=6.74        1998HTb (90603)2751
Medium: DMSO. Method: Ag/Ag+ electrode
--------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        K1=9.29        1988CFa (90604)2752
Medium: MeOH
--------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U   H    K1=9.60        1985BUb (90605)2753
```

Medium: MeOH, 0.05M Et4NClO4. DH=-53.4 kJ 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
---
Ag+ ISE non-aq 25°C 100% U K1=9.34 1993RPa (90621)2754
Medium: dimethylformamide, 0.05 M Et4NClO4.
****
C14H30N2S2 L CAS 160389-59-3 (8378)
1,4-Dithia-7,16-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C I K1=10.9 1994BCe (90640)2755
Method: Ag/Ag+ electrode. Medium: 100% MeOH, 0.05 M Et4NClO4. Data for acetone (K1=13.2), CH3CN (8.5), DMF(10.2), DMSO (8.0), nitromethane (14.6)

Ag+ cal non-aq 25°C 100% C I 1994BFb (90641)2756
Medium: 100% CH3CN. DH(K1)=-66.6 kJ mol-1, DS(K1)=-18.1 J K-1 mol-1.
Data for several media: DMF, DH(K1)=-87.4, DS(K1)=-29.2; PC (-118, -27).
****
C14H30O7 L CAS 1072-40-8 (2499)
2,5,8,11,14,17,20-Heptaoxaheneicosane; CH3.O.(CH2.CH2.O)6.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% C K1=5.02 1989BPa (90680)2757
Medium: anhydrous propylene carbonate, 0.1 M Et4NClO4

Ag+ ISE alc/w 25°C 100% U H K1=1.82 1985BUb (90681)2758
Medium: MeOH, 0.05M Et4NClO4. DH=-23.0 kJ mol-1
****
C14H32N2O4 L CAS 102-60-3 (2678)
Tetra(2-hydroxypropyl)-N,N,N',N'-diaminoethane;(-CH2.N(CH2.CH(OH).CH3)2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl oth/un 27°C 0.05M U K1=4.38 1959KEc (90733)2759
****
C14H32N4 L CAS 68966-28-9 (5390)
1,5,10,14-Tetraazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 20°C 0.10M U B2=8.0 1984SLb (90807)2760
B(Ag2L3)=16.6
****
C15H11N3 L CAS 1148-79-4 (488)

2,2':6'2"-Terpyridine; C5H4N.C5H3N.C5H4N

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	U		K1=5.27 B2=8.66	1991IGa (91141)	2761

Medium: propylenecarbonate, 0.1 M R4NX

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	U		K1=5.79 B2=9.68	1989IGb (91142)	2762
Ag+	ISE	non-aq	25°C	100%	U		K1=4.82	1989IGb (91143)	2763

Medium: CH3CN, 0.1 Et4NClO4

****

C15H11N3O HL PAN CAS 85-85-8 (572)

1-(2-Pyridylazo)-2-naphthol; C5H4N.N:N.C10H6.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	cal	diox/w	25°C	55%	U	H	K1=4.02 B2=8.31 K(Ag+L=Ag(OH)L+H)=-6.97 B(AgHL)=11.63	1986ISa (91199)	2764

DH(K1)=-34.5, DH(K2)=-40.1 kJ mol-1, DS(K1)=-39.0, DS(K2)=-52.0 J K-1 mol-1.

Medium: 3M LiClO4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	cal	NaClO4	25°C	3.00M	U	H		1986ISa (91200)	2765

DH(K1)=-28.2, DH(K2)=-38.9 kJ mol-1, DS(K1)=-26, DS(K2)=-56 J K-1 mol-1

****

C15H12OS HL (1261)

mono-Thiodibenzoylmethane; C6H5.CO.CH2.CS.C6H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	diox/w	30°C	75%	U		K1=5.39	1967SUa (91481)	2766

****

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
Ag+	gl	diox/w	30°C	75%	U		K1=6.07	1967SUa (91530)	2767

****

C15H15N3O2 HL Methyl Red CAS 493-52-7 (1089)

2-(4-(Dimethylamino)phenylazo)benzoic acid; (CH3)2N.C6H4.N:N.C6H4.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	ISE	mixed	20°C	75%	C		K1=1.31 B2=3.27 K3=1.81	1987KMa (91887)	2768

Medium: 75% v/v acetone/H2O

****

C15H15O2As HL CAS 70096-43-4 (4068)

3-(Diphenylarsino)propanoic acid; (C6H5)2As.CH2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	diox/w	20°C	20%	U		K1=3.87		1964PIa (91911)	2769
							K(Ag+HL)=2.3			

Medium: 20% dioxan, 0.10 M KNO3

****

C15H15O2P HL CAS 85209-41-2 (4067)

3-(Diphenylphosphino)propanoic acid; (C6H5)2P.CH2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	diox/w	20°C	20%	U		K1=3.80		1964PIa (91917)	2770
							K(Ag+HL)=2.7			

Medium: 20% dioxan, 0.10 M KNO3

****

C15H17PS L (6779)

1-Thiomethyl-2-(diphenylphosphino)ethane; CH3S.CH2.CH2.P(C6H5)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	C	H	K1=12.08	B2=21.70	1995BTa (91990)	2771
							B3=24.43			
							B(Ag2L)=15.05			
							B(Ag2L2)=26.79			

Medium: propylene carbonate. DH(K1)=-87 kJ mol-1, DS=-61 J K-1 mol-1; DH(B2) =-152, DS=-94; DH(B3)=-182, DS=-143; DH(Ag2L)=-105, DS=-64; DH(Ag2L2)=-201.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	non-aq	25°C	100%	C	H	K1=7.18	B2=12.68	1990BZa (91991)	2772
							B3=15.31			

Medium: DMSO; DH(K1)=-54.5, DH(B2)=-104, DH(B3)=-137 kJ mol-1. With the thio -ethyl analogue:K1=7.40,B2=12.99,B3=15.5; DH(K1)=-56,DH(B2)=-106,DH(B3)=-139

****

C15H18NO7Cl L CAS 71022-76-9 (2322)

19-Chloro-3,6,9,12,15-pentaoxa-21-azabicyclo[15.3.1]heneicosa-1(21),17,19-teiene-2, 16-dione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	cal	alc/w	25°C	100%	U	H	K1=3.76		1980BMa (91992)	2773

Medium: MeOH. DH=-33.6 kJ mol-1.

****

C15H18N2 L CAS 25382-73-6 (5106)

1,5-Bis(2-pyridyl)-pentane; C5H4N.(CH2)5.C5H4N

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	20°C	0.10M	U		K1=4.52		1970BAa (92000)	2774
							K(Ag+HL)=1.7			

****
C15H19NO7 L CAS 64397-58-4 (2170)
3,6,9,12,15-Pentaoxa-21-azabicyclo[15.3.1]heneicosa-1(21),17,19-triene-2,16-dione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ cal alc/w 25°C 100% U H K1=4.88 1980BMa (92111)2775
Medium: MeOH. DH=-32.8 kJ mol-1.

Ag+ cal alc/w 25°C 100% U H K1=4.88 1980LIb (92112)2776
Medium: MeOH. DH=-32.8 kJ mol-1.

Ag+ sp alc/w 25°C 100% U H K1=4.88 1977ILc (92113)2777
Medium: Methanol. DH(K1)= -32.8 kJ mol-1
****
C15H20N4 L DPTN CAS 63671-70-5 (1851)
N,N'-Bis-(2-pyridylmethyl)-1,3-diaminopropane; (C5H4N.CH2.NH.CH2)2CH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M U H K1=6.12 1975APc (92178)2778
DH(K1)=-45.6 kJ mol-1 DS=-32.2 J K-1 mol-1
****
C15H23NO5 L CAS 53914-89-9 (2262)
3,6,9,12,15-Pentaoxa-21-azabicyclo[15.3.1]heneicosa-1(21),17,19-triene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ cal alc/w 25°C 100% U H K1=>5.5 1980BMa (92261)2779
Medium: MeOH. DH=-34.9 kJ mol-1.

Ag+ cal alc/w 25°C 100% U H K1=>5.5 B2=8.1 1980LIa (92262)2780
Medium: MeOH. DH(K1)=-34.9 and DH(K2)=-10.8 kJ mol-1.
`

Ag+ sp alc/w 25°C 100% U H K1=>6.0 B2=8.6 1977ILc (92263)2781
Medium: Methanol. DH(K1)= -34.9 and DH(K2)=-10.8 kJ mol-1
****
C15H24 L CAS 717-74-8 (3442)
1,3,5-Tri-isopropylbenzene; C6H3(CH(CH3)2)3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C 0.50M U K1=0.20 1956OAa (92327)2782
****
C15H30N2O3 L CAS 72640-82-5 (6040)
4,7,13-Trioxa-1,10-diazabicyclo[8.5.5]eicosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
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```
Ag+        EMF non-aq 25°C 100%  U  I     K1=5.68        1993LRa (92509)2783
Medium: triethylphosphate, 0.05 M Et4NClO4
Data also for tri-n-butylphosphate: K1=4.94
--------------------------------------------------------------------------------
Ag+        gl  R4N.X  25°C 0.05M U        K1=6.04        1991LRc (92510)2784
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I     K1=4.29        1990LAa (92511)2785
Medium: MeCN, 0.05 M Et4NClO4.  In MeOH: K1=7.69
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I     K1=5.19        1986LSc (92512)2786
Medium: DMF, 0.05 M Et4NClO4. Method: Ag wire electrode. In MeOH K1=7.62.
Data also in acetone,PC,CH3CN etc.
********************************************************************************
C15H33N                 L                      CAS 621-77-2  (8928)
Tripentylamine;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        cal R4N.X  25°C 0.05M C   H                    2002BSd (92560)2787
Medium: propylene carbonate, 0.05 M Et4NClO4. DH(K1)=-32.1 kJ mol-1.
********************************************************************************
C15H33NO6               L                      CAS 70384-51-9  (838)
Tris(3,6-dioxaheptyl)amine; (CH3.CH2.O.CH2.CH2.O.CH2.)3N
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE R4N.X  25°C 0.05M U   H    K1=8.47        2002BSd (92561)2788
Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M
Et4NClO4. By calorimetry:  DH(K1)=-67.9 kJ mol-1, DS(K1)=-66.4 J K-1 mol-1
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C T H    K1=8.5         1986ALa (92562)2789
Medium: propylene carbonate, 0.1 M Et4NClO4. DH, DS given.
********************************************************************************
C15H33N3O3              L                      CAS 220811-82-5  (7916)
1,4,7-Tris((S)-2-hydroxypropyl)-1,4,7-triazacyclononane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  U        K1=7.59        2001WBa (92572)2790
Medium: DMF, 0.05 M Et4NClO4. Also data for the 1,4,7-tris((S)-2-hydroxy-
2-phenyethyl- derivative (K1=7.59).
********************************************************************************
C16H12N2                L                        (6848)
6-Phenyl-2,2'-bipyridyl;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE non-aq 22°C 100%  U        K1=3.38   B2=9.21   1991IGb (92906)2791
Medium: MeCN
********************************************************************************
```

C16H12N2O4S H2L Tropeolin 000 CAS 573-89-7 (1092)
4-(4-Hydroxy-1-naphthylazo)benzene-4-sulfonic acid, Orange 1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	mixed	20°C	75%	C		K1=3.31	B2=3.35	1987KMa	(93010)2792
							K3=4.47			

Medium: 75% v/v acetone/H2O

****

C16H16N2 L CAS 104-71-2 (4074)
1,2-Bis(benzylideneamino)ethane; C6H5.CH:N.CH2.CH2.N:CH.C6H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	alc/w	20°C	100%	U		K1=6.48	B2=8.36	1966HSc	(93656)2793

Medium: MeOH, 0.1 M NaNO3

****

C16H20NP L CAS 115290-71-6 (5883)
Diphenyl-(2-N,N-dimethylaminoethyl)phosphine; (C6H5)2P.CH2.CH2.N(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	C	H	K1=12.87	B2=22.09	1999DDb	(93948)2794
							B3=24.45			
							B(Ag2L)=15.74			
							B(Ag2L2)=28.66			

Medium: propylenecarbonate, 0.1 M NEt4ClO4. By calorimetry: DH(K1)=-94 kJ mol-1, DH(B2)=-152, DH(B3)=-184, DH(Ag2L)=-107, DH(Ag2L2)=-215.

****

C16H20N2 L (5146)
1,6-Bis(2-pyridyl)-hexane; C5H4N.(CH2)6.C5H4N

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	20°C	0.10M	U		K1=4.1		1970BAa	(93954)2795
							K(Ag+HL)=1.9			

****

C16H22N4 L DPTE CAS 81747-99-1 (1852)
N,N-Bis-(2-pyridyl-methyl)-1,4-diaminobutane; (C5H4N.CH2.NH.CH2.CH2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	KNO3	25°C	0.10M	U	H	K1=5.82		1975APc	(94178)2796

DH(K1)=-48.1 kJ mol-1 DS=50.6 J K-1 mol-1

****

C16H24O6 L Benzo18-crown-6 CAS 14098-24-9 (513)
2,3-Benzo-1,4,7,10,13,16-hexaoxacyclooctadeca-2-ene;

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

Ag+ ISE none 25°C dil C M 2004KUa (94368)2797
Method: Ag ion-selective electrode; self medium. For extraction into CHCl3, K(Ag+L(org)+HA(org)=AgLA(org)+H)=2.46. HA is picric acid.

Ag+ con non-aq 25°C 100% C K1=4.89 B2= 8.58 2000ICa (94369)2798
Medium: nitromethane.

Ag+ cal non-aq 25°C 100% C H K1=2.71 1999WBa (94370)2799
Medium: N,N-dimethylformamide. DH(K1)=-17.4 kJ mol-1.

Ag+ ISE none 25°C 0.0 U K1=1.83 1989TKa (94371)2800

Ag+ cal non-aq 25°C 100% C H K1=4.23 1986ICa (94372)2801
Medium: MeOH. DH(K1)=-39.7 kJ mol-1, DS(K1)=-52.4 J K-1 mol-1.
****
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
---
Ag+ EMF non-aq 25°C 100% C K1=0.78 1998ACa (94507)2802
Medium: CH3CN

Ag+ con mixed 25°C 90% C TIH K1=4.93 1998MTa (94508)2803
Medium: 90% CH3CN/H2O. Data for 20-35 C. DH(K1)=3.4 kJ mol-1, DS(K1)=82.8 J K-1 mol-1. In 50% CH3CN/H2O, K1=3.99, DH(K1)=3.5, DS(K1)=64.8.
****
C16H25NS4 L (7475)
13-Phenyl-1,4,7,10-tetrathia-13-azacyclopentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C K1=5.67 B2= 8.07 1999ISa (94523)2804
Medium: acetonitrile, 0.1 M Me4NClO4
****
C16H26 L (3452)
Pentaethylbenzene; C6H(CH2.CH3)5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C 0.50M U K1=0.02 1956OAa (94539)2805
****
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
---
Ag+ ISE alc/w 25°C 100% U K1=9.74 1988CFa (94553)2806
Medium: MeOH
****

C16H28N2O7 L CAS 31249-96-4 (8934)
4,7,13,16,21-Pentaoxa-1,10-diazabicyclo[8.8.5]tricosane-2,9-dione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE R4N.X 25°C 0.05M U H K1=4.26 2002BSd (94699)2807
Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-27.8 kJ mol-1, DS(K1)=-12.1 J K-1 mol-1.
****
C16H28N4O4 L CAS 120129-34-2 (8665)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7,16-diacetonitrile;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE R4N.X 25°C 0.05M C H K1=6.71 2002BSb (94805)2808
Medium: 0.05 M Et4NClO4. DH(K1)=-44.7 kJ mol-1, DS(K1)=-22 J K-1 mol-1.
****
C16H30O6 L CAS 17454-53-4 (5148)
Cyclohexyl-18-crown-6;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 25°C dil A K1=1.8 1971FRa (95098)2809
****
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
---
Ag+ ISE R4N.X 25°C 0.05M U H K1=18.89 2002BSd (95137)2810
Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-113.6 kJ mol-1, DS(K1)=-21.1 J K-1 mol-1

Ag+ ISE non-aq 25°C 100% C H K1=12.53 1999WBa (95138)2811
Medium: N,N-dimethylformamide. Method: Ag+ ISE.
By calorimetry: DH(K1)=-85.2 kJ mol-1.

Ag+ EMF non-aq 25°C 100% C K1=9.56 1995CDb (95139)2812
Medium: DMSO, 0.1 M Et4NClO4.

Ag+ ISE non-aq 25°C 100% U K1=11.1 1990MGa (95140)2813
In acetonitrile, 0.1 M Et4NClO4.

Ag+ ISE non-aq 25°C 100% C I K1=11.17 1989LEb (95141)2814
In acetonitrile + 0.1 M Et4NClO4. Also DMSO (9.58), DMA (10.69), DMF(12.37) acetone (15.86), sulpholane (16.80) and propylene carbonate (18.63)

Ag+ ISE non-aq 30°C 100% C T H K1=18.5 1986ALa (95142)2815
Medium: propylene carbonate, 0.1 M Et4NClO4. DH and DS given

Ag+ ISE non-aq 25°C 100% U H K1=11.29 1986BUb (95143)2816
In CH3CN. DH=-62.7 kJ mol-1

Ag+ ISE alc/w 25°C 100% U H K1=14.44 1985BUb (95144)2817
Medium: MeOH, 0.05M Et4NClO4. DH=-81.9 kJ mol-1

Ag+ ISE R4N.X 25°C 0.10M U I K1=11.90 1983CSa (95145)2818
Also data for 0.05-1.0 mol fraction MeCN/H2O

Ag+ gl R4N.X 25°C 0.10M U K1=12.43 1982NSb (95146)2819

Ag+ ISE non-aq 25°C 100% U I K1=11.24 1981CRa (95147)2820
Medium: MeCN. In PC: K1=18.50; in EtOH: 13.84; in DMF: 12.41; in DMSO: 9.61;
in N-methylpropanoamide: 10.45

Ag+ ix non-aq 25°C 100% U K1=9.73 1981SAa (95148)2821
Medium: DMSO, 0.1 M R4NX. In propylene carbonate: K1=18.80

Ag+ ISE non-aq 25°C 100% U K1=18.5 1980CRa (95149)2822
Medium: Propylene carbonate

Ag+ gl alc/w 25°C 100% C K1=14.30 1980SAa (95150)2823
B(Ag2L)=19.50
Medium: MeOH, 0.05 M Et4NClO4

Ag+ ISE alc/w 25°C 100% U K1=14.64 1978CSb (95151)2824
Medium: MeOH

Ag+ gl R4N.X 25°C 0.05M U K1=10.6 1975LSc (95152)2825
****
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
---
Ag+ cal alc/w 25°C 100% U H K1=>5 1990KMb (95316)2826
Medium: MeOH. DH=-59.1 kJ mol-1
****
C16H32N4O6 L CAS 98608-90-3 (1322)
N,N'-Bis(carbamoylmethyl)-1,7,10,16-tetraoxa-4,13-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaClO4 25°C 0.50M U K1=6.25 1981KMb (95330)2827
****
C16H34N2 L CAS 296-30-0 (8379)
1,10-Diazacyclooctadecane;

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

```
Ag+        EMF non-aq 25°C 100%  C  I     K1=4.8         1994BCe (95401)2828
Method: Ag/Ag+ electrode. Medium: 100% MeOH, 0.05 M Et4NClO4. Data for
acetone (K1=9.4), CH3CN (4.8), DMF(6.4), DMSO (4.1), nitromethane (10.5)
-------------------------------------------------------------------------
Ag+        cal non-aq 25°C 100%  C  I                    1994BFb (95402)2829
Medium: 100% MeOH. DH(K1)=-48.1 kJ mol-1, DS(K1)=-20.8 J K-1 mol-1.
Data for several media: DMF, DH(K1)=-61.0, DS(K1)=-24.5;  PC (-95.3, -27).
*************************************************************************
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
-------------------------------------------------------------------------
Ag+        EMF alc/w  25°C 100%  U  I     K1=9.86        1994LLa (95407)2830
Medium: MeOH, 0.05M Et4NClO4.  Also data for acetonitrile: K=7.08,
PC: K=12.2, DMF: K=8.37, H2O: K=1.8 and pyridine: K=6.24.
*************************************************************************
C16H34N2O6             L                     CAS 83809-94-3  (8664)
7,16-Bis(methoxymethyl)-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE R4N.X  25°C 0.05M C   H    K1=9.19        2002BSb (95430)2831
Medium: 0.05 M Et4NClO4. DH(K1)=-60.3 kJ mol-1, DS(K1)=26 J K-1 mol-1.
*************************************************************************
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
-------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        K1=9.13        1993RPa (95438)2832
Medium: dimethylformamide, 0.05 M Et4NClO4.
-------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.50M U        K1=7.27        1981KMb (95439)2833
*************************************************************************
C16H34N4O2             L                     CAS 60598-04-1  (1530)
4,7-Dimethyl-1,4,7,10-tetraaza-13,18-dioxabicyclo[8,5,5]eicosane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE R4N.X  25°C 0.10M U        K1=12.7        1978LMa (95465)2834
                                        K(Ag+HL)=6.3
*************************************************************************
C16H36N4               L                     CAS 3713-77-7  (5391)
1,6,11,16-Tetraazacycloeicosane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE KNO3   20°C 0.10M U        K1=5.7    B2=8.3    1984SLb (95525)2835
*************************************************************************
```

C16H36N4O2 L (6803)
1,10-Oxa-4,7,13,16-tetramethyl-4,7,13,16-tetraazacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	alc/w	25°C	100%	U	H	K1=13.4		1990CKb	(95542)2836

Medium: MeOH. DH=-84.3 kJ mol-1

****

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
Ag+	EMF	non-aq	25°C	100%	U	I	K1=9.35		1996WPa	(95563)2837

Medium: acetonitrile, 0.05 M NEt4ClO4. In propylene carbonate K1=14.00

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	alc/w	25°C	100%	C	I	K1=12.57		1993TCa	(95564)2838

Medium: MeOH, 0.05 M Et4NClO4. In DMF, K1=11.16

****

C16H36N4S2 L (6797)
1,10-Dithia-4,7,13,16-tetramethyl-4,7,13,16-tetraazacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	R4N.X	25°C	0.10M	M	IH	K1=9.47		1990CKb	(95583)2839
							K(Ag+HL)=8.06			
							K(AgHL+H)=4.6			
							K(AgL+H)=7.41			

Medium: 0.1 M Me4NNO3. In MeOH: K1=14.6 (byISE), DH=-102.1 kJ mol-1(calor.)

****

C17H14NP L CAS 37943-90-1 (7725)
2-(Diphenylphosphino)pyridine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	gl	non-aq	25°C	100%	U	IH	K1=6.34	B2=10.19	2000CDb	(95785)2840
							B3=12.64			

Medium: DMSO. Also data for medium of propylene carbonate.
DH(K1)=-51.0 kJ mol-1, DH(B2)=-87.8, DH(B3)=-124.1.

****

C17H16N2S2 L CAS 239107-97-2 (3778)
4-[4'-(Benzothiazol-2"-yl)phenyl]-1-thia-4-azacyclohexane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	nmr	diox/w	25°C	52%	C		K1=3.29		1999ISb	(96045)2841

Medium: 52% v/v 1,4-dioxane-water. Method: 1H nmr.

****

C17H20N4O6 HL Riboflavin CAS 83-88-5 (1438)
7,8-Dimethyl-10(D-1'-ribityl)isoalloxazine, Vitamin B2, Vitamin H

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KCl 25°C 0.10M U K1=7.6 1959BMb (96326)2842
****
C17H22NP L (7480)
1-(Diphenylphosphino)-3-(dimethylamino)propane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C H K1=13.4 B2=20.87 1999DDb (96398)2843
B3=24.02
B(Ag2L)=16.80
B(Ag2L2)=31.1
Medium: propylenecarbonate, 0.1 M NEt4ClO4. By calorimetry: DH(K1)=-95 kJ mol-1, DH(B2)=-142.2, DH(B3)=-174.6, DH(Ag2L)=-108, DH(Ag2L2)=-223.
****
C17H26OS L (5720)
1-Phenyl-3-thiadodeca-1-one; C6H5.CO.CH2.CH2.S.C8H17

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% U K1=4.36 B2=7.43 1989MSa (96508)2844
B3=9.48
B4=10.46
0.1 M NaClO4 in acetone
****
C17H34N2O4 L CAS 142565-14-8 (6562)
4,7,13,16-Tetraoxa-1,10-diazabicyclo[8.8.5]tricosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C K1=14.51 1993DLb (96739)2845
Medium: propylene carbonate, 0.05 M Et4NClO4.

Ag+ gl R4N.X 25°C 0.05M C I K1=9.31 1992CGb (96740)2846
Medium: Et4NClO4. In MeOH: K1=11.13; in DMF K1=9.40
****
C18H12N2 L Cuproin CAS 119-91-5 (2518)
2,2'-Biquinoline; C9H6N.NH6C9

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% U K1=7.0 B2=13.8 1981TLa (96851)2847
Medium: Propylene carbonate
****
C18H12N2 L CAS 6135-89-5 (3498)
5-Phenyl-1,10-phenanthroline;

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

```
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C  50%  U        K1=4.99   B2=10.14  1972BBa (96860)2848
Medium: 50% EtOH, 0.1 M KNO3
********************************************************************************
C18H15As                L                     CAS 603-32-7  (2653)
Triphenylarsine; (C6H5)3As
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        K1=3.5    B2=8.5    1987TSa (96964)2849
                                         B3=11.2
                                         B4=13.7
Medium: EtOH, 0.01 M
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C   H    K1=1.44        1986AHa (96965)2850
Medium: Pyridine; DH(K1)=-15.6 kJ mol-1
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C   H    K1=3.56   B2=5.37   1977ABc (96966)2851
                                         K3=1.31
Medium: DMSO, 0.1 M NH4ClO4; DH(K1)=-34.5,DH(K2)=-19.4, DH(K3)=-44.5 kJ m-1
--------------------------------------------------------------------------------
Ag+        sp  alc/w  25°C  75%  U  I     K1=5.70        1966OBa (96967)2852
Medium: 75.4% MeOH. K1=5.81(55.6% MeOH)
********************************************************************************
C18H15Bi                L                     CAS 603-33-8  (5402)
Triphenylbismuthine;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C        K1=<-1         1986AHa (96977)2853
Medium: pyridine, 0.1 M Et4NClO4
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C   H    K1=0.8         1977ABc (96978)2854
Medium: DMSO, 0.1 M NH4ClO4; DH(K1)=-0.5 kJ mol-1
********************************************************************************
C18H15N                 L    Triphenylamine   CAS 603-34-9  (2902)
Triphenylamine; (C6H5)3N
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C        K1=<-1         1986AHa (96979)2855
Medium: pyridine, 0.1 M Et4NClO4
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C   H    K1=0.19        1977ABc (96980)2856
Medium: DMSO, 0.1 M NH4ClO4; DH(K1)=-1 kJ mol-1
********************************************************************************
C18H15N3O3S            HL    Tropeolin 00     CAS 554-73-4  (1091)
Orange IV; C6H5.NH.C6H4.N:N.C6H4.HSO3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

```
------------------------------------------------------------------------------
Ag+        gl  mixed  20°C  75%  C        K1=1.78   B2=2.28   1987KMa (97018)2857
                                         K3=4.69
Medium: 75% v/v acetone/H2O
******************************************************************************
C18H15N6O8AsS         H3L    Sulfarsazen      CAS 5941-02-6  (4140)
4-(4'-Sulfophenylazo)anilinoazo-4-nitrobenzene-2-arsonic acid;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        sp  oth/un   ?     ?  U    M                 1969SFa (97087)2858
                                         K(2Ag(phen)2+L)=18.0
                                         K(2Ag(phen)2+HL)=11.9
                                         K(2Ag(bpy)2+HL)=11.0
******************************************************************************
C18H15O3PS             HL                     CAS 16704-71-5  (3365)
3-Diphenylphosphino-benzene sulfonic acid;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 0.10M U        K1=8.15   B2=14.10  1958ACb (97103)2859
                                         K3=5.40
******************************************************************************
C18H15O3PS             HL                     CAS 54262-24-7  (327)
4-(Diphenylphosphino)benzenesulfonic acid; (C6H5)2P.C6H4.SO3H
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        cal NaClO4 25°C 0.10M U   H    K1=8.15   B2=14.10  1976HMa (97112)2860
                                         B3=19.50
                                         B4=23.3
DH(K1)=-71 kJ mol-1, DS=-84 J K-1 mol-1; DH(B2)=-131.6, DS=-168;
DH(B3)=-195, DS=-282; DH(B4)=-225
******************************************************************************
C18H15O9AsS3           H3L                    CAS 103953-83-9  (326)
Tris-(3-sulfophenyl)arsine; (HO3S.C6H4)3As
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        cal NaClO4 25°C 0.50M U   H    K1=4.96   B2=6.7    1976HMa (97116)2861
Calorimetry: DH(K1)=-31 kJ mol-1, DS=-10 J K-1 mol-1, DH(B2)=-48, DS=-34
------------------------------------------------------------------------------
Ag+        ISE NaClO4 25°C 0.20M U        K1=5.36        1958ACb (97117)2862
******************************************************************************
C18H15P                 L                     CAS 603-35-0  (621)
Triphenylphosphine; (C6H5)3P
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C   H    K1=9.95   B2=17.17  1993DDa (97122)2863
```

B3=21.41
Medium: propylenecarbonate, 0.1 M Et4NClO4. By calorimetry, DH(K1)=-70.5 kJ mol-1, DS=-46; DH(B2)=-122.3, DS=-82; DH(B3)=-167, DS=-150.

Ag+ ISE alc/w 25°C 100% U K1=6.2 B2=12.6 1987TSa (97123)2864
B3=16.8
B4=20.1
Medium: EtOH

Ag+ ISE non-aq 25°C 100% C H K1=4.31 B2=6.45 1986AHa (97124)2865
K3=1.14
Medium: Pyridine; DH(K1)=-34.4, DH(K2)=-22.0, DH(K3)=-16.1 kJ mol-1

Ag+ ISE non-aq 25°C 100% U I K1=3.9 B2=10.01 1985TSb (97125)2866
B3=13.79
B4=17.13
In CH3CN; data for EtOH solution are also given

Ag+ ISE non-aq 25°C 100% C H K1=6.58 B2=10.73 1977ABc (97126)2867
K3=2.44
Medium: DMSO, 0.1 M NH4ClO4; DH(K1)=-51.8,DH(K2)=-38.1, DH(K3)=-36.3 kJ m-1
****
C18H15Sb L CAS 603-36-1 (2654)
Triphenylantimony; (C6H5)3Sb

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% U K1=2.7 B2=6.8 1987TSa (97153)2868
B3=10.0
B4=12.0

Ag+ ISE non-aq 25°C 100% C H K1=1.09 1986AHa (97154)2869
Medium: Pyridine; DH(K1)=-11.6 kJ mol-1

Ag+ ISE non-aq 25°C 100% C H K1=3.16 B2=4.61 1977ABc (97155)2870
K3=1.45
Medium: DMSO, 0.1 M NH4ClO4; DH(K1)=-32.1,DH(K2)=-8.6, DH(K3)=-57.1 kJ mol-1
****
C18H18N2O2S2 L CAS 729600-12-8 (9257)
2,3,5,6,8,9-Hexahydrobenzo[g][1,4,7,10]dioxadithiacyclododecino[2,3-b]quinoxaline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ nmr non-aq 25°C 60% C K1=3.20 2004HHa (97228)2871
Method: 1H nmr. Medium: 60% CD2Cl2/CD3CN.
****
C18H18N4 L CAS 16858-01-8 (1528)
Tris(2-pyridylmethyl)amine; (C5H4NCH2)3N

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

---
Ag+ gl KNO3 20°C 0.10M C H K1=7.92 1977AHc (97249)2872
K(AgL(OH)+H) > 11
DH1=-68.6 kJ mol-1, DS1=-82.8
****
C18H19N5OS L (6139)
5,7-Dimethyl-4a,7a-diphenyloctahydroimidazo(4,5-e)triaza-6-one-3-thione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE mixed 25°C 82% U K1=9.45 B2=12.19 1979TBd (97318)2873
Medium: 82% v/v DMFA/H2O; 0.2 M KNO3
****
C18H25N3O7S2 L CAS 211120-80-8 (8706)
24-Hydroxy-22-nitro-9,12-dioxa-6,15-dithia-3,18-diazabicyclotetracosa-1(24),20,22-t
riene-4,17-di;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ cal alc/w 25°C 70% C H K1=5.91 1998HBc (97646)2874
Medium: 70% MeOH/H2O. DH(K1)=-57.6 kJ mol-1, DS(K1)=-80.2 J K-1 mol-1.
****
C18H27N2O3F L CAS 173417-90-8 (6571)
23-Fluoro-4,7,20-trioxa-1,10-diazatricyclo[8.7.5.1,12,16]tricosa-12,14,16(23)triene
;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C H K1=6.39 1999BHa (97744)2875
Medium: MeOH, 0.05 M Et4NClO4. By calorimetry DH(K1)=-38.5 kJ mol-1.
Method: Ag/Ag+ electrode.
****
C18H27N5O6 L CAS 211120-75-1 (8705)
21-Hydroxy-6,12-dimethyl-19-nitro-9-oxa-3,6,12,15-tetraazabicycloheneicosa-1,17,19-
triene-4,14-;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ cal alc/w 25°C 70% C H K1=3.49 1998HBc (97767)2876
Medium: 70% MeOH/H2O. DH(K1)=-34.5 kJ mol-1, DS(K1)=-49.0 J K-1 mol-1.
****
C18H28N2O3 L CAS 154148-31-9 (6510)
4,7,20-Trioxa-1,10-diazatricyclo[8.7.5.1,12,16]tricosa-12,14,16(23)-triene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C H K1=5.82 1999BHa (97769)2877
Medium: MeOH, 0.05 M Et4NClO4. By calorimetry DH(K1)=-37.7 kJ mol-1.
Method: Ag/Ag+ electrode.
****

C18H30 L CAS 841-07-6 (3497)
1,3,5-Tri-t-butylbenzene; C6H3(C(CH3)3)3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C 0.50M U T H K1=-0.49 1956OAa (97897)2878
K1=-0.19(1.6 C). DH(K1)=-13.8 kJ mol-1, DS=-56 J K-1 mol-1
****
C18H30 L CAS 604-88-6 (3496)
Hexaethylbenzene; C6(CH2.CH3)6

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C 0.50M U K1=0.44 1956OAa (97898)2879
****
C18H30N4O12 H6L TTHA CAS 869-52-3 (694)
Triethylenetetraaminehexaethanoic acid;((HOOC.CH2)2N.CH2.CH2.N(CH2.COOH).CH2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE KNO3 ? 0.10M U K1=8.7 1972RHb (97985)2880
B(AgHL)=17.6
B(AgH2L)=23.8
B(Ag2L)=14.0
B(Ag2HL)=20.5
B(Ag2H2L)=25.6, B(Ag3L)=17.0

Ag+ ISE KNO3 25°C 0.10M U K1=8.67 1968WRa (97986)2881
K(AgL+H)=9.11
B(Ag2L)=5.22
****
C18H30S2 L CAS 160581-15-7 (5416)
1,3-Bis[(pentylthio)methyl]benzene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis KNO3 22°C 0.5M U 1998FRa (98117)2882
B(Ag(NO3)L)(org)=1.77
B(Ag(NO3)L2)(org)=3.90
B(Ag3(NO3)3L3)(aq)=12.17
Organic medium: chloroform. B(Ag(NO3)L)(org): Ag(aq)+NO3(aq)+L(org)=
Ag(NO3)L(org). B(Ag3(NO3)3L3)(aq):Ag(aq)+NO3(aq)+L(org)=Ag3(NO3)3L3(aq).
****
C18H31NS4 L (7477)
9-Phenyl-3,6,12,15-tetrathia-9-azaheptadecane:

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C K1=6.47 B2= 7.97 1999ISa (98118)2883
K(AgL+Ag)=2.2

Medium: acetonitrile, 0.1 M Me4NClO4
****
C18H32N2O8 L CAS 24951-52-8 (2560)
Cryptand-2,2,2-dilactam

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	R4N.X	25°C	0.05M	U	H	K1=5.17		2002BSd	(98131)2884

Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-38.2 kJ mol-1, DS(K1)=-29 J K-1 mol-1.
****
C18H32N4O4 L CAS 62987-13-7 (8666)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7,16-dipropanenitrile;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	ISE	R4N.X	25°C	0.05M	C	H	K1=7.87		2002BSb	(98135)2885

Medium: 0.05 M Et4NClO4. DH(K1)=-62.5 kJ mol-1, DS(K1)=-59.7 J K-1 mol-1.
****
C18H33P L CAS 2622-14-2 (169)
Tri-(cyclohexyl)phosphine; (C6H11)3P

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	U	H	K1=7.19	B2=11.10	1987HPb	(98306)2886

In pyridine; medium: 0.1 M Et4NClO4
****
C18H36N2O4S2 L CAS 28843-77-8 (8380)
4,7,13,16-Tetraoxa-21,24-dithia-1,10-diazabicyclo[8,8,8]hexacosane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	C	I	K1=13.4		1994BCe	(98400)2887

Method: Ag/Ag+ electrode. Medium: 100% MeOH, 0.05 M Et4NClO4. Data for acetone (K1=15.2), CH3CN (10.4), DMF(11.7), DMSO (8.6), CH3NO2 (16.7)

Ag+	cal	non-aq	25°C	100%	C	I			1994BFb	(98401)2888

Medium: 100% MeOH. DH(K1)=-93.2 kJ mol-1, DS(K1)=-16.7 J K-1 mol-1.
Data for several media: DMF, DH(K1)=-77.8, DS(K1)=-11.0; PC (-112, -35).
****
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
Ag+	ISE	R4N.X	25°C	0.05M	U	H	K1=16.65		2002BSd	(98451)2889

Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-102.6 kJ mol-1, DS(K1)=-27 J K-1 mol-1.

Ag+	EMF	non-aq	30°C	100%	C		K1=11.57		1999KBa	(98452)2890

Method: Ag/Ag+ electrode. Medium: MeOH.

Ag+ ISE non-aq 25°C 100% C H K1=10.00 1999WBa (98453)2891
Medium: N,N-dimethylformamide. Method: Ag+ ISE.
By calorimetry: DH(K1)=-68.1 kJ mol-1.

Ag+ EMF non-aq 25°C 100% C K1=7.15 1995CDb (98454)2892
Medium: DMSO, 0.1 M Et4NClO4.

Ag+ EMF non-aq 25°C 100% C I K1=9.01 1995DGa (98455)2893
Medium: acetonitrile, 0.05 M Et4NClO4. Method: Ag/Ag+ electrode.
In benzonitrile, K1=10.00.

Ag+ EMF non-aq 25°C 100% C I K1=13.4 1994BCe (98456)2894
Method: Ag/Ag+ electrode. Medium: 100% acetone, 0.05 M Et4NClO4.
In 100% nitromethane, 0.05 M Et4NClO4, K1=15.4.

Ag+ cal non-aq 25°C 100% C I 1994BFb (98457)2895
Medium: 100% DMF. DH(K1)=-56.4 kJ mol-1, DS(K1)=0.7 J K-1 mol-1.
Data for several media: acetone, DH(K1)=-82.2, DS=-5.7; PC (-104, -11.1).

Ag+ EMF oth/un 25°C 0.05M M K1=12.23 1992BUb (98458)2896

Ag+ ISE non-aq 25°C 100% U K1=8.88 1992CSc (98459)2897
Ag/Ag+ electrode. Medium: MeCN, 0.05 M Bu4NClO4

Ag+ ISE non-aq 25°C 100% U H K1=8.9 1990MGa (98460)2898
In acetonitrile, 0.1 M Et4ClO4. DH=-50 kJ mol-1.

Ag+ ISE non-aq 25°C 100% C I K1=8.88 1989LEb (98461)2899
In acetonitrile + 0.1 M Et4NClO4. Also DMSO (7.34), DMA (8.37), DMF (9.92), acetone (13.64), sulpholane (14.61) and propylene carbonate (16.27)

Ag+ ISE non-aq 25°C 100% U H K1=8.94 1986BUb (98462)2900
In CH3CN. DH=-53.3 kJ mol-1

Ag+ ISE alc/w 25°C 100% U H K1=12.22 1985BUb (98463)2901
Medium: MeOH, 0.05M Et4NClO4. DH=-68.3 kJ mol-1

Ag+ cal non-aq 25°C 100% U H 1985DGa (98464)2902
Medium: propylene carbonate. DH1 = -96.9 kJ mol-1

Ag+ cal non-aq 25°C 100% U H 1985DGa (98465)2903
Medium: acetonitrile. DH1 = -53.5 kJ mol-1

Ag+ ISE non-aq 25°C 100% M K1=17.71 1985DGb (98466)2904
Medium: nitromethane

Ag+ cal non-aq 25°C 100% U H 1984DGa (98467)2905
Medium: N,N-dimethylformamide. DH1=-65.6 kJ mol-1; DS1=-27.6 J K-1 mol-1.

```
--------------------------------------------------------------------------------
Ag+        cal non-aq 25°C 100%  U   H                   1984DGa (98468)2906
Medium: DMSO. DH1=-51.4 kJ mol-1; DS1=-34.3 J K-1 mol-1
--------------------------------------------------------------------------------
Ag+        gl  non-aq 25°C 100%  U  I     K1=8.99        1982CGb (98469)2907
Medium: MeCN, 0.1 M Et4NClO4. K1=8.15 (mol.fraction 0.50); K1=8.30 (mf 0.70)
K1=8.55 (mf 0.05); 8.21 (mf 0.10); 8.03 (mf 0.3)
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U  I     K1=8.99        1981CRa (98470)2908
Medium: MeCN. In DMSO: K1=7.30; in EtOH: 11.51; in PC: 16.33; in DMF: 10.07;
in N-methylpropanoamide: 9.17
--------------------------------------------------------------------------------
Ag+        ix  non-aq 25°C 100%  U        K1=7.15        1981SAa (98471)2909
Medium: DMSO, 0.1 M R4NX. In propylene carbonate: K1=16.33
--------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U        K1=16.3        1980CRa (98472)2910
Medium: Propylene carbonate
--------------------------------------------------------------------------------
Ag+        gl  alc/w  25°C 100%  C        K1=12.00       1980SAa (98473)2911
                                          B(Ag2L)=15.25
Medium: MeOH, 0.05 M Et4NClO4
--------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C  I     K1=12.3        1979BLb (98474)2912
Method: Ag electode. Medium: MeOH, 0.05 M Me4NClO4.
Also K1=9.6 (H2O), 7.2 (DMSO), 8.7 (CH3CN), 9.5 (tetramethylurea).
--------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        K1=12.2        1978CSb (98475)2913
Medium: MeOH
--------------------------------------------------------------------------------
Ag+        gl  R4N.X  25°C 0.10M C        K1=9.85        1977ASc (98476)2914
--------------------------------------------------------------------------------
Ag+        gl  R4N.X  25°C 0.10M C   H    K1=9.6         1975ANa (98477)2915
Medium: Me4NNO3. DH(K1)=-53.5 kJ mol-1, DS=-5
--------------------------------------------------------------------------------
Ag+        gl  R4N.X  25°C 0.05M C        K1=9.6         1975LSc (98478)2916
********************************************************************************
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
--------------------------------------------------------------------------------
Ag+        cal alc/w  25°C 100%  U   H    K1=>5          1990KMb (98778)2917
Medium: MeOH.  DH=-82.5 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
--------------------------------------------------------------------------------
Ag+        gl  NaClO4 25°C 0.50M U        K1=7.25        1981KMb (98830)2918
```

****
C19H14O7S H4L Pyrocatechol Vi CAS 369596-29-2 (709)
Pyrocatechol Violet,
3-[3,4-Dihydroxyphenyl-3-hydroxy-4-oxo-2,5-cyclohexadien-1-ylidenemethyl-b.;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 25°C 0.10M U 1997USa (99099)2919
K(Ag+H2L)=7.23
K(Ag+HL)=11.51
****
C19H17PS L (6778)
Diphenylphosphino(phenylthio)methane; (C6H5)2P.CH2.SC6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C H K1=10.05 B2=16.48 1995BTa (99201)2920
B3=20.65
Medium: propylene carbonate. DH(K1)=-73.2 kJ mol-1, DS(K1)=-53 J K-1 mol-1;
DH(B2)=-114.3, DS(B2)=-68; DH(B3)=-157, DS(B3)=-131.

Ag+ ISE non-aq 25°C 100% C H K1=6.25 B2=10.21 1990BZa (99202)2921
B3=12.78
Medium: DMSO; DH(K1)=-47.4, DH(B2)=-82.3, DH(B3)=-110.9 kJ mol-1;
DS(K1)=-39, DS(B2)=-80, DS(B3)=-127 J K-1 mol-1
****
C19H18NP L (7481)
1-(Diphenylphosphino)-2-(2-pyridyl)ethane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C H K1=13.10 B2=20.91 1999DDb (99203)2922
B3=24.08
B(Ag2L)=15.57
B(Ag2L2)=30.18
Medium: propylenecarbonate, 0.1 M NEt4ClO4. By calorimetry: DH(K1)=-91 kJ
mol-1, DH(B2)=-142, DH(B3)=-174, DH(Ag2L)=-107, DH(Ag2L2)=-214.
****
C19H20N2S3 L CAS 239107-98-3 (3779)
7-[4'-(Benzothiazol-2"yl)phenyl]-1,4-dithia-7-azacyclononane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ nmr diox/w 25°C 52% C K1=5.05 1999ISb (99306)2923
Medium: 52% v/v 1,4-dioxane-water. Method: 1H nmr.
****
C19H24N2O2 L (1564)
1,5-Diaza-7,8:13,14-dibenzo-9,12-dioxacyclopentadecan-7,13-diene;

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

```
------------------------------------------------------------------------------
Ag+        EMF mixed  25°C  90%  C        K1=4.22        2003ISa (99359)2924
Medium: 90% v/v DMSO/H2O. Method: Ag electrode.
------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  C T H    K1=5.60        2000MTc (99360)2925
Medium: acetonitrile. Data for 20-35 C. DH(K1)=-3.45 kJ mol-1, DS(K1)=
41.5 J K-1 mol-1.
******************************************************************************
C19H27N3O7S2            L                      CAS 211120-71-7  (8704)
24-Methoxy-22-nitro-9,12-dioxa-6,15-dithia-3,18-diazabicyclotetracosa-1,20,22-trien
e-4,17-dione;
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        cal alc/w  25°C  70%  C   H    K1=5.66        1998HBc (99399)2926
Medium: 70% MeOH/H2O. DH(K1)=-61.5 kJ mol-1, DS(K1)=-98.0 J K-1 mol-1.
******************************************************************************
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
------------------------------------------------------------------------------
Ag+        ISE R4N.X  25°C 0.10M U        K1=10.8        1978LMa (99484)2927
                                         K(Ag+HL)=5.6
******************************************************************************
C20H19O2P               L                      CAS 14180-51-9  (2652)
Di(4-Methoxyphenyl)phenylphosphine;  (CH3OC6H4)2P(C6H5)
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U        K1=6.5    B2=13.1   1987TSa (99886)2928
                                         B3=17.9
                                         B4=21.4
Medium: EtOH
******************************************************************************
C20H19PS                L                        (6780)
1-Thiophenyl-2-(diphenylphosphino)ethane; C6H5S.CH2.CH2.P(C6H5)2
------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C   H    K1=10.90  B2=19.48  1995BTa (99887)2929
                                         B3=22.8
                                         B(Ag2L)=13.43
Medium: propylene carbonate. DH(K1)=-78 kJ mol-1, DS=-53 J K-1 mol-1; DH(B2)
=-137, DS=-87; DH(B3)=-177, DS=-158; DH(Ag2L)=-100, DS=-78.
------------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  C   H    K1=7.00   B2=11.77  1990BZa (99888)2930
                                         B3=14.41
Medium: DMSO. DH(K1)=-53.5, DH(B2)=-96.5; DH(B3)=-133 kJ mol-1;
DS(K1)=-45, DS(B2)=-98, DS(B3)=-174 J K-1 mol-1
```

****
C20H20NP L (7479)
1-(Diphenylphosphino)-2-(dimethyamino)benzene; (C6H5)2P.C6H4.N(CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C H K1=10.90 B2=19.94 1999DDb (99889)2931
B3=22.04
Medium: propylenecarbonate, 0.1 M NEt4ClO4. By calorimetry: DH(K1)=-73 kJ mol-1, DH(B2)=-125, DH(B3)=-183.
****
C20H22O4 L CAS 82645-28-1 (8945)
o,o'-(Triethyleneglycoldiyl)-(Z)-stilbene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ con non-aq 25°C 100% C K1=4.5 B2= 8.19 2000ICa (99926)2932
Medium: nitromethane.
****
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
---
Ag+ EMF alc/w 25°C 100% C K1=4.16 2004ZTa (100061)2933
Medium: 100% methanol, 0.05 M Bu4NClO4. Method: Ag electrode.

Ag+ con mixed 25°C 90% C K1=2.02 2003ISa (100062)2934
Medium: 90% v/v DMSO/H2O. By potentiometry (Ag electrode), K1=1.98.

Ag+ con mixed 25°C 20% C K1=4.55 2003SIa (100063)2935
Medium: 20% w/w propylene carbonate/ethylene carbonate. By potentiometry (Pt/Ag electrode), K1=4.53.

Ag+ con non-aq 25°C 100% C K1=6.22 2000ICa (100064)2936
Medium: nitromethane.

Ag+ EMF non-aq 30°C 100% C K1=2.59 1999KBa (100065)2937
Method: Ag/Ag+ electrode. Medium: N-methyl-2-pyrrolidinone.

Ag+ con non-aq 25°C 100% C I K1=4.52 1993JHa (100066)2938
Medium: acetone. Data for DMF media.

Ag+ con non-aq 25°C 100% C K1=4.86 1992STa (100067)2939
Medium: propylene carbonate. By potentiometry with Ag electrode, K1=4.86.

Ag+ sol none 25°C 0.0 U I K1=1.41 1975SNa (100068)2940
****
C20H26N2O2S L (7109)
3,4:9,10-Dibenzo-1,12-diaza-5,8-dioxa-15-thiacycloheptadecan-3,9-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF alc/w 25°C 95% U K1=8.6 1995ABa (100303)2941
Medium: 95% MeOH/H2O. Also data for diaza-dioxa-thia ligands with smaller and larger ring sizes.

Ag+ gl alc/w 25°C 95% U K1=12.0 1994ABg (100304)2942
Medium: 95% v/v MeOH/H2O, 0.1 M Et4NClO4
****
C20H26N2O3 L (7551)
1,12-Diaza-3,4:9:10-dibenzo-5,8,15-trioxacycloheptadecan-3,9-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% U K1=7.1 1994ABg (100307)2943
Medium: 95% v/v MeOH/H2O, 0.1 M Et4NClO4
****
C20H26N2O3 L OdienNtnH4 CAS 85735-84-8 (5943)
1,15-Diaza-3,4:12,13-dibenzo-5,8,11-trioxacycloheptadecan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=6.7 1998DLa (100315)2944
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

Ag+ gl alc/w 25°C 95% U K1=7.1 1994ABh (100316)2945
Medium: 95% MeOH/H2O, 0.10 M NEt4ClO4. For the 4-thia analogue: K1=12.0.
****
C20H26N2S3 L (6958)
9,10:15,16-Dibenzo-1,7-diaza-4,11,14-trithiacycloheptadeca-9,15-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% U K1=12.4 1994ABh (100322)2946
Medium: 95% MeOH/H2O, 0.10 M NEt4ClO4. For the 4-oxa analogue: K1=10.3
****
C20H27N3O2 L OenNdienH4 CAS 77016-63-8 (5938)
1,12,15-Triaza-3,4:9,10-dibenzo-5,8-dioxacycloheptadecan-3,9-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=8.7 1998DLa (100365)2947
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

Ag+ gl alc/w 25°C 95% U K1=8.7 1994ABg (100366)2948
Medium: 95% v/v MeOH/H2O, 0.1 M Et4NClO4

Ag+ gl alc/w 25°C 95% U K1=8.7 1994ABh (100367)2949
Medium: 95% MeOH/H2O, 0.1 M NEt4ClO4. For the 11,14-dithia analogue: K1=8.6

****
C20H27N3O2 L CAS 168279-86-5 (7556)
1,8,15-Triaza-3,4:12,13-dibenzo-5,11-dioxacycloheptadecan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=10.6 1998DLa (100377)2950
B(AgHL)=15.4
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.
****
C20H27N3S2 L (7660)
1,12,15-Triaza-3,4:9,10-dibenzo-5,8-dithiacycloheptadecan-3,9-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% U K1=8.6 1994ABg (100381)2951
Medium: 95% v/v MeOH/H2O, 0.1 M Et4NClO4
****
C20H29N5 L (6718)
3,4:9,10-Dibenzo-1,5,8,12,15-pentaazacycloheptadeca-3,9-diene
---
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF alc/w 25°C 95% U K1=10.3 1995ABa (100406)2952
Medium: 95% MeOH. Data for the 15-thia- (10.8) and 15-oxa- (9.8) analogues
****
C20H31N2O4F L CAS 173417-87-3 (6461)
26-Fluoro-4,7,13,16-tetraoxa-1,10-diazatricyclo[8.8.7.1,20,24]hexacosa-20,22,24(26)
-triene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C H K1=10.69 1999BHa (100436)2953
Medium: MeOH, 0.05 M Et4NClO4. By calorimetry DH(K1)=-54.8 kJ mol-1.
Method: Ag/Ag+ electrode.
****
C20H32N2O4 L CAS 61696-66-0 (6497)
4,7,13,16-Tetraoxa-1,10-diazatricyclo[8.8.7.1,20,24]hexacosa-20,22,24(26)-triene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C H K1=10.39 1999BHa (100453)2954
Medium: MeOH, 0.05 M Et4NClO4. By calorimetry DH(K1)=-62.5 kJ mol-1.
Method: Ag/Ag+ electrode.
****
C20H36O6 L DiCy-18-crown-6 CAS 16069-36-6 (1653)
2,3:11,12-Dicyclohexyl-1,4,7,10,13,16-hexaoxacyclooctadecane;

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

```
Ag+        EMF alc/w  25°C 100%  C        K1=4.62        2004ZTa (100601)2955
Medium: 100% methanol, 0.05 M Bu4NClO4. Method: Ag electrode.
--------------------------------------------------------------------------------
Ag+        con mixed  25°C  90%  C        K1=2.09        2003ISa (100602)2956
Medium: 90% v/v DMSO/H2O. By potentiometry (Ag electrode), K1=1.99.
--------------------------------------------------------------------------------
Ag+        con mixed  25°C  20%  C        K1=4.93        2003SIa (100603)2957
Medium: 20% w/w propylene carbonate/ethylene carbonate. By potentiometry
(Pt/Ag electrode), K1=4.94.
--------------------------------------------------------------------------------
Ag+        con alc/w  25°C  40%  C        K1=1.86        2002ISa (100604)2958
Medium: 40% EtOH/H2O. By potentiometry, K1=1.84
--------------------------------------------------------------------------------
Ag+        con alc/w  25°C  40%  C        K1=1.89        2001ISa (100605)2959
Medium: 40% v/v EtOH/H2O. By potentiometry, K1=1.87.
--------------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  C T      K1=3.68        1998PSa (100606)2960
DH=-25.9 kJ mol-1, DS=-17 J K-1 mol-1. Method: Ag electrode.
Data for 10-55 C. Medium: EtOH.
--------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  C  I     K1=5.38        1993JHa (100607)2961
Medium: acetone. Data for DMF media.
--------------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  C        K1=5.16        1992STa (100608)2962
Medium: propylene carbonate. By potentiometry with Ag electrode, K1=5.16.
--------------------------------------------------------------------------------
Ag+        cal oth/un 25°C 0.10M U   H    K1=2.26        1976ITb (100609)2963
DH(Syn)=0.29 kJ mol-1.
--------------------------------------------------------------------------------
Ag+        ISE oth/un 25°C  dil  A        K1=1.8         1971FRa (100610)2964
Data for isomer B. For isomer A, K1=2.3
--------------------------------------------------------------------------------
Ag+        cal oth/un 25°C  0.0  U        K1=1.59        1971INa (100611)2965
Isomer B
--------------------------------------------------------------------------------
Ag+        oth oth/un   ?     ?  U        K1=1.59        1970MSa (100612)2966
********************************************************************************
C20H40N2O4              L                        (6625)
1,10-Diaza-4,7,13,16-tetraoxabicyclo[8.8.8]hexacosane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag+        gl  non-aq 25°C 100%  C  I     K1=6.23        1992LSc (100773)2967
Medium: MeCN, 0.05 M Et4NClO4. In MeOH K1=10.0; in DMF K1=7.7
********************************************************************************
C20H44N4O3              L                    CAS 120981-97-7  (8970)
4,5,11,17-Tetraethyl-1,8,14-trioxa-4,5,11,17-tetraazacyclononadecane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
```

Ag+ cal non-aq 25°C 100% C H K1=3.46 1990DJb (100915)2968
Medium: DMSO. DH(K1)=-53.9 kJ mol-1, DS(K1)=-114 J K-1 mol-1.
****
C20H44N4O4 L CAS 102202-74-4 (6041)
1,4,7,10-Tetra-(2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C I K1=8.51 1997DMd (100921)2969
Method: Ag electrode. Medium: acetonitrile, 0.05 M Et4NClO4.
Also data for PC (K1=15.3), MeOH (12.8), DMF (11.30), H2O (11.86).
****
C20H44N4O4 L (6730)
1,4,7,10-Tetra-(2-methoxyethyl)-1,4,7,10-tetrazacyclododecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl non-aq 25°C 100% U I K1=12.30 1996SDa (100934)2970
Medium: MeCN, 0.05 M Et4NClO4. In MeOH: K1=14.2, DMF: 13.73, DMSO: 11.48,
propylene carbonate: 15.3
****
C21H16 L CAS 77979-28-3 (3511)
3-Methylcholanthrene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol oth/un 25°C 0.5M U K1=0.52 1954KLa (101057)2971
****
C21H24N4 L (931)
Tris((6-methyl-2-pyridyl)methyl)-amine; (CH3.C5H3N.CH2)3N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 20°C 0.10M C K1=7.53 1977AHc (101242)2972
B(AgHL)=12.14
B(AgH2L)=14.25
B(Ag2L)=9.84
****
C21H28N2O3 L OdienNtnH4 CAS 85735-85-9 (5944)
1,15-Diaza-3,4:12,13-dibenzo-5,8,11-trioxacyclooctadecan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=6.0 1998DLa (101323)2973
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.
****
C21H29N3O2 L OenNentnH4 CAS 77016-65-0 (5941)
1,12,16-Triaza-3,4:9,10-dibenzo-5,8-dioxacyclooctadecan-3,9-diene;

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

---
Ag+ gl alc/w 25°C 95% C K1=8.8 1998DLa (101347)2974
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

Ag+ EMF alc/w 25°C 95% U K1=8.8 1995ABa (101348)2975
Medium: 95% MeOH/H2O. Also data for triaza-dioxa ligands with smaller and larger ring sizes.
****
C22H20N2O4 L CAS 207461-96-9 (8955)
(5Z)-12,13,20,21-Tetrahydrotribenzo[b,f,l][1,8,11,14,4,5]tetraoxadiazacyclohexadecine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp non-aq RT 100% C I K1=2.1 2000GDa (101693)2976
Medium: acetonitrile. In MeOH, K1=3.7.
****
C22H26O5 L CAS 160978-39-2 (8944)
o,o'-(Tetraethyleneglycoldiyl)-(Z)-stilbene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ con non-aq 25°C 100% C K1=6.04 2000ICa (101995)2977
Medium: nitromethane.
****
C22H28O7 L Dibenzo-21-Cr-7 CAS 14098-41-0 (2876)
2,3:11,12-Dibenzo-1,4,7,10,13,16,19-heptaoxacycloheneicosane-2,11-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ con non-aq 25°C 100% C I K1=3.15 1993JHa (102035)2978
Medium: acetone. Data for DMF media.

Ag+ cal non-aq 25°C 100% C H K1=2.41 1986ICa (102036)2979
Medium: MeOH. DH(K1)=-7.61 kJ mol-1, DS(K1)=20.6 J K-1 mol-1.
****
C22H30N2O3 L CAS 257890-46-3 (8930)
7,13-Diphenyl-1,4,10-trioxa-7,13-diazacyclopentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE R4N.X 25°C 0.05M U H K1=12.91 2002BSd (102101)2980
Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-83.1 kJ mol-1, DS(K1)=-32.6 J K-1 mol-1.
****
C22H30N2O4 L CAS 173547-24-5 (7560)
1,15-Diaza-3,4:12,13-dibenzo-5,8,11,18-tetraoxacycloeicosan-3,12-diene;

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

Ag+ gl alc/w 25°C 95% C K1=6.2 1998DLa (102106)2981
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.
****
C22H31N3O3 L CAS 12859-24-4 (7557)
1,15,18-Triaza-3,4:12,13-dibenzo-5,8,11-trioxacycloeicosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=8.1 1998DLa (102173)2982
B(AgHL)=14.9
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.
****
C22H34N6 [22]-Py2N4 (5952)
Di-(2,6-pyridyl)-1,4,9,12,15,20-hexaazacyclodocosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaClO4 25°C 0.01M U K1=6.28 1985NSc (102231)2983
B(Ag2L)=10.88
****
C22H36N2O6 L Bz-Cryptand 222 CAS 31250-18-7 (2269)
5,6-Benzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicylo[8:8:8]hexacosa-5-ene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C K1=8.59 1999THa (102261)2984
Medium: acetonitrile. Method: Ag/Ag+ electrode.

Ag+ ISE NaClO4 25°C 0.10M U K1=9.28 1984CTc (102262)2985
****
C22H40O7 L (6596)
2,3,11,12,-Dicyclohexano-1,4,7,10,13,16,19-heptaoxacycloheneicosane;
dicyclohexyl-21-crown-7;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol non-aq 25°C 100% C K1=3.87 1999KCa (102375)2986
Medium: methanol.

Ag+ sol non-aq 25°C 100% C K1=7.03 1999KCa (102376)2987
Medium: propylene carbonate.
****
C22H48N6O2 L CAS 39678-22-3 (1542)
4,7,13,16-Tetramethyl-1,4,7,10,13,16-hexaaza-21,24-dioxabicyclohexacosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE R4N.X 25°C 0.10M U K1=13.0 1978LMa (102480)2988
K(Ag+HL)=9.7
****

C23H23NO5 L CAS 218619-58-0 (7808)
Dibenzo-pyridino-18-crown-6;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF alc/w 25°C 100% C K1=5.64 2004ZTa (102649)2989
Medium: 100% methanol, 0.05 M Bu4NClO4. Method: Ag electrode.

Ag+ EMF alc/w 25°C 100% C T H K1=5.45 2001SZb (102650)2990
Medium: methanol, 0.5 M Bu4NClO4. Method: Ag electrode.
Data for 5-35 C. DH(K1)=-28.7 kJ mol-1, DS(K1)=11 J K-1 mol-1.
****
C23H32N2O5 L (7368)
9-(2'-Hydroxy-5'-methylbenzyl)-3,6,12,15-Tetraoxa-9,21-diazabicyclo[15.3.1]heneicos
atriene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ cal alc/w 25°C 100% U H K1=>9 1997ZBa (102780)2991
Medium: MeOH. Data also for several similar 5'-substituted ligands
****
C23H32N2O5 L (7369)
9-(2'-Pyridylmethyl)-3,6,12,15-tetraoxa-19-methyl-21-hydroxy-9-azabicyclo[15.3.1]he
neicosatriene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ cal alc/w 25°C 100% U H K1=6.33 1997ZBa (102784)2992
Medium: MeOH
****
C23H33N3O3 L CAS 173547-19-8 (7558)
1,15,19-Triaza-3,4:12,13-dibenzo-5,8,11-trioxacycloheneicosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=8.0 1998DLa (102812)2993
B(AgHL)=14.8
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.
****
C24H16N2 L Bathophenan CAS 1662-01-7 (2749)
4,7-Diphenyl-1,10-phenanthroline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 50% C I K1=5.13 B2=10.02 1974BOa (102856)2994
In 50% acetone/H2O: K1=5.20, B2=10.33
****
C24H20B- HL CAS 4358-26-3 (2489)
Tetraphenylborate;

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE alc/w  25°C 100%  U  I                     1972KCa (102879)2995
Medium: MeOH. Kso=-14.4. In H2O: Kso=-17.2
-------------------------------------------------------------------------
Ag+        con non-aq  rt  100%  U                       1970DMa (102880)2996
Medium: DMSO, 0.1 M Et4NClO4
-------------------------------------------------------------------------
Ag+        ISE non-aq 22°C 100%  U                       1969CLa (102881)2997
Medium: propene carbonate. Kso=-12.5
-------------------------------------------------------------------------
Ag+        ISE non-aq 20°C 100%  U                       1968BBb (102882)2998
Medium: MeNO2. Kso=-13.5
*************************************************************************
C24H32O8               L    DiBz-24-Crown-8  CAS 14174-09-5  (580)
2,3:14,15-Dibenzo-1,4,7,10,13,16,19,22-octaoxacyclotetracosa-2,14-diene;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        con mixed  25°C  90%  C        K1=1.75        2003ISa (103098)2999
Medium: 90% v/v DMSO/H2O. By potentiometry (Ag electrode), K1=1.75.
-------------------------------------------------------------------------
Ag+        con mixed  25°C  20%  C        K1=5.02        2003SIa (103099)3000
Medium: 20% w/w propylene carbonate/ethylene carbonate. By potentiometry
(Pt/Ag electrode), K1=5.01.
-------------------------------------------------------------------------
Ag+        con non-aq 25°C 100%  C  I     K1=4.20        1993JHa (103100)3001
Medium: acetone. Data for DMF media.
*************************************************************************
C24H34N2O4             L                     CAS 91540-11-3  (8933)
7,16-Diphenyl-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE R4N.X  25°C 0.05M U   H    K1=13.95       2002BSd (103207)3002
Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M
Et4NClO4. By calorimetry: DH(K1)=-99.6 kJ mol-1, DS(K1)=-68.1 J K-1 mol-1.
*************************************************************************
C24H35N3O3             L                     CAS 173547-21-2  (7559)
1,15,19-Triaza-3,4:12,13-dibenzo-5,8,11-trioxacyclodocosan-3,12-diene;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  95%  C        K1=8.0         1998DLa (103250)3003
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.
*************************************************************************
C24H36N4S2                                   CAS 638211-87-7  (9252)
Eicosahydro-7,10:19,22-diepithiodibenzo[1,4,11,14]tetraazacycloeicosine;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

Ag+ gl KCl 25°C 0.10M C K1=23.57 2003GMb (103276)3004
****
C24H42S2 L CAS 160581-16-8 (5456)
1,3-Bis-[(octylthio)methyl]benzene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis KNO3 22°C 0.5M U 1998FRa (103402)3005
B(Ag(NO3)L)(org)=2.54
B(Ag(NO3)L2)(org)=4.69
B(Ag3(NO3)3L3)(aq)=15.01
Organic medium: chloroform. B(Ag(NO3)L)(org): Ag(aq)+NO3(aq)+L(org)=
Ag(NO3)L(org). B(Ag3(NO3)3L3)(aq):Ag(aq)+NO3(aq)+L(org)=Ag3(NO3)3L3(aq).
****
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
---
Ag+ con mixed 25°C 90% C K1=1.80 2003ISa (103419)3006
Medium: 90% v/v DMSO/H2O. By potentiometry (Ag electrode), K1=1.78.

Ag+ con mixed 25°C 20% C K1=4.49 2003SIa (103420)3007
Medium: 20% w/w propylene carbonate/ethylene carbonate. By potentiometry
(Pt/Ag electrode), K1=4.48.

Ag+ sol non-aq 25°C 100% C K1=7.48 1999KCa (103421)3008
Medium: propylene carbonate

Ag+ sol non-aq 25°C 100% C K1=4.40 1999KCa (103422)3009
Medium: methanol.
****
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
---
Ag+ gl NaNO3 25°C 0.10M C K1=5.20 1991DCa (103450)3010
****
C24H48N4O2S4 L CAS 65424-03-5 (5951)
1,7,13,19-Tetraaza-4,16-dioxa-10,22,27,32-tetrathiatricyclo[17.5.5.5]tetracontane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl NaClO4 25°C 0.01M U K1=13.12 1985SLa (103471)3011
B(Ag2L)=23.02
****
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
---
Ag+ gl R4N.X 25°C 0.10M U 1985NSb (103476)3012
B(AgHL)=16.29
B(Ag2L)=13.54
****
C24H48N7O5P3 L CAS 254441-66-2 (7955)
2,5,8,11,14-Pentaoxa-16,18,19-triaza-1,15,17-triphosphabicyclo[13.3.1]nonadeca-1,15
,17-triene,17,

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF R4N.X RT 0.10M M K1=3.26 B2= 5.56 2001BSb (103511)3013
Method: Ag/Ag+ electrode. Medium: 0.10 M Et4NNO3.
****
C25H22P2 L CAS 2071-20-7 (2294)
Methylenebis(diphenylphosphine); (C6H5)2P.CH2.P(C6H5)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% C H 1993DDa (103644)3014
B(Ag2L)=16.68
B(Ag2L2)=29.50
B(Ag2L3)=35.01
Medium: propylenecarbonate, 0.1 M Et4NClO4. By calorimetry, DH(Ag2L)=-139
kJ mol-1, DS=-147; DH(Ag2L2)=-249, DS=-270; DH(Ag2L3)=-310, DS=-370.

Ag+ ISE non-aq 25°C 100% U H 1990DDa (103645)3015
B(Ag2L)=12.46
B(Ag2L2)=22.75
B(Ag2L3)=25.57
Medium: DMSO, 0.1 M Et4NClO4. DH(Ag2L))=-107, DH(Ag2L2)=-188, DH(Ag2L3)=
-261 kJ mol-1. DS(Ag2L)=-120, DS(Ag2L2)=-195, DS(Ag2L3)=-386 J K-1 mol-1
****
C25H28N4O10 L CAS 752-13-6 (2940)
Tetraacetylriboflavine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ nmr non-aq 38°C 100% U K1=3.1 B2=4.21 1975LHa (103671)3016
In acetone. B2 measured by ESR at 38 C, K1 by spectrophotometry at 25 C
****
C25H30N4O2 L CAS 336181-87-4 (8558)
Octahydro-12H-7,11-nitrilo-6H,18H-dibenzo[b,m][1,15,5,8,11]dioxatriazacyclodocosine
;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% U K1=>13 2002FGa (103696)3017

Medium:95% MeOH/H2O, 0.10 M Et4NClO4. For the 2,16-t-butyl derivative,
K1=>13.
****
C26H24P2 L CAS 28240-60-0 (2280)
Ethylenebis(diphenylphosphine); (C6H5)2P.CH2.CH2.P(C6H5)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% C H K1=13.75 B2=21.94 1993DDa (103927)3018
B(Ag2L)=18.01
B(Ag2L2)=30.63
Medium: propylenecarbonate, 0.1 M Et4NClO4. By cal, DH(K1)=-114 kJ mol-1
DS=-121; DH(B2)=-173, DS=-160; DH(Ag2L)=-144, DS=-138; DH(Ag2L2)=-233.

Ag+ ISE non-aq 25°C 100% U H K1=7.73 B2=13.91 1990DDa (103928)3019
B(Ag2L)=11.91
B(Ag2L2)=18.28
Medium: DMSO,0.1 M Et4NClO4. DH(K1)=-87, DH(B2)=-149,DH(Ag2L)=-110,DH(Ag2L2)
=-186 kJ mol-1. DS(K1)=-144, DS(B2)=-233, DS(Ag2L)=-141, DS(Ag2L2)=-274
****
C26H28N2O5 L (2155)
1,13-Di-(8-quinolyl)-1,4,7,10,13-tetraoxatridecane; C9H6N.O.(CH2.CH2.O)4.C9H6N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% U H K1=7.02 1985BUb (103976)3020
Medium: MeOH, 0.05M Et4NClO4. DH=-37.8 kJ mol-1
****
C26H28N6 L CAS 16858-02-9 (933)
N,N,N',N'-Tetrakis-(2-pyridylmethyl)-diaminoethane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl KNO3 20°C 0.10M C H K1=11.29 1977AHc (103993)3021
B(Ag2L)=17.40
B(AgHL)=15.45
Calorimetry: DH1=-77.1 kJ mol-1, DS1=-46.4
****
C26H30N2O2 L CAS 268727-12-4 (8553)
6,7,8,9,10,11,17,18-Octahydro-6-(phenylmethyl)-5H-dibenzo[e,n][1,4,8,12]dioxadiazac
yclopentadecin

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=4.4 2002KAb (104028)3022
Medium: 95% MeHO/H2O, 0.10 M Et4NClO4.
****
C26H34N2O6 L CAS 81897-78-1 (8932)
7,16-Dibenzoyl-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;

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

---

Ag+ ISE R4N.X 25°C 0.05M U H K1=2.57 2002BSd (104069)3023
Method: Ag+ ion selective electrode. Medium: propylene carbonate, 0.05 M Et4NClO4. By calorimetry: DH(K1)=-13.0 kJ mol-1, DS(K1)=5.4 J K-1 mol-1.

****

C26H36N2O4F2 L CAS 205439-52-7 (8667)
7,16-Bis[(2-fluorophenyl)methyl]-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;

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

---

Ag+ ISE R4N.X 25°C 0.05M C H K1=8.85 2002BSb (104118)3024
Medium: 0.05 M Et4NClO4. DH(K1)=-62.9 kJ mol-1, DS(K1)=-41.6 J K-1 mol-1. Also data for 4-fluoro, 2-bromo and 4-bromo derivatives.

****

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

---

Ag+ cal non-aq 25°C 100% U IH 1988DSa (104120)3025
Medium: MeCN. DH(K1)=-52.7 kJ mol-1. Also data in propylene carbonate, dimethylformamide and dimethylsulphoxide

---

Ag+ ISE non-aq 25°C 100% U M K1=9.20 1987DSa (104121)3026
Medium: N,N-dimethylformamide

Ag+ ISE alc/w 25°C 100% C I K1=11.78 1985CKa (104122)3027
Medium: MeOH. In acetonitrile K1=8.31; in propylenecarbonate K1=15.88; in DMF K1=9.67; in DMSO K1=6.77.

****

C26H36O9 L DiBz-27-crown-9 CAS 61260-08-0 (1775)
Dibenzo-27-crown-9.
2,3:17,18-Dibenzo-1,4,7,10,13,16,19,22,25-nonaoxacycloseptacosa-2,15-diene;

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

---

Ag+ cal non-aq 25°C 100% C H K1=2.47 1986ICa (104166)3028
Medium: MeOH. DH(K1)=-14.0 kJ mol-1, DS(K1)=0.3 J K-1 mol-1.

****

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

---

Ag+ EMF mixed 25°C 90% C K1=4.45 2003ISa (104179)3029
Medium: 90% v/v DMSO/H2O. Method: Ag electrode.

Ag+ con non-aq 25°C 100% C T H K1=6.38 2000MTc (104180)3030

Medium: acetonitrile. Data for 20-35 C. DH(K1)=-100.0 kJ mol-1, DS(K1)=
214.1 J K-1 mol-1.

Ag+ ix none 25°C 0.0 U K1=7.8 1988IBa (104181)3031
Ligand covalently attached to silica gel
****
C26H38N4O6Cl2 H2L CAS 227796-03-4 (8914)
7,16-Bis(3-amino-5-chloro-2-hydroxybenzyl)-1,4,10,13-tetraoxa-7,16-diazacyclooctade
cane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ cal alc/w 25°C 100% C H 1999SBf (104197)3032
K(Ag+H2L)=>5.5
Medium: MeOH. DH(K)=-47.9 kJ mol-1, DS(K)=>-55.4 J K-1 mol-1.
****
C27H26P2 L CAS 6372-42-4 (2295)
Propane-1,3-diylbis(diphenylphosphine); (C6H5)2P.CH2.CH2.CH2.P(C6H5)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% C H K1=14.1 B2=21.83 1993DDa (104410)3033
B(Ag2L)=18.15
B(Ag2L2)=32.63
Medium: propylenecarbonate, 0.1 M Et4NClO4. By cal, DH(K1)=-120 kJ mol-1
DS=-134; DH(B2)=-198, DS=-246; DH(Ag2L)=-147, DS=-146; DH(Ag2L2)=-253.

Ag+ ISE non-aq 25°C 100% U H K1=8.65 B2=14.39 1990DDa (104411)3034
B(Ag2L)=12.37
B(Ag2L2)=20.13
Medium: DMSO,0.1 M Et4NClO4. DH(K1)=-95, DH(B2)=-162,DH(Ag2L)=-115,DH(Ag2L2)
=-195 kJ mol-1. DS(K1)=-153, DS(B2)=-268, DS(Ag2L)=-149, DS(Ag2L2)=-269
****
C27H32NO5S3 CAS 197148-44-0 (7331)
7,13-Dithia-1,4,10-trioxa-2,3-benzocyclopentadeca-15-ene-3'-vinyl-3-carboxypropylbe
nzothiazolium;HL+

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp non-aq 22°C 100% C K1=4.4 1997GFa (104520)3035
Medium: MeCN. Data also for several related ligands
****
C27H33N3O2 L CAS 540522-39-2 (9154)
1,12,15-Triaza-3,4:9,10-dibenzo-5,8-dioxacycloheptadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% U K1=9.2 2004FRa (104530)3036
B(AgHL)=14.3
Medium: 95% methanol/water, 0.1 M Et4NClO4.

****
C28H36N2O7S2 HL CAS 150196-54-6 (7735)
3-(3-Sulfopropyl)-2-[4-[N-(1,4,7,10,13-pentaoxa-16-azacyclooctadeca)]]styryl-benzothiazolium;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp none 18°C 0.0 C K1=0.74 1997LHa (104779)3037
****
C28H40O10 L DiBz-30-crown10 CAS 104946-67-0 (1776)
2,3:17,18-Dibenzo-1,4,7,10,13,16,19,22,25,28-decaoxacyclotriaconta-2,17-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ con non-aq 25°C 100% C I K1=3.53 1993JHa (104863)3038
Medium: acetone. Data for DMF media.

Ag+ con non-aq 25°C 100% U I K1=5.27 1991ASb (104864)3039
Medium: 1,2-dichlorethane. In nitromethane: K1=4.79; in MeCN: K=4.22;
in acetone: K=3.88

Ag+ sp alc/w 25°C 100% U I K1=4.31 1987GKb (104865)3040
Medium: MeOH. In DMF, K1=3.42
****
C28H42N2O4 L CAS 442126-05-8 (8668)
7,16-Bis[(2-methylphenyl)methyl]-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE R4N.X 25°C 0.05M C H K1=8.51 2002BSb (104924)3041
Medium: 0.05 M Et4NClO4. DH(K1)=-62.9 kJ mol-1, DS(K1)=-41.6 J K-1 mol-1.
Also data for 4-methylphenyl derivative.
****
C28H52N6O5 HL CAS 811431-80-8 (9159)
2,6-Bis(1,4-dioxa-7,10,13-triazacyclopentadec-10-ylmethyl)-phenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% U K1=> 14 2004PFa (105003)3042
Medium: 95 % methanol/H2O, 0.1 M Et4NClO4.
****
C28H52O10 L CAS 17455-26-4 (6071)
2,3:17,18-Dicyclohexyl-1,4,7,10,13,16,19,22,25,28-decaoxacyclotriacontane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sol non-aq 25°C 100% C K1=6.00 1999KCa (105020)3043
Medium: propylene carbonate.
****
C29H37N3O4S2 L CAS 173547-29-0 (7564)

1,8,15-Triaza-3,4:12,13-dibenzo-8-tosyl-5,11-dioxa-18-thiacycloeicosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=8.3 1998DLa (105112)3044
B(AgHL)=13.7
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.
****
C29H37N3O5S L CAS 173547-28-9 (7563)
1,8,15-Triaza-3,4:12,13-dibenzo-8-tosyl-5,11,18-trioxacycloeicosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=6.6 1998DLa (105120)3045
B(AgHL)=13.4
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.
****
C29H38N4O4S L CAS 168279-83-2 (7561)
1,8,15,18-Tetraaza-3,4:12,13-dibenzo-8-tosyl-5,11-dioxacycloeicosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=8.5 1998DLa (105129)3046
B(AgHL)=15.2
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.
****
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
---
Ag+ EMF non-aq 25°C 100% U H K1=7.2 B2=13.30 1996AAb (105246)3047
Medium: MeCN
tacyclo[12.12.12.1(6,9).1(19,22).1(31,34]hentetetraconta-4,6,8.....dodecaene
****
C30H38N2O8 L CAS 137571-97-2 (6821)
Anthraquinone[2.2]cryptand;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% U K1=5.03 1992CSc (105276)3048
Ag/Ag+ electrode. Medium: MeCN, 0.05 M Bu4NClO4
****
C30H40N2O4 L Anthracene-22 (3329)
6,9,17,20-Tetraoxa-3,12-diaza[14:8](9,10)anthracenophane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp alc/w 25°C 100% U K1=9.51 1989FDa (105281)3049

Medium: MeOH, 0.1 M Bu4NClO4
****
C30H40N4O4S L CAS 173547-27-8 (7562)
1,8,15,19-Tetraaza-3,4:12,13-dibenzo-8-tosyl-5,11-dioxacycloheneicosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=8.8 1998DLa (105287)3050
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.
****
C32H34N2O2S2 L (7281)
3,4:9,10:14,15:20,21-Tetrabenzo-1,12-diaza-5,8-dioxa-16,19-dithiacyclodocosan-3,9,14,20-tetraene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=9.5 1996AKb (105621)3051
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4
****
C32H34N2O4 L (7282)
3,4:9,10:14,15:20,21-Tetrabenzo-1,12-diaza-5,8,16,19-tetraoxacyclododecan-3,9,14,20-tetraene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=8.4 1996AKb (105624)3052
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4
****
C32H34N2S4 L (7283)
3,4:9,10:14,15:20,21-Tetrabenzo-1,12-diaza-5,8,16,19-tetrathiacyclododecan-3,9,14,29-tetraene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=12.5 1996AKb (105628)3053
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4
****
C32H43N2O7S HL CAS 189057-31-6 (7756)
3-(4-Carboxybutyl)-2-[4-[N-(1,4,7,10,13-pentaoxa-16-azacyclooctadeca)]]styryl-benzothiazolium;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp none 18°C 0.0 C K1=0.80 1997LHa (105752)3054
****
C32H44N2O4 L (6164)
7,10,17,20-Tetraoxa-4,13-diaza[16:8](9,10)anthracenophane;

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

Ag+ sp alc/w 25°C 100% U K1=9.36 1989FDa (105762)3055
Medium: MeOH, 0.1 M Bu4NClO4
****
C32H48N2O3 L CAS 170801-55-5 (8952)
1,5-Bis[2,2'-azo-4,4'-(1,1,3,3-tetramethylbutyl)phenoxy]-3-oxapentane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp alc/w RT 100% C K1=2.9 2000GDa (105793)3056
Medium: MeOH.
****
C32H48N2O4 L CAS 170801-51-1 (8953)
6,7,9,10-Tetrahydro-2,14-bis(1,1,3,3-tetramthylbutyl)dibenzotrioxadiazacyclotrideci
ne 16-oxide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp alc/w RT 100% C K1=2.0 2000GDa (105797)3057
Medium: MeOH.
****
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
---
Ag+ gl alc/w 25°C 90% M K1=ca. 12 1977LSc (105846)3058
Medium: 90% (w/w) MeOH/H2O, 0.1 M Et4NBr.
****
C32H66N2O4 L 22DD Kryptofix CAS 79495-97-9 (6655)
1,10-Didecyl-1,10-diaza-4,7,13,16-tetraoxacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE alc/w 25°C 100% U H K1=10.28 1985BUb (105858)3059
Medium: MeOH, 0.05M Et4NClO4. DH=-61.1 kJ mol-1
****
C33H36N2O2 L CAS 225918-78-5 (8554)
6,7,8,9,10,11,17,18-Octahydro-6,10-bis(phenylmethyl)-5H-dibenzo[1,4,8,12]dioxadiaza
cyclopentadeci

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=4.0 2002KAb (105883)3060
Medium: 95% MeHO/H2O, 0.10 M Et4NClO4.
****
C33H38N2O6P2 H2L CAS 361523-72-0 (7842)
1,12-Diaza-3,4:9,10-dibenzo-5,8-dioxacyclopentadecan-1,2-bis(methylenephenylphosphi
nic acid);

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  95%  C        K1=6.8         2001FLa (105903)3061
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.
*************************************************************************
C33H39N11              L    Pyr-cryptand     CAS 141258-00-6  (7452)
1,4,12,15,18,26,31,39,42,43,44-Undecaazapentacyclo[13.13.13.1.1.1]tetratetetraconta
pentadecane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        EMF non-aq 25°C 100%  U   H    K1=6.0         1996AAb (105911)3062
Medium: CH3CN
.13.1(6,10).1(20,24).1(33,37)]tetratetraconta-4-6-8-10(44),11...pentadecaene
*************************************************************************
C34H33P3               L                      (6539)
Bis(2-(diphenylphosphino)ethyl)phenylphosphane; C6H5P(CH2CH2P(C6H5)2)2
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        ISE non-aq 25°C 100%  U   H    K1=11.69  B2=16.69  1990DDa (106004)3063
                                         B(Ag2L)=15.45
                                         B(Ag2L3)=32.01
Medium: DMSO,0.1M Et4NClO4. DH(K1)=-109, DH(B2)=-159,DH(Ag2L)=-135,DH(Ag2L3)
=-291 kJ mol-1. DS(K1)=-142, DS(B2)=-214, DS(Ag2L)=-157, DS(Ag2L3)=-364
*************************************************************************
C34H38N2O3             L                    CAS 268727-13-5  (8555)
Decahydro-17,20-bis(phenylmethyl)dibenzo[h,p][1,4,7,11,14]trioxadiazacycloheptadeci
ne;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        gl  alc/w  25°C  95%  C        K1=8.9         2002KAb (106022)3064
Medium: 95% MeHO/H2O, 0.10 M Et4NClO4.
*************************************************************************
C34H42N2O4             L                    CAS 205743-21-1  (8942)
N,N'-Bis(1-naphthylmethyl)-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        con alc/w  25°C 100%  M   H    K1=8.65        2000BSe (106054)3065
Medium: MeOH. By calorimety: DH(K1)=-51.3 kJ mol-1, DS(K1)=-7.4
J K-1 mol-1.
*************************************************************************
C34H54O8             H2L    Lasalocid        CAS 25999-20-6  (2335)
Lasalocid acid;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Ag+        nmr non-aq 20°C 100%  C                       1998MLa (106109)3066
```

K(Ag+HL)=2.0
Medium: CD3OD. Method: 13C nmr.
****
C35H40N2O3 L CAS 268727-14-6 (8556)
Decahydro-17,21-bis(phenylmethyl)-16H-dibenzo[h,q][1,4,7,11,15]trioxadiazacycloocta
decine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=5.1 2002KAb (106192)3067
Medium: 95% MeHO/H2O, 0.10 M Et4NClO4.
****
C36H42N8 L Xylyl-cryptand CAS 172881-87-7 (7456)
1,4,12,15,18,26,31,39-Octaazapentacyclo[13.13.13.1.1.1]tetratatetracontadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp non-aq 25°C 100% U K1=4.8 1996AAd (106313)3068
B(Ag2L)=8.77
Medium: CH3CN
****
C36H44N4O2 L CAS 446875-57-6 (8559)
3,17-Bis(1,1-dimethylethyl)-tetrahydro-dinitrilodibenzodioxadiazacyclotetracosine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% U K1=>13 2002FGa (106325)3069
Medium:95% MeOH/H2O, 0.10 M Et4NClO4.
****
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
---
Ag+ con non-aq 25°C 100% C H K1=1.95 1997PBb (106478)3070
Medium: acetonitrile. Additional method: potentiometry with ISE.
By calorimetry, DH(K1)=-14 kJ mol-1, DS(K1)=-10 J K-1 mol-1.

Ag+ ISE alc/w 25°C 90% U I K1=7.42 1988ACb (106479)3071
Medium: 90% v/v MeOH/H2O. 80% MeOH/H2O, K1=6.71, 70%, K1=6.43, 60%, K1=5.92

Ag+ ISE alc/w 25°C 100% M K1=7.86 1984CTa (106480)3072

Ag+ ISE non-aq 25°C 100% M K1=10.05 1984CTa (106481)3073
Medium: N,N-dimethylformamide. In DMSO K1=5.81

Ag+ ISE alc/w 25°C 100% U K1=8.94 1984CTb (106482)3074
Medium: EtOH

Ag+ gl non-aq 25°C 100% U I K1=5.38 1983RSb (106483)3075

Medium: DMSO. In MeOH: K1=8.1; in PC: 15.0; in DMF: 9.94; in MeCN: 8.6

Ag+ gl alc/w 25°C 100% U K1=8.2 1978HPa (106484)3076
****
C39H42N4O2 HL CAS 688348-35-8 (9160)
Octahydro-19,22-bis(phenylmethyl)-12H-7,11-nitrilo-6H,18H-dibenzo[1,15,5,8,11]dioxa
triazacyclo;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% U K1=10.2 2004PFa (106709)3077
Medium: 95 % methanol/H2O, 0.1 M Et4NClO4.
****
C40H52N4O4 L CAS 205066-94-0 (8760)
Tetraphenyl-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraethanol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% C K1=8.14 1998WLc (106820)3078
Medium: DMF, 0.05 M Et4NClO4.
Ligand is (all-R)-(all-alpha)-Tetraphenyl-
****
C41H45N3O2 L CAS 129508-47-0 (8557)
Decahydro-6,9,12-tris(phenylmethyl)-5H-dibenzo[e,p][1,4,8,11,14]dioxatriazacyclohep
tadecine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ gl alc/w 25°C 95% C K1=9.3 2002KAb (106878)3079
Medium: 95% MeHO/H2O, 0.10 M Et4NClO4.
****
C42H42P4 L (6540)
Tris(2-(diphenylphosphino)ethyl)phosphane; P(CH2CH2P(C6H5)2)3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% U H K1=13.29 B2=16.25 1990DDa (106942)3080
B(Ag2L)=17.88
Medium: DMSO,0.1M Et4NClO4. DH(K1)=-140, DH(B2)=-173, DH(Ag2L)=-166 kJ mol-1
DS(K1)=-215, DS(B2)=-268, DS(Ag2L)=-215 J K-1 mol-1
****
C42H50O7 L CAS 177723-38-5 (8793)
1,3-Diisopropoxycalix[4]arene-crown-5, 1,3-alternate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp non-aq 25°C 100% C K1=5.4 2000PBa (106947)3081
Medium: MeOH.
****
C42H68N2O4 L CAS 188593-77-3 (8954)

2,17-Didodecyl-6,7,9,10,12,13-hexahydro-dibenzo[b,f][1,8,11,14,4,5]tetraoxadiazacyc
lohexadecine

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sp	non-aq	RT	100%	C	I	K1=2.7	2000GDa (106971)	3082

Medium: acetonitrile. In MeOH, K1=3.65.

****

C44H38N8 H2L CAS 48242-70-2 (6629)
5,10,15,20-Tetrakis(1-methylpyridinium-4-yl)porphine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sp	NaNO3	25°C	0.10M	U			1984OBa (107100)	3083
							K(2Ag+H2L=Ag2L+2H)=-5.8		

****

C44H54O8 L CAS 162989-76-6 (8794)
1,3-Diisopropoxycalix[4]arene-crown-6, 1,3-alternate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	sp	non-aq	25°C	100%	C		K1=4.7	2000PBa (107168)	3084

Medium: MeOH.

****

C44H54O8 L CAS 161282-98-0 (8679)
25,27-Bis(1-proplyoxy)calix[4]arene-crown-6, 1,3-alternate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	C		K1=4.6	1995CUa (107173)	3085

Medium: methanol, 0.01 M Et4NClO4. Method: Ag electrode.

****

C44H54O8 L CAS 161282-96-8 (8678)
25,27-Bis(2-proplyoxy)calix[4]arene-crown-6, 1,3-alternate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	EMF	non-aq	25°C	100%	C	H	K1=4.52	1995CUa (107179)	3086

Medium: methanol, 0.01 M Et4NClO4. Method: Ag electrode.
By calorimetry, DH(K1)=-13.5 kJ mol-1, DS(K1)=41 J K-1 mol-1.

****

C46H48N4O2 HL CAS 688348-38-1 (9161)
Octahydro-19,22,25-tris(phenylmethyl)-12H-7,11-nitrilo-6H,18H-dibenzo[1,15,5,8,11]d
ioxatriazac;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	alc/w	25°C	95%	U		K1=> 8	2004PFa (107265)	3087

Medium: 95 % methanol/H2O, 0.1 M Et4NClO4.

****

C48H96N2O4 L CAS 72469-41-1 (5351)
N,N-Dioctadecyl-N',N'-dipropyl-3,6-dioxaoctanediamide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE oth/un 21°C 100% C K1=6.5 1999CPa (107442)3088
Medium: PVC/DOS ion selective electrode membrane (DOS: bis(2-ethylhexyl)-
sebacate). Data for structurally related ionophores.
****
C56H64O10 L CAS 405108-40-9 (8249)
1,2-Di-O-[2-(2-benzyloxyethoxy)ethyl]-3,4,5,6-tetra-O-benzyl-myo-inositol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis non-aq 25°C 100% C 2001SSb (107584)3089
K(Ag.pic+L(org)=AgL.pic)=2.54
Distribution of picrate salt into CHCl3/HL.
K: Ag.pic(aq)+L(org)=AgL.pic(org). Data for series of myo-inositol ligands
****
C60H80O12 L CAS 97600-39-0 (6158)
Tetraethyl-4-t-butylcalix[4]arenetetraethanoate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ con alc/w 25°C 100% C H K1=4.25 2002ASc (107647)3090
Medium: MeOH. DH(K1)=-35.66 kJ mol-1, DS(K1)=-37.40 J K-1 mol-1.
****
C62H84O14 L CAS 135581-11-2 (8630)
9,23-Dioxpentacyclo[23.3.1.13,7.111.15.117.21]dotriacontane, ethanoic acid
derivative;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp non-aq 25°C 100% C K1=<1 1991ACc (107688)3091
Medium: acetonitrile, 0.01 M Et4NClO4.
****
C63H58N8O4S4 H4L (6475)
5,10,15,20-Tetrakis(o-(tetrahydro-2-thenoylamino)phenyl)porphin;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp non-aq 25°C 100% U 1992DKa (107718)3092
K(ZnL+2Ag)=7.32
Medium: CH3CN
****
C64H78O6S2 H2L CAS 506444-38-8 (8850)
25,27-O-[Ethylenedithiodimethylenedi-o-phenylenedioxydiethylene]-p-tert-butylcalix[
4]arene;

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

---
Ag+ con non-aq 25°C 100% C K1=3.39 2002ASa (107756)3093
Medium: acetonitrile.
****
C66H82O6S2 H2L CAS 506444-39-9 (8851)
25,27-O-[Thiodiethylenedithiodimethylenedi-o-phenylenedioxydiethylene]-p-t-butylcal
ix[4]arene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ con non-aq 25°C 100% C K1=4.50 2002ASa (107782)3094
Medium: acetonitrile.
****
C68H76N4O4 L CAS 123207-92-1 (7812)
5,11,17,23-Tetra-t-butyl-[25,26,27,28-tetrakis(2-pyridylmethyl)oxy]calix(4)arene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% C H K1=5.18 1998DPa (107783)3095
Medium: MeCN, 0.05 M Bu4NClO4. By calorimetry, DH(K1)=-19.04 kJ mol-1,
DS(K1)=33.60 J K-1 mol-1.
****
C68H76N4O4 L CAS 178172-53-7 (7803)
5,11,17,23-Tetra-t-butyl-[25,26,27,28-tetrakis(4-pyridylmethyl)oxy]calix[4]arene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE non-aq 25°C 100% C H K1=2.63 1998DPa (107789)3096
Medium: MeCN, 0.05 M Bu4NClO4. By calorimetry, DH(K1)=-25.63 kJ mol-1,
DS(K1)=-35.6 J K-1 mol-1.
****
C68H108N4O4 L CAS 179458-65-2 (7813)
Tetra(N,N-dimethylaminoethoxy)-4-t-butylcalix[4]arene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF non-aq 25°C 100% C I K1=4.62 1999DGb (107822)3097
Method: Ag/Ag+ electrode. Medium: MeOH, 0.05 M Bu4NClO4.
Also values in EtOH (K1=4.10), MeCN (3.07), DMF (3.77), PhCN (3.58).
****
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
---
Ag+ EMF alc/w 25°C 100% C K1=7.0 2004MFa (107826)3098
Medium: MeOH, 0.01 M Et4NCl. Method: Ag ion electrode.
****
C75H100O15 L CAS 152495-34-6 (7033)
Penta-tert-butylpentakis(ethoxycarbonylmethyloxy)calix[5]arene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp alc/w 25°C 100% U K1=4.0 1993BMa (107857)3099
Medium: MeOH, 0.1 M Et4NCl.
****
C85H80O15 L CAS 269057-77-4 (3302)
5,11,17,23,29-Pentabenzylcalix[5]arene-31,32,33,34,35-pentaethanoate pentamethyl ester;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp non-aq 25°C 100% C I K1=3.87 2000AAa (107909)3100
Medium: methanol, 0.01 M Et4NCl. Also data for acetonitrile, 0.01 M Et4NCl and for the pentaethyl ester.
****
C85H120O15 L CAS 152495-35-7 (7034)
Penta-tert-butylpentakis(tert-butoxycarbonylmethoxy)calix[5]arene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ EMF alc/w 25°C 100% U K1=4.3 1993BMa (107914)3101
Medium: MeOH, 0.1 M Et4NClO4.
****
C88H96N8O12S4 L CAS 639027-46-6 (9277)
Tetra(benzoylthiocarbamido)cavitand;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE NaCl rt 0.01M C K1=7.2 2003MGa (107925)3102
Method: segmented sandwich membrane ISE.
****
C88H96N8O16 L CAS 639030-70-9 (9278)
Tetra(benzoylcarbamido)cavitand;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE NaCl rt 0.01M C K1=3.2 2003MGa (107932)3103
Method: segmented sandwich membrane ISE.
****
C90H130O15 L CAS 269057-78-5 (3334)
5,11,17,23,29-Penta-tert-octylcalix[5]arene-31,32,33,34,35-pentaethanoate pentamethyl ester;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ sp non-aq 25°C 100% C I K1=3.82 2000AAa (107948)3104
Medium: methanol, 0.01 M Et4NCl. By potentiometry, K1=3.97.
Also data for acetonitrile, 0.01 M Et4NClO4 and for the pentaethyl ester.
****

C96H144O24 L CAS 169888-22-6 (7534)
C-Undecylcalix[4]resorcinarene octa-alpha-(methyl ethanoate);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis non-aq 25°C 100% U 1995FDa (107959)3105
K=3.91
Medium: CDCl3. Method: by H2O/CDCl3 extraction of picrate salt.
K: MA(org)+L(org)=MLA(org) where A=picrate.
****
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
---
Ag+ ISE NaCl rt 0.01M C K1=6.4 2003MGa (107986)3106
Method: segmented sandwich membrane ISE.
Phosphonic acid diethyl ester derivative: K1=8.9
****
C120H192O24 L CAS 175349-58-3 (7495)
C-Undecylcalix[4]resorcinarene octa-alpha-(tert-butyl ethanoate);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis non-aq 25°C 100% U 1995FDa (108002)3107
K=4.60
Medium: CDCl3. Method: by H2O/CDCl3 extraction of picrate salt.
K: MA(org)+L(org)=MLA(org) where A=picrate.
****
C120H200N8O16 L CAS 169888-21-5 (7490)
C-Undecylcalix[4]resorcinarene octa-alpha-(N,N-diethyl acetamide);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ dis non-aq 25°C 100% U 1995FDa (108013)3108
K=7.63
Medium: CDCl3. Method: by H2O/CDCl3 extraction of picrate salt.
K: MA(org)+L(org)=MLA(org) where A=picrate.
****
Polymer DNA (4185)
Deoxyribonucleic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag+ ISE NaClO4 23°C 0.10M U 1962YDa (108131)3109
K=6.33 to 6.62(purine binding)
K=4.8 to 5.4(other binding)
See reference for definitions
****

Polymer Gelatin (4187)
Gelatin

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	vlt	KNO3	25°C	0.20M	U		1966LMc	(108192)	3110
							K(carboxyl)=2.17		
							K(imidazole)=5.02		
							K(a-amino)=7.07		
							K(e-amino)=5.60		

See reference for definitions and more details

****

Polymer (4202)
Poly-N-vinylimidazole;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag+	gl	KNO3	25°C	1.0M	U		1960GGa	(108291)	3111
							B2eff=8.00		

Ag+ bound to two imidazole groups. See reference for definitions

****

e- HL Electron (442)
Electron;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	EMF	KCl	135°C	100%	U		1969APa	(291)	3112
							K(Ag + Ag(s)=2Ag(I)) > 12.5		

Medium: (Na,K,Al)Cl

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	sp	NaClO4	25°C	3.00M	U		1969CMc	(292)	3113
							K(Ag + e=Ag(I))=34.15(2.02V)		

Medium: HClO4. Method: also emf and kinetic methods

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	sp	NaClO4	25°C	3.00M	U	H	1969CMc	(293)	3114
							K(Ag + Co++ = Ag+ + Co+++)=1.5		

Medium: HClO4. DS=29 J K-1 mol-1. Method:also emf and kinetic methods

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	kin	KNO3	26°C	6.18M	U	M	1966ZEa	(294)	3115
							K=6.58		

Medium: 6.18 M HNO3. K: Ce+++ + Ag++ = Ce++++ + Ag+. By potentials: K=5.37

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	kin	NaClO4	25°C	3.50M	U	M	1963KPa	(295)	3116
							K=0.12		

Medium HClO4. K: Co++ + Ag++ = Co+++ + Ag+

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	EMF	none	25°C	0.0	U		1963STe	(296)	3117
							K=28.92(1711 mV)		

K: 0.5Ag2O3(s)+H+e=AgO(s)+0.5H2O. K(0.5Ag2O+3H+2e=Ag+1.5H2O)=59.40(1757 mV)

```
Ag++       EMF none   25°C  0.0  U                        1962DIa   (297)3118
                                        K=10.13(599 mV)
K: AgO(s)+0.5H2O+e=0.5Ag2O(s)+OH
--------------------------------------------------------------------------------
Ag++       EMF none   25°C  0.0  U   H                    1959BGd   (298)3119
                                        K=10.21(604 mV)
K: AgO(s)+0.5H2O+e=0.5Ag2O(s)+OH. K(AgO(s)+Ag(s)=AgAg2O(s))=4.43(262 mV);
DH=-19.0 kJ mol-1, DS=21.2 J K-1 mol-1
--------------------------------------------------------------------------------
Ag++       EMF NaClO4 25°C  4.0M U T                     1937NVa   (299)3120
                                        K(Ag+e=Ag(I)=33.82(2000mV)
Medium: HClO4. At 0.2 C: K=36.56(1982 mV). Alternatively: 25 C: K=32.62(1929
mV), 0.2 C: K=35.34(1916 mV)
--------------------------------------------------------------------------------
Ag++       EMF none   25°C  0.0  U                        1908LPa   (300)3121
                                        K=26.5(1570 mV)
K: 0.5Ag2O3(s)+H+e=AgO(s)+0.5H2O. K(AgO(s)+H+e=0.5Ag2O(s)+0.5H2O)=23.7(1400)
********************************************************************************
NO3-                    HL    Nitrate          CAS 7697-37-2  (288)
Nitrate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag++       sp  NaClO4 23°C 5.63M U        K1=-0.03       1970HKb  (9566)3122
K1=-0.14 uncorrected for hydrolysis
********************************************************************************
OH-                     HL    Hydroxide          (57)
Hydroxide;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Ag++       kin NaClO4 22°C 5.95M U                        1972HKb (10884)3123
                                        *K1=-0.5
Medium: HClO4
--------------------------------------------------------------------------------
Ag++       sp  NaClO4 22°C 5.63M U                        1970HKc (10885)3124
                                        *K1=-0.2
--------------------------------------------------------------------------------
Ag++       sol oth/un 25°C  var  U                        1959DWa (10886)3125
                                        Ks2=-5.57
                                        Ks3=-3.77
medium:KOH at various concentrations,Ks2 and Ks3 obtained by extrapolation
to I=0; Ks2: K(AgO(s)+H2O=Ag(OH)2), Ks3: K(AgO(s)+H2O+OH=Ag(OH)3)
********************************************************************************
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
--------------------------------------------------------------------------------
Ag++       gl  KNO3   25°C 0.10M M        K1=3.94   B2= 6.03  1981GVa (31810)3126
```

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	sp	oth/un	10°C	1.2M	C		1989KPa	(32529)3127	
							B2eff=8.1		

Metal ion is Ag(III). Reaction of Ag(OH)4- with HL in 1.2 M NaOH.
****
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
Ag++	gl	KNO3	25°C	0.10M	M		K1=3.80 B2= 5.87	1981GVa	(39058)3128
****
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
Ag++	kin	NaClO4	25°C	1.00M	U			1993DHb	(45623)3129
							K(AgH2A+H2L)=0.61		
							*K(Ag(H2A)H2L)=-0.39		
							K(Ag(H2A)H2L+H)=0.46		

Metal is Ag(III). H2A=ethylenebis(biguanide).
****
C6H10N2O4 H2L (3104)
Piperazine-2,6-dicarboxylic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	gl	KCl	22°C	0.10M	U		K1=4.1	1964PCa	(47736)3130
****
C6H16N10 L (4261)
Ethylenebisbiguanide; (H2N.C(:NH).NH.C(:NH).NH.CH2.)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	gl	oth/un	31°C	0.05M	U		K1=52?	1950SGa	(51768)3131
****
C7H6N4S HL CAS 86-93-1 (2731)
1-Phenyl-1H-tetrazole-5-thiol; C6H5.CN4.SH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	ISE	none	25°C	0.0	U	M		1982PPa	(53541)3132
							Kso(AgL)=-15.26		
							Kso(AgHL2)=-18.4		

Kso(Ag2IL)=-31.4

****

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
Ag++	vlt	KNO3	25°C	0.10M	U		B2=26.3	1982IGa (69527)	3133

****

C10H22N2S2 CAS 65113-46-4 (5985)
N,N'-Dimethyl-1,7-diaza-4,10-dithiacyclododecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	gl	NaClO4	25°C	0.10M	U		K1=11.15 B(AgHL)=14.71	1985SLa (76373)	3134

****

C10H24N4 L Cyclam CAS 295-37-4 (8)
1,4,8,11-Tetraazacyclotetradecane; cyclo(-(HN.CH2.CH2.NH.(CH2)3)2-)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	gl	KNO3	25°C	0.1M	U			1994GRb (76660)	3135

K(2Ag(I)NO3+L=AgL(NO3)2+Ag(0))=12.78

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	vlt	oth/un	25°C	0.20M	C		K1=43.4	1990KMc (76661)	3136

Method: polarography

****

C10H25N5 L 15-Ane-N5 CAS 295-64-7 (99)
1,4,7,10,13-Pentaazacyclopentadecane; cyclo(-(HN.CH2.CH2)5-)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	vlt	oth/un	25°C	0.20M	C		K1=43.6	1990KMc (76731)	3137

Method: polarography

****

C11H27N5 L CAS 29783-72-0 (98)
1,4,7,10,13-Pentaazacyclohexadecane; cyclo(-(NH.CH2.CH2)5.CH2-)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	vlt	oth/un	25°C	0.20M	C		K1=43.3	1990KMc (80031)	3138

Method: polarography

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Ag++	vlt	R4N.X	25°C	0.10M	U		B2=26.48	1986IGa (80415)	3139

Medium: 0.1 M (C2H5)4N.ClO4, beta obtained by chronovoltammetry
Disproportionation const. K(2AgL2+2H=AgL2+Ag+2HL)=-3.38
****
C14H32N4 L 4-Mecyclam-14 CAS 41203-22-9 (935)
1,4,8,11-Tetramethyl-1,4,8,11-tetraazacyclotetradecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag++ ISE KNO3 25°C 0.1M U 1994GRb (90802)3140
K(2Ag(I)NO3+L=AgL(NO3)2+Ag(0))=11.78
****
C16H36N4 L CAS 54622-44-5 (147)
5,5,7,12,12,14-Hexamethyl-1,4,8,11-tetraazacyclotetradecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag++ gl NaClO4 25°C 0.10M U 1985PPa (95535)3141
K(AgH-1L+H)=2.6
Metal ion: Ag(III)
****
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
---
Ag++ vlt oth/un 25°C 0.20M C K1=39.3 1990KMc (98187)3142
Method: polarography
****
C20H35N5O10 H5L (6545)
1,4,7,10,13-Pentaazacyclopentadecane-N,N',N",N"',N""-pentaethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Ag++ vlt oth/un 25°C 0.20M C K1=42.5 1990KMc (100530)3143
Method: polarography

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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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