```
SC-Database
Software version = 5.81 Data version = 4.62
Experiment list contains 4999 experiments for
(no ligands specified)
Metal : Zn++
(no references specified)
(no experimental details specified)
************************************
               HL
                   Electron
                                (442)
Electron:
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                                      1980APa (35) 1
     EMF non-aq 25°C 100% C IH
                           E0(Zn(s)/Zn++)=-1806 \text{ mV}
Medium: DMSO, 1 M NH4ClO4. E0 referred to E0(aq)=0 for the Ag(s)/Ag+ elect.
______
Zn++ oth none 25°C 0.0 U
                                      1972COa (36) 2
                           K(Zn+2e=Zn(s))=-24.65(-0.729V)
Method: Estimated data
-----
Zn++ oth alc/w 25°C 100% U I
                                      1972C0a
                                             (37)
                           K(Zn+2e=Zn(s))=-33.88(-1.002V)
Method: Estimated data. MeOH. K=-30.22(-0.894V, EtOH), -30.22(-0.894V, BuOH),
-28.03(-0.829V,PentOH), -26.54(-0.785V,acetone), -33.88(MeCN), -41.96(HCOOH)
-----
Zn++
     EMF oth/un 500°C 100% U T
                                      1972GRb
                                             (38) 4
                           K(Zn + Zn(1)=2Zn+)=-3.65
Medium: ZnBr2; K=-3.63(550 C), -3.32(600 C)
______
      EMF none 25°C 0.00 U
                                      1971BWa (39) 5
                           K=-40.74(-1.205V)
K: Zn(OH)4-- + 2e=Zn(s) + 4OH-
______
Zn++ oth none 25°C 0.0 U
                                      1970NMa
                                             (40) 6
                           K(Zn+e=Zn(I))=34(2.0V)
                           K(Zn(I)+e=Zn(s))=-8.5(-500 \text{ mV})
Method:Estimated data
      oth none 25°C 0.0 M
Zn++
                                      1968LCd
                          K(Zn+2e=Zn(s))=-25.83, -764 mV
-----
      sol non-aq 702°C 100% U T
                                      1966BSb
                                             (42) 8
                           K(Zn(a)+Zn=2Zn+)=-4.4
                           K'(Zn(a)+Zn=Zn2++)=-2
Medium: liquid ZnCl2. At 777 C: K=-4.15, K'=-1.7
_____
     EMF none 25°C 0.00 U
                                      1954DIa (43) 9
                           K=-40.94(-1.211V)
```

```
K: Zn(OH)4-- + 2e=Zn(s) + 4OH-
_____
     EMF non-aq 25°C 100% U T
                       K=-25.59(-757mV) M units
Medium: formamide; K(Zn + 2e=Zn(s))=-26.28(-759mV,18 C) M units
As04---
           H3L
               Arsenate CAS 7778-39-4 (1557)
Arsenate;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     oth oth/un 25°C 0.0 U
                                1990SAa (1116) 11
                      *K(Zn3L2(s)+2H=3Zn+2HL)=-8.20
Calculated from thermodynamic data.
    sol oth/un 20°C dil U
                                1959CHc (1117) 12
                      Kso(Zn3L2) = -26.97
**********************************
AsW11039-----
                           (2468)
alpha-Heteromonoarseno-polytungstate;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
Zn++ gl NaNO3 25°C 1.00M U K1=3.95 1984COa (1171) 13
(2469)
As2W17H2O61----
alpha-Heteropolydiarseno-polytungstate;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                       K1=7.21
     gl NaNO3 25°C 1.00M U
                                1984COa (1182) 14
                       K1=5.17 (alpha2 isomer)
************************************
B04H4-
                         CAS 10043-35-3 (991)
                Borate
Borate; B(OH)4-
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
           25°C 0.70M C
                       K1=0.9 B2=3.32
      oth KNO3
                                   1984BEa (1284) 15
Method: Differential pulse anodic stripping voltammetric (DPASV)
_____
Zn++ sol none 22°C 0.0 U
                                1959SHb (1285) 16
                       Kso(Zn(BO2)2(H20)=-10.18
                       B4=11.8 ?
**********************************
Br-
                Bromide
                      CAS 10035-10-6 (19)
             HL
Bromide:
         Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
2001KTa (1426) 17
Zn++
       EMF non-aq 25°C 100% C
                        HM
                            B(Zn(phen)Br2)=12.6
                            B(Zn(phen)2Br2)=15.9
Medium: DMF, 0.40 M Et4NClO4. Method: Zn/Hg electrode. By calorimetry,
DH(Zn(phen)Br2)=9 kJ mol-1, DH(Zn(phen)2Br2)=-51
Zn++ dis NaNO3 25°C 1.0M C I K1=0.7 2000TAa (1427) 18
for 1.5 M NaNO3 K1=1.10; for 2.0 M K1=1.32; for 3.0 M K1=2.90
for 1 M KNO3 K1=0.84; for 1.5 M K1=1.42; for 2.0 M K1=2.09
______
   cal non-aq 25°C 100% C H K1=6.2 B2=11.70 1994SKa (1428)
                            B3=15.0
Medium: Dimethylacetamide. DH(K1)=9.0 \text{ kJ mol-1}, DH(K2)=-1.0, DH(K3)=-7.8
Zn++ cal non-aq 25°C 100% U H K1=6.65 B2=10.52 1991AIa (1429) 20
hexamethylphosphoric triamide solvent with 0.1 M (C4H9)4NClO4
DH andDS values also
______
Zn++ cal non-aq 25°C 100% U HM K1=2.9 B2=8.48 1990IMa (1430) 21
                            B3=11.98
                            B(Zn(bpy)L)=7.6
                            B(Zn(bpy)2L)=10.19
                            B(Zn(bpy)L2)=11.17
In DMF, 0.16 M Et4NCl04. DH(K1)=38, DH(B2)=37.2, DH(B3)=31.5, DH(Zn(bpy)L)=
0.6, DH(Zn(bpy)2L)=-25, DH(Zn(bpy)L2)=15.7 kJ mol-1.
______
Zn++ ISE mixed 25°C 0.10M C H K1=5.67 B2=12.37 1990PDa (1431) 22
                            K3=4.55
                            K4=2.89
Medium: MeCN, 0.1 M (PyH)CF3SO3; DH(K1)=0.9, DH(K2)=-9.3,
DH(K3)=-20.8, DH(K4)=-4.5 kJ mol-1
-----
Zn++ ISE non-aq 25°C 100% C H K1=3.82 B2=5.65 1990PDa (1432) 23
Medium: Pyridine, 0.1 M (PyH)CF3SO3; DH(K1)=0.3,DH(K2)=-8.4kJmol-1
______
      oth non-aq 25°C 100% U
Zn++
                           K1=1.6 B2=4.80 1989H0a (1433) 24
                           K3 = 2.2
                           K4 = -0.6
by Raman spectroscopy in DMSO
-----
      EMF NaClO4 25°C 5.00M U
                           B2=-0.5 1988FSa (1434) 25
Zn++
                           B4 = -0.64
molal equilibrium constants: B2=-0.68; B4=-1.00
______
      cal non-aq 30°C 100% U H
                                      1988GKa (1435) 26
                            K3>6
                            K4=2.65
Medium: CH3CN. DH(K3)=-20.5, DH(K4)=-15.3 kJ mol-1; DS(K4)=0 J K-1 mol-1
-----
     ix mixed 25°C 90% C I K1=4.98 B2=8.81 1986KUb (1436) 27
```

B3=11.55

	90% acetone/H2O. In 80% acetone/H2O, K1=3.77, B2=5.97, B3=cetone/H2O, K1=2.33, B2=4.07	=7.61.
	EMF non-aq 25°C 100% U I K1=1.7 B2=4.27 1985 B3=5.8 DMSO. In DMF; K1=2, B2=7.1, B3=8.8. Data also in DMSO/H20	
mixtures.	Medium: 0.5 M NH4ClO4	
Zn++ Medium: et	ix non-aq 25°C 100% U I K1=2.60 B2=3.91 1984 ethylene glycol. K1=2.30, B2=3.32 in 5% weight aq.ethylene B2=2.78 in 10% weight aqueous ethylene glycol	4KUa (1438) 29
Zn++	ISE alc/w 25°C 100% U K1=3.35 B2=7.52 1983	3DSa (1439) 30
Zn++ Medium: di	ISE non-aq 25°C 100% U K1=3.60 1982SSd dimethylacetamide	
Zn++	oth non-aq 25°C 100% C H K1=1.86 B2=5.17 1983 B3=7.16	1ABc (1441) 32
calorimetr	DMSO, 0.1 M NH4ClO4. Mean values from potentiometry (amalgry. DH(B1)=22.3; DH(B2)=42.2; DH(B3)=36.3 kJ mol-1	
	cal non-aq 25°C 100% C H K1=1.56 B2=4.66 1983 B3=6.72	, ,
Medium: DM	DMSO, 0.1 M NH4ClO4. DH(K1)=23.7; DH(B2)=43.1; DH(B3)=36.3	3 kJ mol-1
Zn++	ISE NaClO4 25°C 3.0M U I K1=-0.55 1979FKd	(1443) 34
	ISE non-aq 25°C 100% U K1=2.78 B2=6.78 1979 B3=9.95 B4=10.30 B5=11.18 B6=11.11	9LTb (1444) 35
Medium: DM	OMF. Method: Zn-electrode 	
Zn++	ISE NaClO4 25°C 3.00M U I M K1=-0.55 B2=-0.22 1978 B3=-1.16 B(ZnClBr2)=-0.72 B(ZnCl3Br)=0.32 B(ZnCl2Br2)=-0.66	3FKa (1445) 36
	EMF oth/un 25°C 1.50M U I K1=-1.05 1978LKd ed in molality (Moles per kg) terms: K1=m(ZnBr)/m(Zn).m(Br in m(Zn(ClO4)2). K1 (m): -1.05 (2.0), -0.8 (2.5), -0.7 (3	• -
	sp non-aq 25°C 100% U M 1978NVa K(ZnA+L)=1.2 nenylporphyrin. Medium: CH2Cl2, 0.0124 Bu4N.BF4	(1447) 38

```
ISE non-aq 25°C 100% C H K1=0.85 B2=3.74 1976ABc (1448) 39
Zn++
                          K3=1.34
Medium: Dimethylsulfoxide, 1.0 M NH4ClO4; DH(K1)=27.8, DH(K2)=9.1,
DH(K3) = -4.2 \text{ kJ mol} -1
______
                          K1=0.85 B2= 3.74 1976ABg (1449) 40
Zn++ ISE non-aq 25°C 100% C
                          K3=1.34
Medium:1 M NH4ClO4 in DMSO
Zn(Hg)-electrode
Zn++ ISE NaCl04 25°C 4.00M U I M K1=0.06 1975FCa (1450) 41
                          B3=0.28
                          B4 = -0.75
                          B(ZnBr(SO4)) = -0.10
                          B(ZnBr(SO4)2)=0.50
B(ZnBr2(SO4))=1.18, B(ZnBr3(SO4))=-0.22, B(ZnBr2(SO4)2)=0.70, B(ZnBr(SO4)3)=
1.00. Data also for I=1,2 and 3 and Cd/Zn polynuclear complexes
______
Zn++ ix NaClO4 20°C 0.69M U K1=0.22 B2=-0.10 1974MId (1451) 42
                          B3 = -0.60
                          B4 = -1.21
Medium: HClO4
______
Zn++ EMF R4N.X 55°C ? U T K1=1.36 1974NGb (1452) 43
Medium: NH4NO3(H2O)2. K1=1.38(70 C), 1.41(85 C) x units
______
      dis R4N.X 55°C ? U T K1=0.43 B2=0.91 1974NGc (1453) 44
Medium: NH4N03(H2O)2. K1=0.45, K2=0.48(70 \text{ C}); K1=0.48, K2=0.54(85 \text{ C}) m units
______
Zn++ kin NaClO4 25°C 1.0M U K1=-0.32 1973HHb (1454) 45
______
Zn++ ISE non-aq 25°C 100% U
                          K1=3.30 B2=3.84 1973SLd (1455)
                          B3=5.08
Medium: DMSO. Zn amalgam electrode. By least squares: K1=3.41, B2=3.79, B3=5.23
______
Zn++ dis NaClO4 25°C 1.0M U K1=-0.5 1972MSc (1456) 47
______
                          K1=4.0 B2=7.0 1971KTj (1457) 48
Zn++ ISE non-aq ? 100% U
                          B3=10.4
                          B4=11.1
Medium: DMF, 2 M LiClO4. Zn amalgam electrode
______
Zn++ dis NaClO4 ? 1.0M U K1=-1.46 B2=-0.99 1970LEa (1458) 49 K3=-2.24
-----
Zn++ oth oth/un 20°C var U H K1=-1.9 B2=-0.50 1970MPa (1459) 50
                          K3 = -0.2
                          K4 = -0.3
Method: Raman. DH(K1)=21.3 kJ mol-1, DH(K2)=-13.0, DH(K3)=-3.3,
DH(K4)=-1.3; DS(K1)=36.4 J K-1 m0l-1, DS(K2)=-16, DS(K3)=-14.6, DS(K4)=-10.5
```

```
Zn++ cal NaClO4 25°C 3.0M U H
                                        1969GEa (1460) 51
DH(K1)=1.46 \text{ kJ mol-1}, DH(K2)=41.8, DH(K3)=(-8); DS(K1)=-5.9 \text{ J K-1 mol-1},
DS(K2)=125, DS(K3)=(-17)
Zn++ dis NaClO4 25°C 1.0M U T H K1=0.10 B2=-0.12 1969MAa (1461) 52
Medium: HClO4. DH(K1)=24.7 kJ mol-1, DS=83.7 J K-1 mol-1, DH(B2)=23.0,
K1=-0.05, B2=-0.19(10 C); K1=0.41, B2=0.47(40 C)
______
      ISE NaCl04 25°C 4.0M U I M K1=0.06 B2=-0.82 1965MRc (1462) 53
Zn++
                             B3=0.28
                             B4 = -0.74
Method:amalgam electrode. Medium: LiClO4. In 4 M LiBr: K(Na+ZnL4)=-0.34,
0.09(K), 0.17(Rb), 0.39(Cs), 0.15(NH4). K(Na+ZnL3)=-1.0, -0.5(K) etc.also others
______
Zn++ oth NaClO4 25°C 3.0M U I M K1=-0.19 B2=-1.15 1965MRc (1463) 54
                             B3 = -0.55
                             B4 = -1.5
Method:amalgam electrode. Medium: LiClO4. In 3M LiBr: K(Na+ZnL4)=-0.41,
0.15(K),0.20(Rb),0.21(Cs),0.08(NH4). K(Na+ZnL3)=-0.85,-0.54(K) etc.
______
Zn++ oth non-aq 100% U
                                        1963BCa (1464) 55
                             K3=5.5
                             K4 = 3
Method: from dielectric constants, "Job's method". Medium: Et20
______
       dis oth/un 20°C var U M
                                        1962MSc (1465) 56
Medium: HBr. K(H+ZnBr3+3T(org)=HZnBr3T3(org))=1.08; T=TBP, org=C6H6.
K(2H+ZnBr4+2T(org)=H2ZnBr4T2(org)=1.0. K(ZnBr2+2T(org)=ZnBr2T2(org)=0.23.
______
Zn++ ix NaClO4 20°C 0.69M U
                             K1=0.22 B2=-0.10 1961SMc (1466) 57
                             K3 = -0.64
                             K4 = -0.26
                             B4 = -1
Method: cation exchange; medium: HClO4
______
Zn++ oth oth/un 25°C var U K1=-0.5 B2=-0.5 1961YPa (1467) 58 K3.K4=-0.7
Method: Raman spectra.
-----
Zn++ ix oth/un 25°C var U
                            K1=0 B2=-0.15 1957HHa (1468) 59
                            K3 = -0.30
                            K4 = -0.52
Method: anion exchange; medium HBr.
______
Zn++ EMF oth/un 25°C 4.50M U H K1=-0.60 B2=-0.97 1956SLa (1469) 60
                            K3 = -0.73
                             K4=0.44
Method:Zn/Hg electrode. DH(K1)=0, DH(K2)=0, DH(K3)=110, DH(K4)=-110 kJ mol-1
DS(K1)=-11.5, DS(K2)=-7.1, DS(K3)=357, DS(K4)=-362? J K-1 mol-1
```

```
EMF NaCl04 25°C 3.0M U K1=-0.60 1944SLa (1470) 61
Method: Zn/Hg electrode. B2>-1.0 or B3>-1.0
______
     EMF oth/un 20°C var U K1=1.7 1936FRa (1471) 62
Method: Zn/Hg electrode. K1=1.2 to 2.3
*************************
                 Bromate
                             (6017)
Br03-
              HL
Bromate;
       Metal Mtd Medium Temp Conc Cal Flags Lg K values
_____
      kin non-aq 230°C 100% U T K1=1.1
                                 1961DLa (2394) 63
Medium: liquid (K,Na)NO3. K1=0.1(250 C), m units
********************************
CN-
             HL
                 Cyanide
                           CAS 74-90-8 (230)
Cyanide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·-----
                     K1=5.36
     vlt NaClO4 25°C 0.50M U
                                 2000LTa (2502) 64
Voltammetry using Hg/CN- electrode.
______
Zn++ cal NaCl 25°C 1.0M C IH
                                  1996SMc (2503) 65
DH(B4)=-118.2 \text{ kJ mol}-1, DS(B4)=-40.3 \text{ J mol}-1 \text{ K}-1.
In 1.0 M NaClO4, DH(B4)=-116.2 kJ mol-1, DS(B4)=-6.7 J mol-1 K-1.
______
Zn++
    gl NaCl 25°C 3.0M C
                               B2=10.19 1990VHb (2504) 66
                        K1=4.98
                         B3=14.54
                         B4=18.62
                         B(ZnH-1L3)=4.08
                         B(ZnH-2L2)=0.71
______
Zn++ gl NaClO4 25°C 0.10M C M B2=10.8 1988MMb (2505) 67
                         B3=16.12
                         B4 = 20.41
                         B5=22.9
                         B(ZnL3(OH))=20.4
     ISE oth/un 25°C 3.0M C TI R K1=5.3
                               B2=11.02 1987BEa (2506) 68
                         B3=16.68
                         B4=21.57
IUPAC evaluation (H Persson, Acta Chem. Scand, 25, 543)
______
      ISE KNO3 25°C 0.10M C
                         K1=5.64 B2=11.04 1985YWa (2507) 69
Zn++
                         B3=11.38
                         B4=21.42
Zn++ gl R4N.X 23°C 2.0M U M
                                  1974KBc (2508) 70
                        K(ZnA4+L=ZnA3L+A)=3.05
```

K(ZnA3L+2L=ZnA2L2+A)=2.49 K(ZnA2L2+L=ZnAL3+A)=3.31 K(ZnAL3+L=ZnL4+A)=1.9

Medium: NH	14NO3. A=NH3	K(ZHALJTL-ZHL4TA)-I.J								
Zn++	EMF oth/un 25°C 0.50M U	K1=4.94 B2=9.7 1972CDa (2509) 71 B3=14.7 B4=18.44								
Method: emf with amalgam electrode. Medium: K2SO4										
Zn++	gl oth/un 10°C 0.0 U T H									
	0.70, K3=4.50, K4=3.10. DH(B2 .1. At 10 C, DH values are -4	2)=-43.9 kJ mol-1, DH(K3)=-38.9, 43.8, -39.7, -31.0								
Zn++	EMF NaClO4 25°C 3.0M U	K1=5.3 B2=11.0 1971PEc (2511) 73 B3=16.7 B4=21.6 Kso=-15.5								
	f with amalgam electrode									
	gl KNO3 25°C 0.10M U									
Zn++	gl KNO3 25°C 0.10M U M	K1=5.27 B2=10.22 1969MBa (2513) 75 K(Zn(His)+3CN)=13.77								
Zn++	vlt non-aq 195°C 100% U									
Medium: mo										
Zn++	gl oth/un 25°C 0.0 U	B2=11.07 1965ICa (2515) 77 K3=4.98 K4=3.57 B4=19.62								
	cal oth/un 25°C 0.0 U H	· · · · · · · · · · · · · · · · · · ·								
DH(B4)=-11	cal oth/un 25°C var U H 5.8 kJ mol-1	1964GHc (2517) 79								
Zn++	EMF oth/un ? dil U	1961PJa (2518) 80 K4=5								
	oth oth/un ? var U	1960SMa (2519) 81 B4/B(Zn(OH)4)=-1 ?								

K5.K6=1.5 ?

Method: ch	emic	al anal	ysis									
Zn++	ISE	none	25°C	0.0				6.72	19	59BGb	(2520)	82
Zn++	ISE	none	25°C	0.0				6.76	19	53SUb	(2521)	83
Zn++		•						2.60(?)			(2522)	
Zn++ DH(B4)=-10	cal 0.0	oth/un kJ mol-:	?? 1	;	U	Н			19	51YAa	(2523)	85
Zn++								a.2.7			(2524)	
Zn++		•	12°C	var	U		B4=1	8.5 to 20			(2525)	
Zn++								0.25 or B4=	19 17.	31MAa 3	(2526)	
Zn++	vlt	oth/un			U		B4=1 B5=2 Kso(19		(2527)	89
Zn++	ISE	oth/un	18°C	var	U		B3=1	7.52		04KUa	(2528)	90
Zn++					U		B4=1		19		(2529) *****	
CO Carbon mon								CAS 630-08				
Metal	Mtd	Medium	Temp	Conc	Cal	Flag	s Lg	K values		Refer	ence Exp	tNo
Zn++	EMF	NaC104	20°C	1.0M	1 U		K(Zn	+Fe(CO)4)=8 +HFe(CO)4)= +ZnFe(CO)4)	.60 1.3	71GKc 5	(2782)	92
K(2ZnFe(CO *******	•	•	•	, ,		•	.7	******			*****	****
CO3 Carbonate;			H2L			ate		CAS 465-79				
Metal	Mtd	Medium	Temp	Conc	Cal	Flag	s Lg	K values		Refer	ence Exp	tNo

```
Zn++ gl NaClO4 25°C 0.0 C TI
                                    2000PKa (2986) 93
Kso(ZnCO3(s)+2H=Zn+CO2+H2O)=7.25. Solid is smithsonite.
Value derived from data for 1.0-3.0 m NaClO4. Also data at 15-50 C.
Zn++ vlt oth/un ? var C
                                    1995VPa (2987) 94
                          K1eff=2.90
                          B2eff=4.03
pH=7.9 of Pisuerga river water. Ionic strength ranged from 0.01 M to 0.75M.
Method: Anodic Stripping Voltammetry.
-----
     kin NaClO4 25°C 0.10M M M 1992KKb (2988) 95
                          K(ZnA+HL)=4.0
A:1,5,9-triazacyclododecane
------
                         K1=3.30 1990SBb (2989) 96
Zn++ dis NaCl 25°C 0.68M C
                         K(Zn+HL)=0.85
_____
Zn++ ISE NaClO4 25°C 3.00M C
                         B2=6.9 1987FGa (2990) 97
                          B(Zn(OH)2L)=12.2
______
Zn++ sp NaClO4 25°C 0.01M C TIH
                                   1985EFa (2991) 98
                          K(Zn+HCO3)=1.44
Data for 25-45 C and 0.0012-0.05 M NaClO4.
DH(Zn+HCO3)=8.6 \text{ kJ mol}-1.
______
Zn++ gl none 25°C 0.0 U
                                    1985FGa (2992) 99
                          K(Zn+HL)=0.8
                         B(Zn2L)=5.1
-----
      oth oth/un 25°C 0.0 C H K1=4.80 1984FCa (2993) 100
Zn++
                          K(Zn+HCO3)=2.20
K(Zn+HCO3) calc using electrostatic model. K1 from assessment of lit data.
DH(K1)=-0.4 kJ mol-1, DH(Zn+HCO3)=4.3 (from DS calc by electrostat model)
______
Zn++ gl none 10°C 0.0 M T H
                                    1978RBc (2994) 101
                          K(Zn+HL)=1.42
At 25 C: K(Zn+HL)=1.40; 40 C: 1.47; 55 C: 1.57; 70 C: 1.63
------
Zn++ vlt KNO3 25°C 0.10M U K1=3.9 1976BHa (2995) 102
-----
Zn++ oth none 50°C 0.0 U T
                                    1969HEa (2996) 103
                          Kso = -10.05
Method: Estimated data. Temp. range 50-300 C, (smithsonite). Kso=-10.19(60C);
-10.88(100 C); -11.77(150 C); -12.90(200 C); -14.18(250 C); -15.52 (300 C)
______
Zn++ sol NaClO4 25°C 0.20M U
                                    1969SRa (2997) 104
                          *Kpso=7.57
                          *Kpso=7.35 (0 corr)
*Kpso(0.2Zn5(OH)6L2(s)+2H=Zn+0.4CO2(g)+1.6H2O)=9.42, (9.20, 0 corr)
```

```
sol oth/un 20°C 0.06M U I M
Zn++
                                  1952SAa (2998) 105
                        Ks = -14.42
Ks: ZnL0.36(OH)1.28=Zn+0.36L+1.28OH. By Zn electrode, I=0 corr. Kso=-10.84
                     1935KAa (2999) 106
Zn++
      oth none
             25°C 0.0 U
                        Kso(ZnCO3(s)) = -10.00
                        +Kpso=-7.51
From thermodynamic data. +Kpso: ZnCO3(s)+CO2(g)+H2O=Zn+2HCO3.
By solubility Kso=-10.78
            25°C 0.0 U T
Zn++
      sol none
                                  1918SMa (3000) 107
                        Kso(ZnCO3(s)) = -10.68
                        +Kso=-6.82
I=0 corr. +Kso: ZnCO3(s)+H2CO3=Zn+2HCO3. +Kso=-6.78(30 C)
______
     sol oth/un 25°C var U
                                  1911AVa (3001) 108
                        Kso(ZnCO3(s))=-9.06
******************************
                 Dicyanamide CAS 504-66-5 (2917)
C2N3-
Dicyanamide; (NC.N.CN)-
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      ISE non-aq 25°C 100% C K1=2.11
                                 1982SSd (3467) 109
Medium: dimethylacetamide
*******************************
                             (2919)
C3N30-
             HL
Nitrosodicyanmethanide; (ON.C(CN)2)-
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
      ISE non-aq 25°C 100% C K1=1.95
                                  1982SSd (3474) 110
Medium: dimethylacetamide
********************************
C4N3-
                          CAS 454-50-2 (2918)
Tricyanomethanide; (C(CN)3)-
-----
      Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
-----
      ISE non-aq 25°C 100% C K1=2.0
                                  1982SSd (3476) 111
Medium: dimethylacetamide
******************************
C6N6Co---
             H3L
                 Cyanocobaltate (5470)
Hexacyanocobaltate; [Co(CN)6]---
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     con oth/un 0°C U K1=3.5
                                 1969SSb (3481) 112
*********************************
```

```
(2191)
C6N6Fe----
              H4L
Hexacyanoferrate (II); Fe(II)(CN)6----
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ con oth/un ?
                    U
                                    1970BEa (3527) 113
                          Kso = -16.8
                          Ks(K2Zn3L2=2K+3Zn+2L)=-38.3
______
Zn++ ISE oth/un 25°C 0.0 U
                                    1964RPa (3528) 114
                          Kso(Zn2L) = -15.68
                          Kso(KZn1.5L) = -21.09
Method:amalgam electrode. Medium:0 corr
                  Zn++
     sol oth/un 25°C var U
                                    1961BSb (3529) 115
                          Kso=-14.22 ?
______
      sol oth/un 25°C var U
                                    1956TGb (3530) 116
                         Kso = -15.39
**********************************
C1-
              HL
                  Chloride
                            CAS 7647-01-0 (50)
Chloride;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ EMF non-aq 25°C 100% C HM
                                    2001KTa (3933) 117
                          B(Zn(phen)Cl2)=16.4
                          B(Zn(phen)2C1)=16.0
                          B(Zn(phen)2C12)=18.69
Medium: DMF, 0.40 M Et4NClO4. Method: Zn/Hg electrode. By calorimetry,
DH(Zn(phen)Cl2)=-19 kJ mol-1, DH(Zn(phen)2Cl)=-57, DH(Zn(phen)2Cl2)=-60
      ISE NaNO3 25°C 0 C TI K1=0.46
                                   1998RSa (3934) 118
Method: Cl-ISE, extrapolated to I=0
______
       sol NaCl
             200°C 0.10M C K1=1.7
                                  B2= 3.00 1998WBa (3935) 119
Method: solubility of ZnO (zincite) in 0.10 m NaCl.
------
Zn++ oth NaCl
              25°C 0.0 U I
                          K1=0.43
                                 B2= 0.61 1996AEb (3936) 120
                          B3=0.51
                          B4=0.20
Method: SIT theory applied to literature data. Medium: LiCl, infinite
dilution. In 1.0 M LiCl, K1=-0.08, B2=-0.35, B3=-0.34, B4=-0.27.
               400°C var U TI
                           K1=7.70 B2=8.40 1994CHa (3937) 121
      sol KCl
300-600 C and 0.5-2.0 kbar. Constants at I=0, 1.0 kbar
              -----
Zn++ gl NaClO4 25°C 0.10M M
                                    1994KTa (3938) 122
                          K(ZnA+L)=1.5
A:1,4,7,10-Tetraazacyclododecane. By kinetic methods, K=1.2
```

```
Zn++ cal non-aq 25°C 100% C H K1=8.6 B2=16.40 1994SKa (3939) 123
                            B3=21.4
                            B4=23.4
Medium: Dimethylacetamide. DH(K1)=-1.8 \text{ kJ mol}-1, DH(B2)=-22.5, DH(K3)=-39.4,
DH(K4) = -50
______
Zn++ kin NaClO4 25°C 0.10M M M
                                 1992KKb (3940) 124
                           K(ZnA+L)=1.3
A:1,5,9-triazacyclododecane
                       _____
_____
Zn++ cal non-aq 25°C 100% U H K1=9.49 B2=16.01 1991AIa (3941) 125
                            K3 = 3.64
                            K4=2.29
Medium: hexamethylphosphoric triamide, 0.1 M (C4H9)4NClO4. Also DH and DS
______
Zn++ ISE non-aq 25°C 100% C I
                                     1990CHb (3942) 126
                            B3=20.0
                            B4=24.9
Medium: MeCN, 0.1 M Et4NClO4. Also data at 0% MeCN: K1=-0.34, B2=-0.71;
5% MeCN: K1=0.0; 10% AN: K1=0.41; 50% AN: K1=2.7, B2=6.25, B3=7.48
______
Zn++ ISE non-aq 25°C 100% C IH K1=8.07 B2=15.26 1990PDa (3943) 127
                            K3=4.87
                            K4=2.89
Medium: MeCN, 0.1 M (PyH)CF3SO3; DH(K1)=-5.8, DH(K2)=-7.1, DH(K3)=-20.0,
DH(K4)=-11.3 \text{ kJ mol}-1. \text{ In pyridine } K1=2.73, K2=2.11; DH(K1)=-2.5, DH(K2)=6.7
Zn++ sp non-aq 25°C 100% U H K1=3.5 B2=8.6 1990SIa (3944) 128
                            B3=12.21
                            B4=13.17
Medium: DMSO, 0.4 M Et4NBF4. By calorimetry: DH(K1)=16 kJ mol-1, DH(B2)=24.8
DH(B3)=13.3, DH(B4)=6.6
Zn++ EMF NaClO4 25°C 5.00M U I B2=0.57 1988FSb (3945) 129
                            B4=0.63
Molal equilibrium constants: B2=0.39; B4=0.27
______
Zn++ cal non-aq 30°C 100% U H
                                      1988GKa (3946) 130
                            K3>6
                            K4=3.34
Medium: CH3CN. DH(K3)=-26.4, DH(K4)=-21.1 kJ mol-1; DS(K4)=6 J K-1 mol-1
______
       ISE non-aq 25°C 100% U K1=4.08 B2=9.8 1988SGa (3947) 131
Medium: DMSO, 0.1 M Et4NCl
______
Zn++ sol NaCl 100°C var M TIH K1=1.2 B2= 1.90 1987BBe (3948) 132
                            B3=2.3
                            B4=1.4
Solubility zincate (ZnO) and smithsonite (ZnCO3) in 0-5.0 m NaCl-CO2 soln.
```

```
Data 100-350 C. At 100 C, DH=10.0 (K1), 14.6 (B2), 18.8 (B3), 16.3 (B4).
______
      EMF non-aq 25°C 100% U H K1=2.81 1987BCb (3949) 133
Medium: MeOH, 0.05 M Et4NClO4
______
Zn++ cal non-aq 25°C 100% C H K1=4.81 B2=11.80 1987IOa (3950) 134
                         K3=5.26
                         K4=2.22
Medium: N,N-dimethylformamide, 0.4mol dm-3 Et4NClO4. DH(K1)=14.7 kJ mol-1,
DH(K2)=1.4, DH(K3)=-17.6, DH(K4)=-7.9
______
Zn++ EMF mixed 25°C 30% U K2=0.76 1987PIa (3951) 135
                         B3=1.43
                         B4=1.64
Medium: 30% DMF/H20
______
Zn++ ISE non-aq 30°C 100% U K1=12.1 B2=25.50 1986BWa (3952) 136
                         K3=10.1
                         K4=5.2
Medium: Sulfolane
______
     dis NaNO3 25°C 1.1M U I K1=-0.25 B2= 1.89 1986PSa (3953) 137
For I=0 (extrapolation) K1=0.35
In 0.1 M KNO3 K1=-0.19; in 0.1 NH4NO3 K1=-0.22
______
Zn++ sol oth/un 100°C var U TIH K1=1.80 B2=1.92 1986RSb (3954) 138
                         B3=1.36
                         B4=2.04
Constants valid at I=0. I=0.3-3.5 M HCl. 100-350 C.
DH(K1)=52.7 \text{ kJ mol-1; } DH(K2)=-4.2; DH(K3)=-9.7; DH(K4)=8.7
______
Zn++ EMF non-aq 25°C 100% U I K1=3 B2=8.2 1985GSa (3955) 139
                         B3=10.7
Medium: DMF. In DMSO; B2=6.16, B3=8.76. Data also in DMSO/H2O & DMF/H2O
mixtures. Medium: 0.5 M NH4ClO4
______
      ISE oth/un 25°C 2.0M U I K1=-0.33 B2=-0.46 1985PBc (3956) 140
Zn-electrode; in Mg(ClO4)2; for I=3.0 M K1=-0.28; B2=-0.38
in Ca(ClO4)2 (I=2.0) K1=-0.29; B2=-0.42; I=3.0: K1=-0.22;
_____
Zn++ ISE alc/w 25°C 100% U K1=3.89 B2=8.13 1982DKa (3957) 141
                        K3=2.60
                        K4=1.41
______
Zn++ sp non-aq 25°C 100% U I B2=7.04
B3=11.32
                                  1982LPa (3958) 142
Medium: DMSO, 0.2 M M(ClO4)2
_____
Zn++ ISE non-aq 25°C 100% U K1=3.80 1982SSd (3959) 143
Medium: dimethylacetamide
```

```
Zn++ con mixed 25°C 99% U I B2=6.16
                                   1980GSa (3960) 144
                         B3=8.76
In 99% mol/mol DMSO/H2O, 0.5M NH4ClO4. In 69% DMSO/H2O, B2=5.38, B3=7.35.
In 58% DMSO/H2O, K1=0.2, B2=4.84, B3=6.57. Also data for other compositions
______
Zn++ ISE NaClO4 25°C 3.0M U I
                          K1=-0.19 1979FKd (3961) 145
______
                          K1=4.0 B2=8.48 1979LTb (3962) 146
Zn++ ISE non-aq 25°C 100% U
                         B3=13.08
                         B4=13.60
                         B5=14.30
                         B6=14.85
Medium: DMF. Method: Zn-electrode
-----
                      Zn++ dis oth/un 25°C ? U
                         K1=0.38 B2=0.28 1978BZa (3963) 147
                         B3 = -0.17
                         B4 = -0.82
Zn++ ISE NaCl04 25°C 3.00M U I M K1=-0.19 B2=-0.19 1978FKa (3964) 148
                          B3 = -0.22
                          B4 = -0.70
                          B(ZnClBr)=-0.02
                          B(ZnCl2Br)=-0.16
B(ZnC1I2) = -0.72, B(ZnC12I) = -0.37 and B(ZnC13I) = -0.08.
______
                          1978NVa (3965) 149
Zn++
      sp non-aq 25°C 100% U M
                         K(ZnA+L)=2.5
A=Tetraphenylporphyrin. Medium: CH2Cl2, 0.0124 Bu4N.BF4
-----
Zn++ gl NaCl04 25°C 4.00M U K1=0.34 B2=0.00 1977SJe (3966) 150
                         B3=0.71
                         B4 = 0.40
-----
Zn++ dis NaNO3 RT 1M U
                         K1=0.73 B2= 1.17 1977SKg (3967) 151
                         K3 = 0.03
                          K4 = -0.57
Extraction into benzene from HNO3 with trioctylamine
______
      ISE non-aq 25°C 100% C H K1=1.93 B2=5.83 1976ABc (3968) 152
                         K3=2.23
                          K4=1.0
Medium: Dimethylsulfoxide, 1.0 M NH4ClO4; DH(K1)=22.3, DH(K2)=0.8,
DH(K3) = -10.2 \text{ kJ mol} -1
_____
Zn++ ISE non-aq 25°C 100% C
                         K1=1.93 B2= 5.83 1976ABg (3969) 153
                         K3 = 2.23
Medium: 1 M NH4ClO4 in DMSO
Zn(Hg)-electrode
______
```

```
K1=0.49 B2= 0.00 1976SMb (3970) 154
       dis oth/un 20°C var C
Zn++
                            B3=0.92
                            B4=0.02
Method: extraction from 0.005-0.5 M HCl solution into Aliquot-336/benzene.
Zn++ ISE NaCl04 25°C 4.00M U I M K1=0.15 B2=0.57 1975FCa (3971) 155
                            B3=0.78
                            B4=1.00
                            B(ZnC1(SO4))=0.38
                            B(ZnC12(SO4))=0.48
B(ZnC1(SO4)2)=0.48, B(ZnC13(SO4))=1.30, B(ZnC12(SO4)2)=0.60. Data also for
I=1,2 and 3 and Cd/Zn polynuclear complexes
Zn++ gl none 25°C 0.0 U B2=-0.10 1975LTa (3972) 156
______
                            K1=0.2 B2=0.8 1974ASb (3973) 157
Zn++ ISE NaClO4 25°C 5.0M U TI
                            B3=1.1
                            B4=(0.9)
At I=4: K1=0.1,B2=0.5,B3=0.7; I=6: K1=0.3,B2=1.1,B3=1.5
At 60 C,I=3: K1=-0.2,B2=0.6,B3=0.8. Method: Zn amalgam and Ag electrodes
______
Zn++
      ISE non-aq 25°C 100% U
                            K1=6.66 B2=12.86 1974BAd (3974) 158
                            B3=18.11
                            B4=22.0
Medium: TBP. Method: Ag electrode
______
      ISE NaClO4 25°C 1.0M U K1=0.11 1974BLb (3975) 159
______
                            K1=6.5 B2=12.7 1974BMa (3976) 160
       ISE non-aq 25°C 100% U I
                            B3=18.9
                            B4=24.8
Medium: LiCl in tributylphosphate, saturated with H2O; AgCl/Cl-electrode
______
                            K1=0.72 B2=0.53 1974MId (3977) 161
Zn++ ix NaClO4 20°C 0.69M U
                            B3=0.16
                            B4 = -0.32
Medium: HClO4
______
       EMF R4N.X 55°C x=2 U TIH K1=1.52
                                    B2=3.52 1974NGb (3978) 162
Medium: NH4NO3(H20)x(x=2). K1=1.64, K2=1.76(70 C). When x=3:K1=1.38, K2=1.92
DH(K1)=18 kJ mol-1, DS=84 J K-1 mol-1
______
     dis R4N.X 55°C ? U T
Zn++
                            K1=0.58 B2=1.60 1974NGc (3979) 163
                            K3=0.72
                            K4=0.41
Medium: NH4NO3(H2O)2. K1=0.65, K2=1.00, K3=0.51, K4=0.65(70 C)(m units)
                        _____
Zn++ ISE non-aq 25°C 100% U
                                       1973AMa (3980) 164
                            B3=20.1
                            B4=23.4
```

```
Medium: MeCN, 0.1 M Et4NClO4. Method: Zn amalgam electrode
______
     EMF non-aq 300°C 100% U
                                 1973BBc (3981) 165
                       K4=2.15(m units)
Medium: (K,Al)Cl, 51.7% KCl
                    -----
Zn++ ISE mixed 25°C 50% U
                       K1=1.93 B2=2.51 1973BMa (3982) 166
                       B3=2.90
Medium: 50% v/v hexamethylphosphortriamide/H2O, 2 M NH4NO3
______
    kin NaClO4 25°C 1.0M U K1=-0.06 1973HHb (3983) 167
_____
     ISE non-aq 25°C 100% U
                       K1=3.48 B2=6.00 1973SLd (3984) 168
Zn++
                       B3=8.64
Medium: DMSO, 1 M LiClO4. By least squares: K1=3.38,B2=5.90,B3=8.65.
Method: Zn amalgam electrode
______
     sol NaClO4 25°C 0.20M U K1=0.78
                              1972GSa (3985) 169
______
                       K1=0.78 1972GSa (3986) 170
Zn++ sol NaClO4 25°C 0.20M U I
                       *Kso(Zn(OH)1.6Cl0.4)=8.22
                       *Kso(Zn(OH)1.8Cl0.2)=9.84
______
     dis NaCl04 25°C 1.0M U K1=0.00 1972MSc (3987) 171
-----
      EMF non-aq 25°C 100% U B2=9.27 1971DTb (3988) 172
Medium: SeOCl2, 0.5 M Et4NClO4
______
Zn++ EMF NaClO4 25°C 3.0M U
                       K1=0.00 B2=-0.07 1971FCb (3989) 173
                       B3=0.33
Medium: LiClO4
______
Zn++ ISE NaClO4 15°C 3.0M U TI K1=-0.11 B2=-0.07 1970FCa (3990) 174
                       B3=0.04
                       B4 = -0.2
Medium:LiCl04.K1=-0.24,B2=-0.34,B3=-0.08(I=2);K1=-0.05,B2=0.46,B3=0.74,
B4=0.54(I=4). Method: Zn amalgam electrode. Data from 15 - 65 C
-----
     dis NaClO4 ? 1.0M U
                        K1=-0.37 B2=0.31 1970LEa (3991) 175
                       K3 = -0.30
                       K4 = -0.07
______
Zn++ ix oth/un ? var U M
                                1970LEa (3992) 176
                       K(ZnBr2+L)=0.5
                       K(ZnBr2L+L)=-0.3
Zn++ cal NaCl04 25°C 3.0M U H 1969GEa (3993) 177
DH(K1)=5.5 kJ mol-1,DS=15.1 J K-1 mol-1; DH(K2)=37.7,DS=113; DH(K3)=0,DS=8
______
Zn++ oth none 50°C 0.0 U T K1=0.90 B2=1.12 1969HEa (3994) 178
```

B3=1.14

B4=0.89

	78, 3.19, 3.34, 3.35	C: values: 1.82, 2.13, 2.23, 2.14;
Zn++	ix NaCl ? var U	1969LTa (3995) 179 K3=-0.3 K4=-0.1
	dis NaClO4 25°C 1.0M U T H	K1=0.83 B2=0.56 1969MAa (3996) 180 B3=0.66
		(10 C); K1=1.02,B2=0.72,B3=1.05(40 C) DH(B2)=22.6,DS=88; DH(B3)=52.7,DS=205
Zn++	EMF oth/un ? var U	B2=0.57 1969SMm (3997) 181 B3=0.06 B4=-0.3
B2=0.60, E	B3=0.15	number=6. Assuming a c.no. of 4:
		1968LPb (3998) 182 K(3ZnL2S2+2S=ZnS6+2ZnL2S)=-6.0
Medium(S):	: MeCN K=-5.01 in diagram	
Zn++	oth oth/un 23°C var U	K2=0 1968SCc (3999) 183 K3=0
Method:ele	ectrical migration or transfer	ence number. Medium:LiCl var
Zn++	ISE oth/un 25°C 0.0 U T	1968SMe (4000) 184 Ks(Zn(OH)2-xClx(H2O)y)=-13.63
Data for >	x=0.5, y=0.7 after 1 hour and	times up to 4 months. See also p.2764
Zn++	oth oth/un var U	B2=-1.50 1967GIa (4001) 185 K3K4=-1.4
Method:Ran	man spectra. Medium:(Li,Zn)C	
Zn++	oth oth/un 25°C var U	1967JCa (4002) 186 K3=0.8
Method:fro	om molar volumes	
Zn++	dis oth/un 25°C 0.0 U	K1=-0.19 B2=0.18 1966SOa (4003) 187 B3=-1.4 B4=-1.52
Zn++	ISE oth/un 25°C 4.0M U M	
Method:ama	algam electrode. Medium: LiCl	
Zn++	ISE oth/un 25°C 2.50M U T	1964BMc (4005) 189

```
Method:amalgam electrode. Medium:Ca(ClO4)
_____
    ISE NaCl04 25°C 4.0M U M K1=0.3 B2=0 1964MKc (4006) 190
                        K(Na+ZnCl3)=-0.7
                        K(K+ZnC13)=-0.2
                        K(2K+ZnCl3)=-1
                        K(Rb+ZnCl3)=-0.1
Method:amalgam electrode. Medium: LiClO4. K(2Cs+ZnCl3)=-0.5
______
                           1963MIb (4007) 191
Zn++ ISE KCl 25°C 4.0M U
                       K(K+ZnC13)=-0.28
                       K(K+ZnC14)=0.0
Method:amalgam electrode. Medium: LiCl
______
Zn++ ix none 25°C 0.0 U K1=0.43 B2=0.61 1963MMd (4008) 192 B3=0.53
                       B4=0.20
Zn++ ix oth/un 25°C 10.0M U
                                 1962MIa (4009) 193
                        K(H+ZnC14)=0.9
                        K(H+HZnC14)=0.58
Medium: LiCl
______
                            1962MSc (4010) 194
Zn++ dis oth/un 20°C var U
K(ZnL2+2TBP(C6H6)=ZnL2(TBP)2(C6H6))=-0.8, K(H+ZnL3+3TBP(C6H6)=HZnL3(TBP)3
(C6H6))=0.3, K(2H+ZnL4+2TBP(C6H6)=H2ZnL4(TBP)2(C6H6))=-0.4
_____
Zn++ ix NaClO4 20°C 0.69M U
                       K1=0.72 B2=0.49 1961SMc (4011) 195
                       K3 = -0.68
                       K4=0.37
                       B4=0.18
______
Zn++ ix none 115°C 0.0 U T H B2=2.57 1960KRa (4012) 196
I=0 corr. B2=3.30(150 C), DH(B2)=66 kJ mol-1
______
Zn++ dis NaCl04 20°C 1.0M U K1=0.2 B2=0.3 1960TDa (4013) 197
______
      oth oth/un 0°C sat U I K1=0.27 1959KEb (4014) 198
Method: freezing point, medium: KClO3 sat. In KClO4 sat. K1=0.68, I=0 corr
K1=0.96
______
Zn++ ix none ? 0.0 U K1=-0.5 B2=-1.0 1959MCa (4015) 199
                       K3=1.00
                       K4 = -1.0
                       K(H+ZnC14=HZnC14)=0.00
                       1958ASd (4016) 200
Zn++ ISE none 25°C 0.0 U
                       Ks(ZnCl0.5(OH)1.5)=-13.4
______
```

```
Zn++ ix alc/w 24°C 24% U
                                   1957HHa (4017) 201
                         K3=1.3
                         K4 = -1.3
                         K(Li+ZnCl4)=1.7
                         K(H+ZnCl4)=1.85
Medium: 24 mole % EtOH/H2O. K(2Cs+ZnCl4)=2.7.
-----
     vlt NaCl04 25°C 2.0M U K1=-0.49 B2=0.02 1957KLa (4018) 202
                        K3 = -0.09
Zn++ gl NaClO4 25°C 4.0M U I
                                   1957KLb (4019) 203
                         B(Zn2H-1L)=-7.11
In 4 M NaCl: K(2ZnL3+H2O=(Zn2L5(OH)+H+L)=7.18
                      ______
Zn++ cal R4N.X 25°C 25% U H
                                  1957TSa (4020) 204
Medium: 25% NH4Cl/H2O. DH(B4)=29 kJ mol-1
______
      oth non-aq 300°C 100% U B2=2.58 1956ARc (4021) 205
                        B4=3.29
Method: freezing point, medium: liquid NaNO3, m units
______
Zn++ ISE oth/un 25°C 4.50M U H K1=-0.32 B2=-0.05 1956SLa (4022) 206
                         K3 = -0.25
                         K4=0.15
Method: Zn/Hg electrode. DH(K1)=0 kJ mol-1,DS=-6 J K-1 m-1; DH(K2)=21.3, DS=
77; DH(K3)=59.1,DS=192; DH(K4)=-75.7,DS=-251 ? (misprints in text?)
______
Zn++
     ISE none 25°C 0.0 U
                                   1956TSa (4023) 207
                     B4=0.88
-----
     vlt R4N.X 25°C 20% U
                                   1956TSb (4024) 208
                        B4=1
Medium: 20% NH4Cl/H2O
                             1950FHa (4025) 209
Zn++ gl oth/un 25°C var U
                         Ks(ZnCl0.29(OH)1.71)=-14.92
                         Ks(ZnCl0.4(OH)1.6)=-14.2
______
Zn++ ISE NaClO4 25°C 3.0M U
                         K1=-0.19 B2=-0.6 1944SLa (4026) 210
                        B3=0.15
-----
      ISE oth/un 25°C var U K1=0.6 ? 1940RSb (4027) 211
Method: Zn/Hg electrode, medium: ZnCl2
______
      con alc/w 25°C 100% U
                                   1934CHa (4028) 212
                         K3/K2 = -4.80
Medium: EtOH
**********************************
C103-
             HL Chlorate CAS 7790-93-4 (971)
Chlorate;
```

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ cal oth/un 25°C 1.00M U H 1975ARa (6021) 213 DH(K1)=-4.37 kJ mol-1. DS = -16.9 J K-1 mol-1. Medium: 1.0 M NaClO3
Zn++ kin NaClO4 25°C 1.0M U K1=-0.12 1973HHb (6022) 214 ************************************
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ con non-aq 25°C 100% U K1=1.54 1981LGa (6120) 215 Medium: DMSO; K1 in DMSO/benzene (mole fraction 0.3)=1.77
Zn++ con non-aq 25°C 100% U T K1=1.7 1973DFa (6121) 216 Medium: MeCN. K1=1.5(-30 C), 1.5(-15 C)
Zn++ con none 20°C 0.0 U K1=1.35 1963FPb (6122) 217 I=0 corr. By Zn electrode, K1=1.6? ***********************************
Chromate;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl none 20°C 0.0 U 1954FHa (6453) 218 Ks(Zn(Cr04)0.2(OH)1.6)=-16.3 ***********************************
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ ISE NaClO4 25°C 1.00M U I K1=3.5 1990HTb (6608) 219 Using fluoride ion-selective electrode. Data at 0.01 to 3.0 M NaClO4. B1=3.6, B2=3.8 using amalgam electrodes (1.0 M NaClO4)
Zn++ ISE R4N.X 25°C 0.05M U I K1=1.30 1983SBa (6609) 220 Medium: 0.05 M Et4NF. In MeOH, 0.05 Et4NF, K1=3.36
Zn++ ISE NaClO4 25°C 1.00M U I K1=1.1 1981KBb (6610) 221
Zn++ sp non-aq 25°C 100% U M 1978NVa (6611) 222 $ K(ZnA+L) > 4 \\ A=Tetraphenylporphyrin. Medium: CH2Cl2, 0.0124 Bu4N.BF4 $
Zn++ ISE NaClO4 25°C 3.00M U K1=0.88 1976KBa (6612) 223

```
cal oth/un 25°C 0.50M U H K1=0.48 1974ARc (6613) 224
DH(K1)=12.8 kJ mol-1, DS=52 J K-1 mol-1
-----
      ISE NaClO4 25°C 1.0M U K1=0.51
                                1972BHc (6614) 225
method:emf with fluoride-ion selective electrode
______
     ISE none 25°C 0.0 U K1=1.15 1971CDb (6615) 226
_____
Zn++ ISE NaNO3 16°C 0.50M U K1=0.45 1970BOa (6616) 227
     vlt NaClO4 25°C 1.0M U K1=1.0
                                1970B0b (6617) 228
______
    vlt KNO3 30°C 1.0M U K1=0.95 1969BOa (6618) 229
______
Zn++ cal NaClO4 25°C 1.0M U H K1=0.75 1969GEa (6619) 230
DH(K1)=8.3 \text{ kJ mol-1}, DS=42.3 \text{ J K-1 mol-1}(I=1); DH(K1)=7.66, DS=41.84(I=3)
Zn++ EMF NaClO4 20°C 1.0M U K1=0.81 1969VAa (6620) 231
Electrode: quinhydrone electrode
______
   vlt NaNO3 25°C 0.30M U K1=0.92 1967VKa (6621) 232
_____
Zn++ vlt NaNO3 18°C 1.0M U K1=1.53 1965SGc (6622) 233
     vlt NaClO4 25°C 2.0M U K1=0.85 1963MHa (6623) 234
-----
     EMF NaCl04 25°C 0.50M U TIH K1=0.73 1958CPa (6624) 235
                       K(Zn+HF=ZnF+H)=-2.18
DH(K1)=6.3 kJ mol-1, DS=33 J K-1 mol-1; DH(*K1)=-9.6, DS=-71. At 15 C: *K1=
-2.15, K1=0.70; 35 C: *K1=-2.27, K1=0.73. At I=0 corr: K1=1.26
-----
                             1956ARa (6625) 236
Zn++ EMF NaClO4 20°C 1.00M U K1=0.77 1956ARa (6625) 236
Zn++ EMF NaClO4 25°C 0.50M U TIH K1=0.73
                                1955PAa (6626) 237
K1=0.70(15 C), K1=0.73(35 C). DH(K1)=6.3 kJ mol-1, DS=33 J K-1 mol-1 (25 C)
At I=0 cor: K1=1.26, DS=54
********************************
FClBrI
                           (541)
            HL
Halides, comparative (for book data under ligand 80)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ dis non-aq 200°C 100% U T H
                                 1968ZAc (7378) 238
                       K(Zn+C1)=5.2
                       K(ZnCl+Cl)=4.9
                       K(ZnC12+C1)=0.85
                       K(ZnC13+C1)=0.7
Medium:(Li/K)NO3 eutectic. Kd(ZnCl2(melt)=ZnCl2(polyphenyl eutectic)=0.34
Also at 150 C and data for Br, I
______
```

```
1968ZEa (7379) 239
Zn++
      dis non-aq 200°C 100% U T M
                        K(ZnCl2+ZnBr2=2ZnClBr)=1.28
                        K(ZnCl2+ZnI2=2ZnClI)=1.11
                        K(ZnBr2+ZnI2=2ZnBrI)=0.96
                        K(ZnCl2+Br)=0.7
Medium: (Li/K)NO3 eutectic. Data for 150 to 200 C and for many mixed equilib.
***********************************
                           CAS 37369-86-1 (2466)
             H8L
alpha-Heteromonogermanium-polytungstate;
-----
      Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
Zn++ gl NaNO3 25°C 1.00M U K1=6.32 1984COa (7463) 240
******************************
HP03--
             H2L
                 Phosphite CAS 13598-36-2 (6305)
Phosphite;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        K1=4.76
     ISE oth/un 20°C var U
Zn++
                                  1965FPa (7500) 241
                        B(Zn+HL)=2.28
                        B(ZnHL+HL)=1.26
                        K(ZnL+H)=4.07
Other methods: H electrode, conductivity
********************************
                           CAS 7732-18-5 (6115)
H20
                 Water
Water
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                                     1968L0a (7565) 242
     vlt alc/w 25°C 100% U
                         K1=1.29
                               B2=2.01
Zn++
                        K3 = -0.40
                        K4 = -1.43
Medium: MeOH. By chronopotentiometry: K1=1.07, K2=0.64, K3=-0.46, K4=-1.42
______
Zn++
     vlt alc/w 25°C 100% U
                        K1=-0.30 B2=0.22 1961MGa (7566) 243
                        B3=0.36
Medium: MeOH, 0.01 M NH4ClO4
**********************************
                 Hypophosphite CAS 6303-21-5 (6304)
H2P02-
             HL
Hypophosphite;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      nmr NaNO3 25°C 4.0M U I
                        K1=0.3
                              B2=0.0
                                    1968HGb (7633) 244
With 4 M NaClO4: K1=0.54, B2=0.2
I-
             HL
                 Iodide
                           CAS 10034-85-2 (20)
Iodide;
______
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ EMF non-aq 25°C 100% C HM
                                     2001KTa (7669) 245
                          B(Zn(phen)I2)=9.3
                          B(Zn(phen)2I2)=13.9
Medium: DMF, 0.40 M Et4NClO4. Method: Zn/Hg electrode. By calorimetry,
DH(Zn(phen)I2)=10 kJ mol-1, DH(Zn(phen)2I2)=-41
______
Zn++ cal non-aq 25°C 100% C H K1=3.8 B2=7.10 1994SKa (7670) 246
Medium: Dimethylacetamide. DH(K1)=21.3 kJ mol-1, DH(B2)=23.7
______
Zn++ cal non-ag 25°C 100% U H K1=4.06 B2=5.60 1991AIa (7671) 247
hexamethylphosphoric triamide solvent with 0.1 M (C4H9)4NClO4
DH andDS values also
-----
Zn++ cal non-aq 25°C 100% U HM B2=4.21 1990IMa (7672) 248
                          B3=5.86
                          B(Zn(bpy)L)=5.6
                          B(Zn(bpy)2L)=8.19
                          B(Zn(bpy)L2)=6.88
In DMF, 0.10 M Et4NClO4. DH(B2)=55, DH(B3)=69, DH(Zn(bpy)L)=3,
DH(Zn(bpy)2L)=-32, DH(Zn(bpy)L2)=50 kJ mol-1.
Zn++ ISE non-ag 25°C 100% C H K1=4.50 B2=11.19 1990PDa (7673) 249
                          K3=4.18
                          K4=2.69
Medium: MeCN, 0.1 M (PyH)CF3SO3; DH(K1)=12, DH(K2)=-5.2, DH(K3)=-14.7,
DH(K4)=0.0 kJ mol-1. In pyridine K1=2.45, DH(K1)=20.1
                      Zn++ cal non-aq 30°C 100% U H
                                    1988GKa (7674) 250
                          K3 = 3.49
Medium: CH3CN. DH(K3)=-12.7 kJ mol-1; DS(K3)=-25 J K-1 mol-1
______
Zn++ ix mixed 25°C 90% C I K1=3.97 B2=5.55 1986KUb (7675) 251
                          B3=7.71
Medium: 90% acetonee/H2O. in 80% acetone/H2O, K1=2.61, B2=4.14
Zn++ EMF non-aq 25°C 100% U I K1=0.8 B2=2.8 1985GSa (7676) 252
                          4.3
Medium: DMF. In DMSO; K1=0.12. Data also in DMSO/H2O & DMF/H2O mixtures.
Medium: 0.5 M NH4ClO4
-----
Zn++ ix non-aq 25°C 100% U I K1=2.36 B2=3.04 1984KUa (7677) 253
Medium: ethylene glycol
______
    ISE alc/w 25°C 100% U K1=2.81 B2=6.81 1983DSa (7678) 254
______
Zn++ ISE non-aq 25°C 100% C K1=2.11 1982SSd (7679) 255
Medium: dimethylacetamide
______
```

```
Zn++ ISE NaCl04 25°C 3.0M U I K1=-0.57 1979FKd (7680) 256
______
Zn++ ISE non-aq 25°C 100% U K1=1.70 B2=3.30 1979LTb (7681) 257
                           B3=5.42
                           B4=5.48
Medium: DMF. Method: Zn-electrode
______
Zn++ ISE NaCl04 25°C 3.00M U I M K1=-0.57 B2=-1.22 1978FKa (7682) 258
                           B3 = -1.80
                           B(ZnClI)=-0.24
                           B(ZnC13I) = -0.08
______
      ISE non-aq 25°C 100% C H K1=-0.70 B2=0.71 1976ABc (7683) 259
                           K3=0.15
Medium: Dimethylsulfoxide, 1.0 M NH4ClO4; DH(K1)=19.0, DH(K2)=29.4,
DH(K3)=12.7 \text{ kJ mol}-1
______
Zn++ ISE non-aq 25°C 100% C K1=-0.70 B2= 0.70 1976ABg (7684) 260
                          K3=1.15
Medium: 1 M NH4ClO4 in DMSO
Zn(Hg)-electrode
______
       ISE non-aq 25°C 100% U K1=0.70 B2=1.18 1973SLc (7685) 261
Medium: DMSO, 1 M LiClO4. Zn amalgam electrode
______
Zn++ vlt non-ag 25°C 100% U
                                      1972MAc (7686) 262
                          B4=18.4
Medium: MeCN, 0.1 M Et4NClO4
Zn++ dis non-aq 150°C 100% U T H K1=7.38 B2=14.58 1968ZAa (7687) 263
Medium: (Li, Na)NO3. DH(K1)=46.0 kJ mol-1, DH(K2)=46.0; K1=6.63, K2=6.43(165 C)
K1=5.93, K2=5.70(180 C); K1=5.04, K2=4.81(200 C) m units
______
Zn++ ISE NaClO4 25°C 4.0M U
                           K1=-0.47 B2=-2.00 1967MFb (7688) 264
                           K3=1.26
                           K4 = -0.51
Method:amalgam electrode. Medium:LiClO4. In 4M LiI: K(K+ZnI4)=-0.52,
K(K+ZnI3)=-1.1
------
Zn++ EMF oth/un 25°C 4.50M U H K1=-2.93 B2=-1.68 1956SLa (7689) 265
                           K3 = -0.07
                           K4 = -0.59
Method: Zn/Hg electrode. DH(K1)=0, DH(K2)=12 kJ m-1,DH(K3)=43.1,DH(K4)=-132;
DS(K1) = -56.1 \text{ J K} - 1 \text{ mol} - 1, DS(K2) = 64.4, DS(K3) = 143, DS(K4) = -454
______
       EMF NaClO4 25°C 3.0M U
                                     1944SLa (7690) 266
Zn++
Method: Zn/Hg electrode. K1, B2 and B3 all <-1.3
*****************************
              HL
                   Iodate
                             CAS 7782-68-5 (1257)
I03-
Iodate;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sol none 20°C 0.0 U T
                                 1974SUa (8453) 267
                       Kso(ZnL2(s)) = -5.45
at 20.2 C. Kso=-5.27(28.4 C), -5.13(40.6 C)
                   -----
  sol none 25°C 0.0 U
                                 1950SAa (8454) 268
                       Kso(ZnL2)=-5.41
*******************************
            H2L Sulfamate CAS 5329-14-6 (452)
Sulfamate;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaCl04 25°C 3.00M U I K1=0.85 B2=1.10 1978NFa (8796) 269
                       K3=0.1
**********************************
             L Ammonia CAS 7664-41-7 (414)
Ammonia
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl R4N.X 25°C 0.10M U
                                 1995KBb (8984) 270
                       K(ZnA+L)=2.08
                       K(ZnAL+L)=0.60
Medium: 0.1 M NH4NO3. H3A=NTA
-----
Zn++ gl NaNO3 25°C 0.10M A
                    М
                                1982SSa (8985) 271
                        K(ZnA+L) < 2.3
A=uridine-5'-triphosphate
Zn++ gl oth/un 25°C 0.10M U H K1=2.35 B2=4.80 1974DTa (8986) 272
                       B3=7.31
                        B4=9.46
DH(K1)=-10.7 kJ mol-1; DH(B2)=-23.8; DH(B3)=-40.1; DH(B4)=-61.9
Zn++ gl KNO3 25°C 1.0M U K1=2.136 B2=4.808 1972BPa (8987) 273
                       B3=7.114
                       B4=9.32
Zn++ gl R4N.X 30°C 2.0M U
                       K1=2.446 B2=4.73 1970BSb (8988) 274
                       K3 = 2.638
                       K4=2.111
Medium: 2M NH4NO3
-----
Zn++ sol NaClO4 25°C 1.0M U
                                 1968GSd (8989) 275
                        B4=10.84
                        B(ZnL(OH)3)=16.94
                        B(ZnL2(OH)2)=15.53
```

```
Zn++ ISE R4N.X 30°C 2.0M U
                         K1=2.32 B2=4.61 1966LMd (8990) 276
                          K3=2.36
                          K4=2.39
Medium: NH4NO3
Zn++ dis NaClO4 20°C 0.10M U
                                 1962BOa (8991) 277
                          B(Zn(OH)L)=9.23
                          B(Zn(OH)L2)=10.80
                          B(Zn(OH)L3)=12.00
                          B(Zn(OH)2L)=13.0
B(Zn(OH)2L2)=13.6, B(Zn(OH)3L)=14.5
                   Zn++ vlt none 25°C 0.0 U T H
                                1959POb (8992) 278
                          B4=9.40
I=0 corr. B4=9.83(15 C), 9.60(20 C), 9.19(30 C), 8.83(40 C).
DH(B4) = -70.5 \text{ kJ mol} -1; DS = -56.2
                   _____
Zn++ vlt none 20°C 0.0 U
                                   1958CPc (8993) 279
                          B4=10.49
I=0 corr., gelatin in solution. At 25 C, B5=12.75.
______
Zn++ gl R4N.X 25°C 10% U TIH K1=2.59 B2=4.91 1957TSa (8994) 280
                         K3 = 2.01
                          K4=1.70
Medium: NH4Cl, also 15% and 20%. In 25%: K1=2.31,K2=2.04,K3=1.76, K4=1.39
also 30,35 C.DH(B2)=-43 kJ mol-1,DH(B4)=-85. Really ZnCl4+2L=ZnCl2L2+2Cl etc
______
Zn++ cal R4N.X 25°C 25% U T H
                                   1957TSa (8995) 281
Medium: NH4NO3. DH(B4)=-88 kJ mol-1.
______
      cal R4N.X 27°C 2.0M U H
                                    1957YMa (8996) 282
Medium: NH4NO3. DH(K1)=-10.8 kJ mol-1, DS=8.8; DH(K2)=-13.0, DS=3.8;
DH(K3)=-16.3, DS=-6.3; DH(K4)=-21.8, DS=-31.4
_____
Zn++ gl R4N.X 30°C 2.0M U
                         B2=5.26 1954WOa (8997) 283
                         B4=9.52
Medium: NH4NO3.
______
Zn++ gl R4N.X 25°C 2.10M U T H B2=5.01 1953SPc (8998) 284
                          B4=9.80
Medium: NH4NO3. 10-40 C. DH(B2)=-28.0 kJ mol-1, DS=1.3; DH(B4)=-59.0, DS=-11
______
      cal R4N.X rt 3.0M U H
                                    1952FYa (8999) 285
Medium: NH4NO3. DH(B4)=-66.5 kJ mol-1; DS=-57.3 J K-1 mol-1
______
Zn++ ISE oth/un 18°C var U
                                    1951STa (9000) 286
                         B4=9.37
_____
Zn++ gl R4N.X 30°C 2.0M U TIH K1=2.37 B2=4.81 1941BJa (9001) 287
```

K3=2.50 K4=2.15

B4=9.46

```
Medium: NH4NO3. At I=0 corr.: K1=2.18, K2=2.25, K3=2.31, K4=1.96, B4=8.70
DH(B4) = -59 \text{ kJ mol} - 1
______
     oth oth/un 25°C var U
                      B2=4.85 1925WIa (9002) 288
Zn++
                      B4=9.01
Method: partial pressure of NH3
______
      ISE oth/un 21°C var U
                               1903EUa (9003) 289
                      B4=9.58
**********************************
               Hydroxylamine; CAS 5470-11-1 (1808)
            L
Hydroxylamine; NH2.OH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaNO3 20°C 0.50M U K1=0.5 1963SZa (9254) 290
-
-----
    vlt KCl 25°C 1.0M U K1=0.40 B2=1.01 1955NYa (9255) 291
**********************************
                Nitrite
NO2 -
            HL
                        CAS 7782-77-6 (635)
Nitrite:
     -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    ISE NaClO4 25°C 1.00M C K1=0.37 B2=0.49 1988EAa (9339) 292
______
Zn++ sp oth/un 25°C var U K1=0.15 B2=0.10 1971BId (9340) 293
Method: Raman spectra
NO3-
                Nitrate
                         CAS 7697-37-2 (288)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     cal NaNO3 25°C 1.00M U H
                              1975ARa (9489) 294
DH(K1)=-4.69 \text{ kJ mol}-1. DS = -18.0 \text{ J K}-1 \text{ mol}-1.
dis NaClO4 13°C 1.0M U T H K1=-0.68
                              1974MOc (9490) 295
Medium: HC104. K1=-0.76(25 C), -0.75(30 C), -0.81(35 C). DH(K1)=-9.0 kJ mol-1
______
      ISE NaClO4 25°C 4.0M U I
                            B2=-0.82 1973FRa (9491) 296
Zn++
                       K1=0.11
                      B3 = -0.60
                      B4 = -1.3
Method: Zn/Hg electrode.Medium:LiCl04. K1=-0.18(I=0.5). -0.20,B2=-0.64(I=1).
K1=-0.14, B2=-0.82, B3=-1.15(I=2). K1=0.42, B2=-0.27, B3=-1.5 (I=0 corr)
______
    kin NaClO4 25°C 1.0M U
                    K1 = -0.12
Zn++
                              1973HHb (9492) 297
```

```
Zn++ sol KNO3 25°C 1.70M U I
                                1957NMa (9493) 298
                       Kso(ZnL0.5(OH)1.5)=-7.3
In 3 M Na2SO4, 40 C: Kso=-7.1. Zn-OH complexes neglected ?
                        1950FHa (9494) 299
    sol oth/un 25°C var U
                       Kso(ZnL0.4(OH)1.6)=-13.64
**********************************
            L Hydrazine CAS 302-01-2 (2117)
Hydrazine; H2N.NH2
______
    Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ gl R4N.X 25°C 0.10M U M 1995KBb (10065) 300
                       K(ZnA+L)=1.93
                       K(ZnAL+L)=0.82
Medium: 0.1 M (NH3NH3)(NO3)2. H3A=NTA
______
Zn++ gl oth/un 30°C 1.00M U
                       K1=3.78 B2=6.90 1977AGd (10066) 301
                      K3 = 2.38
______
Zn++ gl NaCl04 30°C 1.0M U K1=3.69 B2=6.69 1967BSb (10067) 302
Zn++ gl oth/un 20°C 0.50M U
                       K1=2.4 B2=4.2 1952SZa (10068) 303
                       K3=1.3
                       K4=0.8 ?
Medium: N2H5BF4
*********************************
            HL Azide
                         CAS 7782-79-8 (441)
N3-
Azide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     cal oth/un 25°C 0.05M C H
                                1981ABd (10152) 304
Medium: NaN3. DH(K1)=15.39 kJ mol-1, DS(K1)=79.2 J K-1 mol-1.
______
                            1978YOa (10153) 305
   sp NaClO4 25°C 1.0M C K1=1.7
______
                       K1=1.44 B2=1.14 1976DMa (10154) 306
    ISE none 25°C 0.0 M
-----
Zn++ ISE NaClO4 25°C 1.00M C H K1=0.76 B2=1.32 1975AAb (10155) 307
                       B3=2.16
                       B4=2.45
DH(K1)=2.57, DH(K2)=2.3; DH(K3)=7.6; DH(K4)=-6.5 kJ mol-1
______
Zn++ ISE NaClO4 25°C 2.0M U K1=0.78 B2=1.34 1970NAa (10156) 308
                       B3=2.34
                       B4=2.89
-----
    vlt NaClO4 25°C 2.0M U K1=0.5 B2=1.19 1962BSc (10157) 309
Zn++
```

OH- Hydroxide;			HL	Hyd	roxide	(57)	
Metal	Mtd	Medium	Temp	Conc	Cal Flag	gs Lg K values	Reference ExptNo
Zn++	sol	oth/un	25°C	0.0	СТ	Ks1=-2.407 Ks2=-7.851 Ks3=-16.948	2002BPb (10625) 310
				-		in acidic and al 3, Ks2=-5.982, Ks	
Zn++	sol	oth/un	25°C	0.0	СТ	*K1=-8.77 *K2=-10.26 *K3=-9.10	2002BPb (10626) 311
Method: H2 media. Data				-		cite (ZnO) in aci to 25 C.	dic and alkaline
 Zn++	gl	NaCl	37°C	0.15M		*B2=-15.33	2002HTc (10627) 312
 Zn++	gl	KCl	25°C	0.10M		K1=3.53 B(ZnH2L2)=19.72 B(ZnH-1L)=-3.90	2002PLb (10628) 313
Zn++	gl	KCl	25°C	0.10M	C	*B2=-16.55 *B4=-39.71	2002PLb (10629) 314
Zn++	gl	NaClO4	25°C	0.10M	U	*K1=-7.89 *B2=-14.92	2001PSb (10630) 315
 Zn++	gl	NaNO3	25°C	0.10M	C	*K1=-7.89 *B2=-14.92	2000MSa (10631) 316
	lubi:	lity of	ZnO ((zinci [.]	te) in 0	Ks(ZnO+H=ZnOH)= Ks(ZnO+H2O=Zn(O Ks(ZnO+2H2O=Zn(0.03 m sodium tri 7H2 electrode and	H)2)=-6.68 OH)3+H)=-16.95 flate and 0.03 m
 Zn++	sol	oth/un	25°C	0.0	C	*K1=-8.75 *K2=-9.10 *K3=-10.27	1999BPa (10633) 318

	olubility of ZnO (zincite) in 0.03 n 25-300 C. Analysis by Pt/H2 electroo	
Zn++		1999PGa (10634) 319 7.89 14.80
Zn++		1999PPa (10635) 320 7.89 14.92
Zn++		1998MSe (10636) 321 7.89 14.92
Data for 6	sol oth/un 25°C 0.10M C IH *Kso 0.03-1.0 m sodium triflate and 50-29 86.7 kJ mol-1, DS(*Kso)=-77 J K-1 n	
	*B2=	1997MGb (10638) 323 =-9.44 =-16.42
Mealum: 50	% v/v EtOH/H2O, 0.2 M NaNO3.	
Zn++	gl NaClO4 30°C 0.10M C K1=	=7.22 1995STa (10639) 324
	gl NaClO4 25°C 0.10M M M K(Zr D-Tetraazacyclododecane	1994KTa (10640) 325 nA+L)=6.00
7n++	kin NaClO4 25°C 0.10M M M	 1992KKb (10641) 326
		nA+L)=6.4
		1991MCb (10642) 327 7.15 16.42
Zn++		1991MGb (10643) 328 7.84 14.87
		1989MSi (10644) 329 7.44 16.42
		-12 22 1000FC (1064F) 220
∠n++	EMF NaCl04 25°C 3.00M U B2=	=12.22 1988FSa (10645) 330

B4=15.40

		1 25°C 3.00M C	1987FGa (10646) 331 B4=15.10
Zn++	gl NaCl	37°C 0.15M C	1987HBb (10647) 332 *K1=-8.378
		v 30°C 50% C	1987MSd (10648) 333 *K1=-7.44 *B2=-16.42
Medium: 50	% v/v dioxa	ane/H2O, 0.2 M NaNO3	3.
		25°C 0.0 M I	K(ZnA(OH)+H)=9.07
A = trien	1,8-diamir 	no-3,6-diazaoctane)	. In D2O K=-9.74
		25°C 0.0 M I	1985DHa (10650) 335 K(ZnA(OH)+H)=10.30
A = 2,3,2	tet. In D20		
	J	25°C 0.0 M I	K(ZnA(OH)+H)=10.59
A = Tren ([2,2'2"-nitr	ilotri(ethylamine)). In D2O, K=-11.21
Zn++	oth none	25°C 0.0 U	K1=5.04 B2=11.1 1983RCa (10652) 337 B3=13.6 B4=14.8
Recalculat	ion of lite	erature data	
			K1=6.72 B2=11.52 1983YYa (10653) 338 B3=14.04 B4=16.30
Method: po	olarography. 		
Zn++	gl KNO3	25°C 0.10M U M	1979GMa (10654) 339 *K(Zn(EDDA))=-10.56
Zn++	gl NaClO4	1 25°C 3.00M U T	1978BYa (10655) 340 *K1=-10.4 *B(2,1)=-8.72
Zn++	sp KNO3	25°C 0.10M U I	K1=6.19 B2=10.90 1978NAa (10656) 341 *K1=-7.85
Zn++	gl NaClO4	1 60°C 3.00M U	1977BGb (10657) 342 *K1=-9.5 *B(2,1)=-7.62
Zn++	gl NaClO4	↓ 37°C 0.15M C	1976MTa (10658) 343

```
sol none 100°C 0.0 U T
                                         1975KEa (10659) 344
                             *Ks(ZnO(s)+H)=3.19
                             K(ZnO+2H2O+2OH=Zn(OH)4+2H)=-2
                             K(ZnO+2H2O+OH=Zn(OH)3+2H)=-3.0
                       -----
     sol oth/un 25°C ? U T
                              K1=6.16 B2=11.18 1975RMb (10660) 345
                             B3=13.88,
                                       B4=15.57
                             K(Zn(OH)2(s)+OH=Zn(OH)3)=-2.88
                             K(Zn(OH)2(s)+2OH=Zn(OH)4)=-1.9
At 12.5 C: Kso(Zn(OH)2)=-16.8. Data up to 75 C
Zn++ gl NaClO4 25°C 3.00M U
                                        1975ZGa (10661) 346
                             *B(4,4)=-26.0
                             *B(2,1)=-8.6
-----
     gl NaCl 25°C 0.70M U
                                         1974JAb (10662) 347
                             *K1=-9.60
                             *B(1,3)=-27.6
Medium: seawater
     vlt none 20°C 0.00 U B2=9.86 1973BRd (10663) 348
______
Zn++ ISE none 25°C 0.00 U
                                         1972DSb (10664) 349
                             Kso(Zn(OH)2(s)=Zn+2OH)=-16.42
Zn(OH)2=epsilon-Zn(OH)2. Method: emf with Zn amalgam electrode
-----
Zn++ oth NaCl 20°C 0.15M U
                                         1971PPd (10665) 350
                             *Ks=8.2
                             Ks(Zn(OH)2+2OH=Zn(OH)4)=-28.6
*Ks: Zn(OH)2(s)+2H=Zn+2H2O. Method: tyndallometry
Zn++ gl KNO3 37°C 0.15M U
                                         1970CHc (10666) 351
                             *K1 = -9.03
_____
Zn++ gl oth/un 40°C U T H
                                         1969NIa (10667) 352
                             *K1=-9.6
                             *B(2,1)=-8.0
Medium: Zn(NO3)2. DH(*K1)=71.7 kJ mol-1. At 50 C, *K1=-9.4, *B(2,1)=-7.9.
60 C, *K1=-8.7, *B(2,1)=-7.8. 70 C, *K1=-8.6, *B(2,1)=-7.6
                 Zn++ gl oth/un 80°C U T
                                        1969NIa (10668) 353
                             *K1=-8.3
                             *B(2,1)=-7.4
Medium: Zn(NO3)2.90 C, *K1=-7.9, *B(2,1)=-7.1
       sol NaClO4 25°C 1.00M U
                                        1968GSd (10669) 354
                             Kso=-16.76
```

```
Zn++ ISE none 25°C 0.0 M
                                     1968SMf (10670) 355
                          Kso(Zn(OH)2(H2O)0.1)=-17.33
-----
     sol NaClO4 25°C 1.00M U
                           K1=6.31 B2=11.19 1967GSd (10671) 356
                          B3=14.31
                          B4=17.70
                          Kso = -16.76
______
Zn++ gl NaCl 25°C 3.00M U I
                                    1965SCc (10672) 357
                          *K1 = -9.25
                          *B(2,1)=-7.50
In 3 M KCl: *K1=-9.26, *B(2,1)=-7.47, *B(4,2)=-13.32 ?
Zn++ dis NaCl04 25°C 3.00M U
                                    1965SEb (10673) 358
                          *B2=-20.10
                          *B3=-28.83
                          *B4=-38.72
Zn++ oth KNO3 25°C 0.20M U I
                                     1964SAa (10674) 359
                          *Kso=12.48(amorphous)
                          *Kso=11.80(beta 2)
                          *Kso=11.85(delta)
                          *Kso=11.34(active ZnO)
*Kso=11.17(inactive ZnO) plus other forms, and corrected to I=0
-----
Zn++ gl KCl 25°C 2.00M U I
                                     1964SCb (10675) 360
                          *K1=-9.01
                          *B(2,1)=-7.20
In 2 M NaCl: *K1=-9.11, *B(2,1)=-7.49
------
    oth NaCl 25°C 3.00M U
Zn++
                                    1964SCb (10676) 361
                          B4=13.35
                          B(2,6)=26.77
-----
                          1963PEa (10677) 362
Zn++ sol KNO3 25°C 0.20M U
                          *Kso=11.72 (epsilon-Zn(OH)2)
*Kso: Zn(OH)2(s)+2H=Zn+2H2O
                      -----
_____
Zn++ sol NaClO4 25°C 0.20M U
                                     1963SAa (10678) 363
                          *Kso=11.39 to 11.55 (ZnO)
                          *Kso=11.97o(beta-Zn(OH)2)
                          *Kso=11.95 (gamma-Zn(OH)2)
                           *Kso=11.75 (epsilon-Zn(OH)2)
*Kso: ZnO(s)+2H=Zn+H2O; *Kso: Zn(OH)2(s)+2H=Zn+2H2O
______
    dis NaClO4 20°C 0.10M U
Zn++
                                     1962BOa (10679) 364
                          B3=13.58
Method: also glass electrode
-----
    cal NaClO4 25°C 7.0M U
Zn++
                                     1962LGa (10680) 365
```

```
Medium: 7 M NaClO4, 0.88 M HClO4; DH(*Kso(Zn(OH)2(s))=-75.3 kJ mol-1
______
Zn++ gl none 25°C 0.0 U T
                                      1962PEb (10681) 366
                           *K1=-8.96
*K1=-9.30(15 C), -9.15(20 C), -8.79(30 C), -8.62(36 C), -8.46(42 C);
Zn++ gl KNO3 25°C 0.20M U I
                                      1962SAc (10682) 367
                           *Kso(Zn(OH)2+2H)=-11.75
                           Kso(Zn(OH)2(s))=-15.65
Epsilon-Zn(OH)2. At I=0 Kso=-16.5
Zn++ gl KCl 25°C 2.0M U I
                                      1961SCa (10683) 368
                           *K1=-9.02
                           *B(2,1)=-7.18
Mixed Cl,OH complexes. In 2 M NaCl *K1=-9.14, K(2Zn+H2O=Zn2OH+H)=-7.47
        -----
Zn++ gl NaClO4 25°C 2.0M U
                                      1961SCa (10684) 369
                           *B2=-9.55
                           B(Zn+C1=Zn(OH)2C1+2H)=-9.14
                           B(Zn+2C1=Zn(OH)2C12+2H)=-8.97
                           B(Zn+3C1=Zn(OH)2C13+2H)=-8.83
Zn++ gl none 25°C 0.0 U
                                      1960BBa (10685) 370
                          Kso=-17.05 (ZnO,zincite)
Kso: ZnO(s)+H2O=Zn+2OH
______
Zn++ gl none 25°C 0.0 U
                                      1960DFa (10686) 371
                          *K1 = -9.05
                           B2=12.89 1959ASa (10687) 372
Zn++ sol oth/un 18°C dil U
                          K(Zn(OH)2(s)=Zn(OH)2)=-4.51
Zn++ gl none ? 0.0 U
                                      1959BEa (10688) 373
                          *K1=-9.29
______
Zn++
      vlt KCl 25°C 2.0M U
                                      1959MAc (10689) 374
                          B4=15.3
Zn++ gl none 25°C 0.0 U
                                      1958ACa (10690) 375
                           *K1 = -9.36
_____
Zn++ gl none 25°C 0.0 U
                                      1958ASd (10691) 376
                           Kso(Zn(OH)2)=-17.4
_____
Zn++
      vlt oth/un 24°C var U
                                      1958COb (10692) 377
                           Kso=-15.5 (Zn(OH)2 amorphous)
                           Kso=-16.5 (ZnO)
Kso: Zn(OH)2(s)=Zn+2OH and ZnO(s)+H2O=Zn+2OH
-----
Zn++ ISE none 25°C 0.0 U
                                      1954DIa (10693) 378
```

Zn++	gl n	one	75°C	0.0	U	Kso(Zn(OH)2)=-17	1954DOa	(10694)	379
Zn++	sol n	one	25°C	0.0	U	K(Zn(OH)2(s)+OH) K(Zn(OH)2(s)+2OH		(10695)	380
Zn++	sol n	one	25°C	0.0	U	K(Zn(OH)2(s)+OH) K(Zn(OH)2(s)+2OH			381
Zn++ K(Zn(OH)2(one)=-1.6		0.0	U	Kso(Zn(OH)2)=-17 B3=14.23 K4=1.26 K(Zn(OH)2(s)+OH)		(10697)	382
Zn++ DH(*Kso(Zn							1953SLa	(10698)	383
•	O(s)+2		8.7 k	J M-1((in HClO	1), -66.0(HCl), - NO3), -58(HCl), -	•	·),-87.6((HI)
Zn++	gl o	th/un	?	var	U	K1=5.7 Kso(Zn(OH)2)=-16	1953SPd .4	(10700)	385
Zn++	vlt o	th/un	18°C	var	U	B3=15.5 *Kso=-17.19	1953VTa	(10701)	386
Zn++	gl K	C1	30°C 6	0.10M	U	*K1=-8.7	1952CCa	(10702)	387
Zn++	sp o	th/un	25°C	var	U	K1=4.40	1951DAa	(10703)	388
Zn++	ISE o	th/un	18°C	var	U	B4=14.47	1951STa	(10704)	389
Zn++ Method: H						Kso(Zn(OH)2)=-16	1950AFa .71	(10705)	390
Zn++	ISE o	 th/un	20°C	var	U	B3=16.08 B4=15.04	1950BQa	(10706)	391
-	- -	· - -				· = = = 	-		

Zn++	vlt	oth/un	0°C	var	U	Т	B3=16.84 K4=0.07	1949KKa	(10707)	392
B3=15.86,	K4=0	.09(20	C); B3=	=15.4	5,	K4=0.				
Zn++	gl	oth/un	16°C	var	U		K1=3.80 *K1=-10.48	1940BCa	(10708)	393
Zn++	vlt	oth/un	18°C	var	U		B4=16.89	1940SFa	(10709)	394
Zn++	gl	none	25°C	0.0	U		*K1=-10.19 Kso(Zn(OH)2(s)):		(10710)	395
Zn++	gl	none	25°C	0.0	U		Kso(Zn(OH)2(s))		(10711)	396
Zn++	dis	oth/un	20°C	var	U		K1=5.77	1933JEa	(10712)	397
Zn++	EMF	none	25°C	0.0	U		K1=4.36 *K1=-9.66 Kso(Zn(OH)2(s)):	1931KKa =-18 to-1		398
Zn++	EMF	none	25°C	0.0	U		*K1=-9.82 *Kso(Zn(OH)2(s) Kso(Zn(OH)2(s)):	+2H)=10.6	(10714) 52	399
Zn++	sol	none	25°C	0.0	U		Kso(Zn(OH)2(s)): B4=15.44		(10715)	400
Zn++	sol	oth/un	25°C	var	U		Kso(Zn(OH)2(s))		(10716)	401
Zn++	vlt	oth/un	18°C	var			Kso(Zn(OH)2(s)): B3=14.36?	=-16.0	(10717)	402
Zn++	kin	oth/un	100°C	0.02						403
Zn++	sol	oth/un	?	var	U		K(Zn(OH)2(s)+20		(10719) 4)=-1.0	404
Zn++	EMF	oth/un	25°C	var	U		K1=8.84 *K1=-5.08	1910WOa	(10720)	405
Zn++	ISE	oth/un	?18	var	U			1904KUa	(10721)	406

```
1900HEa (10722) 407
      sol oth/un rt var U
                         Kso(Zn(OH)2)=-13.15
*********************************
              H2L
                            CAS 13537-32-1 (6520)
Monofluorophosphate;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 37°C 0.10M C K1=2.86 1991CCa (12772) 408
********************************
P04---
                  Phosphate
                            CAS 7664-38-2 (176)
              H3L
Phosphate;
         Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M M
                                    1996SSa (12976) 409
                        K(Zn+HL)=2.52
Zn++ vlt oth/un ? var C
                                    1995VPa (12977) 410
                          K1eff=4.16
                          B2eff=7.36
pH=7.9 of Pisuerga river water. Ionic strength ranged from 0.01 M to 0.75M.
Method: Anodic Stripping Voltammetry.
______
      EMF none 25°C 0 M I
Zn++
                                    1994IUb (12978) 411
                          K(Zn+H2PO4)=0.9
                          K(Zn+2H2PO4)=2.0
                          K(Zn+HPO4+H2PO4)=4.0
                          K(Zn+2HPO4)=7.1
Method: Zn/Hg electrode. K(Zn+PO4+HPO4)=12.5. In 3 M NaClO4:K(Zn+H2PO4)=0.37
K(Zn+2H2PO4)=1.10, K(Zn+2H2PO4=ZnH3(PO4)2+H)=-3.8, K(..+2H)=-7.11, (+3H)=-12.87
-----
Zn++ sol oth/un 25°C var C TIH
                                    1992ZJa (12979) 412
                          K(ZnO(s)+HPO4)=-5.82
                          K'(NaZnPO4(s)+HPO4)=-12.91
                          K(Zn(OH)2+HPO4)=0.91
                          K(Zn(OH)3+H2PO4)=5.37
Medium: 0.0005-0.05 m phosphate. Data for 17-287 C. *K3=-10.14, *K4=-12.02.
K:ZnO+H2O+HPO4=Zn(OH)2(HPO4), K':NaZnPO4+2H2O+HPO4=Na+Zn(OH)2(HPO4)+H2PO4.
______
Zn++
      gl NaNO3 25°C 0.10M C
                                    1981BKb (12980) 413
                         K(Zn+HPO4)=2.4
-----
       gl NaClO4 25°C 0.10M U M K1=2.40
                                 1974RMa (12981) 414
Zn++
Mixed complexes with cysteine, citrate and NTA
______
Zn++ gl NaClO4 25°C 0.10M U
                                    1974RMb (12982) 415
                          K(Zn+HL)=2.40
```

K(ZnFulvate+HL)=5.20 K(Zn+Fulvate+HL)=6.90

```
______
           25°C 0.0 U
     sol none
                                1973NRa (12983) 416
Kso(Zn3L2(H2O)4)=-35.29(alpha-hopeite)
Zn++ gl KNO3 37°C 0.15M U
                                1970CHc (12984) 417
                       K(Zn+H2L)=1.2
                       K(Zn+HL)=2.4
                       K(ZnH2L+HL)=3.0
                       K(2ZnHL=(ZnHL)2)=3.7
______
    gl NaClO4 25°C 0.10M U I M
                                1967SBc (12985) 418
Zn++
                       K(Zn+HL)=2.4
In 10% dioxan, 0.1 M NaClO4: K(Zn+HL)=2.4, K(Zn+bpy+HL)=2.4
-----
     sol oth/un 19°C var U
                               1951ZHa (12986) 419
                      Kso(Zn3L2) = -32.04
********************************
PW11039----
                          (2467)
alpha-Heteromonophospho-polytungstate;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 1.00M U K1=5.39 1984COa (13395) 420
*************************
            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
-----
                       K1=4.09 B2= 4.81 1979DHa (13512) 421
Zn++ gl R4N.X 25°C 0.50M C
                       K(Zn+HL=ZnL+H)=-4.30
                       K(Zn+2HL=ZnL2+2H)=-12.10
                       K(ZnL+HL=ZnL2+H)=-7.7
Medium: 0.50 M Me4NCl. Kso(Zn2P2O7.3H2O)=-15.6.
______
    kin R4N.X 30°C 0.10M U K1=9.11 1978KHa (13513) 422
-----
     sol NaNO3 18°C 0.50M U I B2=5.40 1973VMa (13514) 423
B2=4.80(I=0.75), 4.29(I=1), 6.48(I=0 corr)
______
     vlt NaNO3 25°C 1.0M U K1=5.1 B2=7.19 1968CFd (13515) 424
Zn++
Zn/Hg electrode also used
-----
      ISE NaCl04 25°C 1.0M U I K1=10.52 1967MNe (13516) 425
Method: Zn/Hg electrode. K1=11.66(I=0.1), 12.80(I=0) and intermediate values
______
                      K1=8.7
Zn++ gl none 25°C 0.0 U T
                             B2=11.0 1959WOa (13517) 426
                       B(Zn(OH)L)=13.1
```

```
Additional by Zn electrode. At 40 C: K1=9.2, B2=10.8, B(Zn(OH)L)=13.3
-----
      sol oth/un 25°C var U K1=6.10 B2=7.09 1958PTa (13518) 427
Medium: Na4L
______
Zn++ ISE oth/un 42°C var U B2=6.5
                             1958VRb (13519) 428
_____
     cal oth/un 25°C var U H
                               1956YVb (13520) 429
DH(B2)=11.0 kJ mol-1, DS=161 J K-1 mol-1
Zn++ ISE oth/un 18°C var U B2=7.24
                             1951STa (13521) 430
-----
Zn++ con oth/un 35°C var U B2=6.50 1950HAa (13522) 431
Zn++ vlt oth/un ? var U K1=6.45 1932SAa (13523) 432
**********************************
                          CAS 13825-81-5 (2402)
Peroxodiphosphate, also cyclic metaposphates, thiophosphates etc.;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     ix NaClO4 20°C 0.23M U
                                1974KOa (13683) 433
Ligand:metaphosphates, cyclic, (PO3)n n-, K1=2.86(n=4), 3.95(n=6), 5.02(n=8)
*************************
            Polytungstate (2102)
alpha-Heterodiphospho-polytungstate (usually alpha1 isomer)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     gl NaNO3 25°C 1.00M U K1=7.30 1984COa (13703) 434 K1=5.89 (alpha2 isomer)
********************************
P3010----
                          CAS 10380-08-2 (1001)
Tripolyphosphate; from (HO)2PO.O.PO(OH).O.PO(OH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ kin oth/un 30°C 0.10M U K1=8.90 1978KHa (13788) 435
______
Zn++ gl KNO3 25°C 0.10M U T H K1=6.83
                                1973TRa (13789) 436
                       K(Zn+HL)=3.75
At 2 C: K1=7.43, K(Zn+HL)=4.05; 35 C: K1=7.40,K=4.14; 45 C: K1=6.72
DH(K1)=-18.4, DH(Zn+HL)=-5.9 kJ mol-1 (25C)
______
Zn++ gl KNO3 45°C 0.10M U
                        K1=6.71 B2=7.31 1971TRa (13790) 437
                       K(Zn+HL)=3.73
                       K(ZnL+HL)=1.5
                       K(ZnL2+H)=9.03
                     -----
Zn++ gl R4N.X 20°C 0.10M U H K1=8.35 1965ANa (13791) 438
```

Metal	Mtd	Medium	Temp	Conc	Cal Fla	gs Lg K values	Reference ExptNo
P8024 Cyclooctar			H8L	*****	*****	(232)	*********
Zn++							1974KOa (14066) 445
Metal	Mtd	Medium	Temp	Conc	Cal Fla	gs Lg K values	Reference ExptNo
P6018 Cyclohexar			H6L			(233)	
Zn++		oth/un				K1=8.75	1978KHa (14035) 444 *********
Metal	Mtd	Medium	Temp	Conc	cal Fla	gs Lg K values	Reference ExptNo
	**** 	*****	****	*****	*****		1974KOa (13985) 443 ***********
							Reference ExptNo
	****	*****	***** H4L		*****		*******
Zn++							1974KOa (13933) 442
				Conc	 Cal Ela	as La V values	Reference ExptNo
P309 Cyclotrime			H3L				6-25-1 (235)
Method: a	lso Z	n elect	rode.	At 40	C: K1=	B(Zn(OH)L)=13 9.7, B(Zn(OH)L)=	
Zn++	gl 	NaNO3	25°C	0.10M	U 	K1=6.9 K(ZnL+H)=5.3	1963JWa (13793) 440
Zn++	gl	KC1	25°C	0.10M	U 	K1=7.62 K(Zn+HL)=3.92 K(ZnL+H)=4.36	
Medium: Me	≘4NNO 	3. By c	alorin	metry:	DH(K1)	K(Zn+HL)=5.13 K(ZnL+H)=5.6 =26.4 kJ mol-1,	DS=250 J K-1 mol-1

```
S--
            H2L Sulfide CAS 7783-06-4 (705)
Sulfide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ vlt oth/un 25°C 0.72M C
                                         1999AVb (14210) 447
                             K(Zn+HL)=6.1
                             K(Zn+2HL)=10.2
Method: determination of Zn by cathodic stripping voltammetry using oxine
as competitive ligand. Medium: seawater, pH 8.0, S=35.
as competitive ligand. Medium: seawater, pH 8.0, S=35.
       vlt NaClO4 24°C 0.50M C I K1=8.31 1999CRb (14211) 448
Ligand is S5--. Method: polarography. Also data for 0.55 M NaCl.
______
Zn++ vlt oth/un 25°C 0.70M C I
                                        1996LRb (14212) 449
                             K(Zn+HS+OH=ZnS)=11.74
                             K(2Zn+3HS+3OH=Zn2S3)=41.09
Method: by voltammetry at Hg/HgS electrode
Zn++ vlt NaCl 25°C ? U
                                        1994ZMa (14213) 450
                             K1eff=6.0
                             K2eff=7.7
Medium: sea water, pH=8. Method: cathodic stripping square wave voltammetry
______
Zn++ sol oth/un 25°C var U I
                                         1993DHa (14214) 451
                             K(ZnS(s)+H2S=Zn+2HS)=-18.47
                             K(ZnS(s)+H2S=Zn(HS)2)=-5.65
                             K(ZnS(s)+2HS=ZnS(HS)2)=-5.33
                             K(ZnS(s)+H2S+2HS=Zn(HS)4)=-3.8
K(ZnS(s)+HS=ZnS(HS))=-4.64. Constants valid at infinite dilution
Zn++ oth none ? 0 U
                                         1990DKa (14215) 452
                             *Ks(ZnS+H=Zn+HS)=-10.9 (alpha)
                             *Ks(ZnS+H=Zn+HS)=-8.95 (beta)
Alpha is sphalerite; beta is wurtzite. Recalculation of literature data.
______
Zn++ sol oth/un 25°C 0.10M U TI
                                         1990HSc (14216) 453
                             Ks(ZnS+H2S)=-5.3
                             Ks(ZnS+H2S+HS)=-3.3
                             Ks(ZnS+H2S+2HS)=-3.4
                             Ks(ZnS+H20+HS-)=-4.4
Ks(ZnS+H2O+2HS)=-4.9 (sphalerite). 25-240 C. Constants valid at I=0
______
Zn++ oth none 25°C 0.0 C
                                         1989DYa (14217) 454
                             KZn+HS=ZnS+H)=4.9
                             *Kso(ZnS)=-9.6
                             Kso(ZnS)=-4.7
Calculated from literature data, based on K(H+S)=17.0. ZnS is wurtzite.
For sphalerite, *Kso(ZnS)=-11.8, Kso(ZnS)=-6.9.
______
```

```
Zn++ oth none 25°C 0 U
                                         1988LIa (14218) 455
                              Kso(ZnS,sphalerite)=-28.9
                              *Kso(ZnS,sphalerite)=-11.5
                              Kso(ZnS,wurtzite)=-26.1
                              *Kso(ZnS,wurtzite)=-8.7
Derived from thermodynamic data and K(H+S=HS)=17.3.
______
Zn++ oth none 25°C 0 U
                                         1988SBc (14219) 456
                              Kso(ZnS,wurtzite)=-28.21
                              Kso(ZnS, sphalerite) = -30.32
Method: recalc. from literature data using K(H+S=HS)=18.57 and K(H+HS)=6.99
______
Zn++ sol oth/un 100°C var M TIH
                                         1987BBe (14220) 457
                              K(Zn+2HS)=12.3
                              K(Zn+3HS)=14.2
                              K(Zn+4HS)=13.0
                              K(Zn+OH+HS)=16.7
Sphalerite (ZnS) solubility in 0-4.0 m NaHS-H2S solution. Data 100-350 C.
DH(Zn+2HS)=-5.0 \text{ kJ m-1}, DH(Zn+3HS)=-4.2, DH(Zn+4HS)=1.7, DH(Zn+0H+HS)=-14.2
______
Zn++ sol oth/un 100°C var M TI
                                         1987BBe (14221) 458
                              K(ZnS(s)+H2O=Zn(OH)HS)=-6.4
                              K(ZnS(s)+H2S=Zn(HS)2)=-5.2
                              K(ZnS(s)+H2S+HS=Zn(HS)3)=-3.3
                              K(ZnS(s)+H2S+2HS=Zn(HS)4)=-4.6
Sphalerite (ZnS) solubility in 0-4.0 m NaHS-H2S solution. Data 100-350 C.
______
     ISE NaCl 24°C 0.10M M
Zn++
                                         1987PFb (14222) 459
                              Kso(alpha-ZnS)=-24.1
Method: pH2S measured with Ag2S electrode. K(H+S=HS)=13.9 and K(H+HS=H2S)=
6.92 assumed
______
Zn++ dis oth/un 25°C 0.69M U
                                         1985DYa (14223) 460
                             K(Zn+2H2S=ZnHS2+3H)=-5.55
                             K(Zn+2H2S=Zn(HS)2+2H)=0.72
______
Zn++ vlt oth/un 25°C var U
                                        1970CLa (14224) 461
                             Kso = -21.4
------
Zn++ oth none 50°C 0.0 M T
                                         1969HEa (14225) 462
Estimated from literature data. Sphalerite: Kso=-24.44(50 C); -22.48(100 C);
-19.81(200 C); -18.17(300 C). Wurzite: -22.58(50 C); -20.96(100 C); -17.39(300)
______
Zn++ sol NaClO4 25°C 1.0M U
                                         1967GSc (14226) 463
                              K(ZnS(s)+H20=Zn(HS)OH)=-5.87
                              Kso = -24.37
                              K(Zn+OH+HS)=19.02
Zn++ oth none 25°C 0.0 U
                                         1964PCa (14227) 464
                             K(ZnL(s)+2H=Zn+H2S(g))=-0.82
```

```
From thermodynamic data. ZnL=wurtzite. Alternative values K=-2.69, 2.0
-----
       sol oth/un 100°C 1.60M U
                                           1960BAa (14228) 465
                              K(ZnS(s)+HS=ZnHS2)=-3.0
Medium: NaOH. 25-195 C
       oth none 25°C 0.0 U T
                                          1959CZa (14229) 466
Zn++
                              Kso(ZnL) = -23.82
From thermodynamic data. Kso=-20.92(100 C), -18.48(200 C), -15.82(400 C),
-14.34(600 C)
Zn++ oth none 25°C 0.0 U
                                          1952GGc (14230) 467
                              Kso(ZnL,sphalerite)=-24.10
From thermodynamic data
_____
Zn++ oth none 25°C 0.0 U
                                           1952LAb (14231) 468
                               Kso(ZnL,sphalerite)=-25.15
                              Kso(ZnL, wurtzite)=-22.80
From thermodynamic data
______
Zn++ sol none 25°C 0.0 U
                                           1936RAa (14232) 469
                               Kso(ZnL) = -25.94
                              K(ZnL(s)+2H=Zn+H2S(g))=-3.02
From thermodynamic data Kso(ZnL)=-22.2
______
     sol oth/un 18°C var U
                                           1931KOa (14233) 470
                               Kso(ZnL) = -25.10
                               K(ZnL(s)+2H=Zn+H2S(g))=-2.14
Alternative values: Kso=-25.3(sphalerite), K=-2.35; Kso=-23.96(wurtzite),
K=-1.0. By solubility, 1 M H2SO4: Kso=-25.16, K=2.2(sphalerite)
______
     sol oth/un 25°C var U
                                           1907GLa (14234) 471
                               K(ZnL(s)+2H=Zn+H2S(g))=-2.67
ZnS=sphalerite. K=-1.35(wurtzite)
*********************************
                     Thiocyanate CAS 463-56-9 (106)
SCN-
                 HL
Thiocyanate;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                         Reference ExptNo
_____
       EMF non-aq 25°C 100% C HM
Zn++
                                           2001KTa (14584) 472
                               B(Zn(phen)SCN)=9.4
                               B(Zn(phen)(SCN)2)=12.5
                               B(Zn(phen)2(SCN)2)=15.6
Medium: DMF, 0.40 M Et4NClO4. Method: Zn/Hg electrode. By calorimetry,
DH(Zn(phen)SCN)=-24, DH(Zn(phen)(SCN)2)=-25, DH(Zn(phen)2(SCN)2)=-70
     gl NaClO4 25°C 0.10M M
Zn++
                                           1994KTa (14585) 473
                               K(ZnA+L)=2.2
A:1,4,7,10-Tetraazacyclododecane. By kinetic methods, K=1.8
```

```
Zn++ kin NaClO4 25°C 0.10M M M
                                   1992KKb (14586) 474
                       K(ZnA+L)=2.4
A:1,5,9-triazacyclododecane
______
Zn++ cal non-aq 25°C 100% U HM T K1=3.33 1990IMa (14587) 475
                          B3=10.23
                          B(Zn(bpy)L)=7.3
                          B(Zn(bpy)2L)=9.8
                          B(Zn(bpy)L2)=10.6
In DMF, 0.1 M Et4NClO4. B4=13.31, B(Zn(bpy)2L2)=12.3. DH(K1)=4.9, DH(B3)=9.5
DH(B4)=-7.9, DH(Zn(bpy)L)=-13.0, DH(Zn(bpy)2L)=-42.9, DH(Zn(bpy)L2)=-17.5
______
Zn++ ISE NaCl04 25°C 1.0M C K1=0.72 B2= 1.86 1989LWe (14588) 476 Method: SCN ion-selective electrode.
-----
Zn++ ISE alc/w 25°C 100% U T K1=4.31 B2=7 1987DWb (14589) 477
Medium: MeOH, 0.05 M NaClO4
______
Zn++ cal NaCl04 25°C 5.00M U H T K1=0.917 B2=1.590 1985IYa (14590) 478
                          B3=2.167
                          B4=2.514
DH(K1)=-5.0, DH(B2)=2.9, DH(B3)=-6.3 and DH(B4)=-4.4 kJ mol-1.
DS(K1)=1, DS(B2)=23, DS(B3)=-6.3 and DS(B4)=-8 J K-1 mol-1.
______
Zn++ cal NaClO4 25°C 5.00M C H T K1=0.917 B2=1.59 1985IYb (14591) 479
                          K3=0.577
                          K4=0.347
DH(K1)=-5.0 \text{ kJ mol}-1, DH(K2)=2.9, DH(K3)=-6.3, DH(K4)=-4.4
DS(K1)=1 \ J \ K-1 \ mol-1, \ DS(K2)=23, \ DS(K3)=-10, \ DS(K4)=-8
______
Zn++ ISE alc/w 25°C 100% U T K1=5.24 B2=8.83 1983DSa (14592) 480
                         K3 = 3.02
                          K4=2.11
Medium: MeOH
______
Zn++ sp oth/un 25°C ? U K1=0.70 B2=1.87 1982JJa (14593) 481
                          B3=1.60
                         B4=2.07
______
Zn++ ISE non-aq 25°C 100% C T K1=3.26 1982SSd (14594) 482
Medium: dimethylacetamide
______
Zn++ vlt NaNO3 25°C 2.0M C K1=0.48 B2= 0.60 1980KJb (14595) 483
                         B3=1.0
Method: polarography.
Zn++ ISE non-aq 25°C 100% U T K1=1.95 B2=4.00 1979LTb (14596) 484
                          B3=6.48
                          B4=8.62
```

```
Medium: DMF. Method: Zn electrode
______
Zn++ sp NaClO4 25°C 1.0M C K1=1.7 1978YOa (14597) 485
Zn++ ISE non-aq 25°C 100% C K1=1.38 B2= 2.80 1976ABg (14598) 486
                          K3=2.40
                         K4=1.65
Medium: 1 M NH4ClO4 in DMSO
Zn(Hg)-electrode
Zn++ vlt KNO3 25°C 0.50M C I K1=0.60 B2= 1.58 1975ABd (14599) 487
                          B4=2.71
Method: polarography. Also data for 10-30% EtOH/H2O, 0.5-1.0 M KNO3.
At I=1.0 M, K1=0.78, B2=0.78, B4=1.59.
-----
Zn++ cal none 25°C 0.0 U H
                                    1974RBb (14600) 488
DH(K1) = -8.58 \text{ kJ mol} - 1, DS = -3.3 \text{ J K} - 1 \text{ mol} - 1; DH(K2) = -9.20, DS = 5.7;
DH(K3) = -31.6, DS = -67.78
_____
Zn++ kin NaClO4 25°C 1.0M U T K1=0.41 1973HHb (14601) 489
_____
Zn++ ISE none 25°C 0.0 U
                          K1=1.33 B2=1.91 1973RSc (14602) 490
                         B3=2.00
                          B4=1.63
Method: Zn amalgam electrode
_____
     ISE non-aq 25°C 100% U T K1=3.57 B2=4.04 1973SLd (14603) 491
Zn++
                          B3=5.57
Medium: DMSO, 1 M LiClO4. Method: Zn amalgam electrode
______
Zn++ cal NaClO4 25°C 1.0M U H T K1=0.71 B2=1.0 1971AKb (14604) 492
                          B3=1.2
                          B4=1.5
DH(K1)=-5.86 kJ mol-1, DS=-5.9 J K-1 mol-1; DH(B2)=-1.7, DS=0; DH(B3)=-0.8,
DS=0,DH(B4)=-7.5, DS=-18.8. Method:also Zn amalgam electrode
______
Zn++ EMF none 25°C 0.0 U T H K1=1.49 1971DDb (14605) 493
DH(K1)=-11.3 kJ mol-1. K1=1.42(35 C), 1.37(45 C)
______
Zn++ vlt NaClO4 25°C 2.0M U I K1=0.34 B2=1.37 1971MOa (14606) 494
                         B4=1.72
In 2 M KNO3: K1=0.53, B2=0.98, B4=1.33
______
      dis NaCl04 25°C 1.0M U T K1=0.56 B2=1.32 1971MSa (14607) 495 B3=1.18
                         T K1=0.74 B2=1.15 1970NAa (14608) 496
Zn++ ISE NaClO4 25°C 2.0M U
                          B3=1.30
                          B4=1.68
```

```
kin NaClO4 25°C 0.25M U K1=1.5
                            1969SUa (14609) 497
-----
Zn++ ix oth/un ? 0.0 U
                      K1=1.57 B2=1.56 1968NPc (14610) 498
                      B3=1.51
                      B4=3.02
______
     EMF oth/un 35°C 0.0 U K1=1.42 1968PRd (14611) 499
-----
Zn++ cal oth/un 25°C 0.0 U H K1=1.85 1967NTa (14612) 500
Medium: 0 corr. DH(K1)=0.8 kJ mol-1, DS=38.4 J K-1 mol-1
______
Zn++ ISE NaClO4 25°C 4.0M U M T K1=1.11 B2=1.81 1966MKa (14613) 501
                      K(Na+ZnL3)=-1.98
                      K(K+ZnL3)=-1.38
                      K(M+ZnL3)=-1.24(M=Rb \text{ and } NH4)
                      K(Cs+ZnL3)=-0.74
Medium: LiClO4. K(Na+ZnL4)=-1.28, -0.77(K), -0.64(Rb and NH4), -0.14(Cs)
B3=2.81, B4=2.80
______
Zn++ vlt oth/un ? var U
                      K1=0.73 B2=1.1 1966SSa (14614) 502
                      B3=0.7
                      B4=1.6
______
Zn++ oth oth/un ? var U K1=0.91 1962FLa (14615) 503
Method: ir
______
Zn++ dis NaClO4 20°C 1.0M U
                      K1=-0.3? B2=0.8 1960TDa (14616) 504
                      B3=0.3?
                      B4=0.9
                      Kd=3.7
Kd: K(Zn+2L=ZnL2(in methyl-isobutyl ketone))
______
Zn++ vlt NaClO4 25°C 3.0M U
                    K1=-0.14 B2=0.90 1959THa (14617) 505
                      B3=1.20
                      B4=1.29
                      B5=1.22
                      B6=0.63
------
     EMF KNO3 20°C 3.3?M U T H K1=1.46 B2=2.17 1958GIa (14618) 506
                      B3=2.34
                      B4=2.01
Method: Zn amalgam electrode; DH(B4)=-23.8(40 C); B4=1.74(40 C)
______
     sol none 25°C 0.0 U
                      K1=1.19 1958YKa (14619) 507
______
    sol KNO3 25°C 1.70M U
                      K1=2.05
                             1957NMa (14620) 508
                     B3=2.61
_____
Zn++ sp KNO3 20°C 0.50M U I K1=0.55 1957YTa (14621) 509
```

```
K1=0.44(I=1.7 \text{ to } 3.0), 0.52(I=1.0)
______
Zn++ EMF KNO3 20°C 1.70M U
                                 1956NMb (14622) 510
                        K1=1.53?
                        B3=2.18?
Method: Zn amalgam electrode
-----
Zn++ EMF KNO3 20°C 1.70M U
                                 1956NMb (14623) 511
                        K(ZnOH+L=ZnOHL)=2.01?
                       B(ZnOH+3L=Zn(OH)L3)=2.66?
Method: Zn amalgam electrode
-----
Zn++ vlt KNO3 30°C 2.0M U
                       K1=0.48 B2=0.85 1953FHa (14624) 512
                       B3=0
                       B4=1.30
*********************************
SO4-- H2L Sulfate CAS 7664-93-9 (15)
Sulfate;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp none 25°C dil C K1=3.43 2004AZa (15741) 513
H-point standard addition method. Competition with murexide.
______
Zn++ sol oth/un 200°C 0.10M C K1=2.6 1998WBa (15742) 514
Method: solubility of ZnO (zincite) in 0.01 m Na2SO4/0.09 m Na triflate.
-----
Zn++ sp none 25°C 0.0 C K1=2.34 1997CRc (15743) 515
Extrapolated from data for I=0.01-1.20 M Na2SO4.
Competitive reaction with xylenol orange.
______
    vlt oth/un ? var C
                                 1995VPa (15744) 516
                        K1eff=1.30
pH=7.9 of Pisuerga river water. Ionic strength ranged from 0.01 M to 0.75M.
Method: Anodic Stripping Voltammetry.
______
   sp none 25°C 0.0 C K1=2.03 1990WAa (15745) 517
______
    con none 25°C 0.0 C T K1=2.35
                                 1989ADa (15746) 518
Data for 10-50C. DH(K1)=-0.18 kJ mol-1, DS(K1)=12.87 J K-1 mol-1.
-----
Zn++ con none 25°C 0.0 C I K1=2.28
                              1986SDa (15747) 519
Value derived from data for 0.001-0.05 self medium.
-----
      oth none 25°C 0.0 C H K1=2.12
                                 1981YYa (15748) 520
Calculated from published UV spectrometry data (competition with Cu).
From conductivity data: K1=2.23, DH(K1)=6.64 kJ mol-1, DS(K1)=65.1.
______
Zn++ cal oth/un 25°C 0.17M U H
                                1978ARa (15749) 521
DH(K1)=-1.54 kJ mol-1, DS=13.8. In 0.17 M ZnCl2
```

```
con none 25°C 0.0 C T K1=2.73 1977STd (15750) 522
At 15 C, K1=2.68; at 40 C, K1=2.80.
-----
Zn++ con mixed 25°C ? U T H K1=2.22 1976KAa (15751) 523
K1=2.09 (0 C); 2.18 (20 C); 2.24 (30 C); 2.29 (40 C); 2.32 (45 C)
Medium: Water-ethylene glycol mixture
______
Zn++ ISE NaClO4 25°C 4.00M U I M K1=0.61 B2=0.88 1975FCa (15752) 524
                        B3=1.03
                        B4=0.75
                        B(ZnC1(SO4)3)=1.23
______
Zn++ con none 25°C 0.0 U K1=2.5 1975TAa (15753) 525
______
    sp none 25°C 0.0 C K1=2.05 1975YYa (15754) 526
_____
Zn++ cal NaClO4 25°C 3.0M U H K1=0.21 1974BRa (15755) 527
Medium: LiClO4. DH(K1)=3.0 kJ mol-1, DS(K1)=14.6 J K-1 mol-1
______
Zn++ dis NaClO4 25°C 1.00M U K1=0.69 B2=1.48 1974MSc (15756) 528
______
Zn++ ISE NaCl04 25°C 3.0M U TI K1=0.70 B2=0.69 1973FCa (15757) 529
                        B3=0.90
                        B4=0.85
                        B5=1.04
K1=1.9, B2=3.1(I=0); K1=0.93, B2=1.97(I=0.5); K1=0.89, B2=1.23, B3=1.66,
B4=1.67(I=1); 0.76,1.18,1.11,1.38(I=2)
                     _____
Zn++ cal none 25°C 0.0 U H
                                 1973HPa (15758) 530
DH(K1)=6.7 \text{ kJ mol}-1
______
Zn++ cal none 25°C 0.0 U H
                                1973POa (15759) 531
DH(K1)=6.1 to 6.6 kJ mol-1
______
      oth none 25°C 0.0 C K1=2.30 B2= 1.70 1972PIa (15760) 532
Calculated from published osmotic coefficient data.
-----
Zn++ EMF NaClO4 25°C 3.0M U
                        K1=0.70 B2=0.70 1971FCb (15761) 533
                        B3=0.90
                        B4=0.81
                        B(ZnC13L)=0.3
Medium: LiClO4. B(ZnClL)=0.36, B(ZnClL2)=0.62, B(ZnClL3)=0.53;
B(ZnC12L)=0.41, B(ZnC12L2)=-0.40
______
Zn++ con none 25°C 0.0 U K1=2.33 1971HPa (15762) 534
______
Zn++ cal none 25°C 0.0 C H
                                 1970LAe (15763) 535
DH(K1)=5.7 \text{ kJ mol}-1, DS(K1)=63.6 \text{ J K}-1 \text{ mol}-1.
Method: heat of dilution measurements.
```

```
Zn++ oth none 50°C 0.0 U T K1=2.6 1969HEa (15764) 536
Estimated from literature data. K1=2.7(60 C), 3.2(100 C), 3.8(150 C),
4.6(200 C)
______
Zn++ cal none 25°C 0.0 U H K1=2.49 1969IEa (15765) 537
DH(K1)=2.6 kJ mol-1; DS(K1)=56.5 J K-1 mol-1
______
Zn++ con oth/un 25°C 0.0 U T H K1=2.49 1969NPe (15766) 538
K1=2.60(50 C), 2.67(70 C), 2.73(90 C). DH(K1)=8.1 kJ mol-1
______
Zn++ con mixed 25°C 20% U I K1=2.68 1969SMd (15767) 539
Medium: THF/H2O. In 0% THF: K1=2.11, 50%: 3.16
______
Zn++ ISE oth/un 35?°C 0.0 U K1=2.12 1968PRd (15768) 540
______
Zn++ oth oth/un 25°C ? U I K1=2.34 1967FPb (15769) 541
Method:ultrasonic absorption + Bjerrum's equation for K1out. Also in mixed
______
  oth oth/un 25°C 0.0 U H K1=2.38 1967HEb (15770) 542
Method:from thermodynamic data. DH(K1)=16 to 17 kJ mol-1, DS=100 J K-1 mol-1
______
Zn++ sol oth/un 20°C var U
                              1964PCa (15771) 543
                    Kso(Zn(OH)1.5L0.25)=-13.4
______
     con oth/un 25°C var U K1=2.30 1961PFa (15772) 544
_____
Zn++ oth KNO3 -3°C sat U K1=0.64 B2=1.54 1959RRc (15773) 545
Method: freezing point
______
     oth KNO3 0°C sat U I K1=0.66
                           1958KEa (15774) 546
Method: freezing point. K1=1.31(KCl03 sat), 1.71(KCl04 sat). K1=2.26 I=0 co.
______
Zn++ EMF oth/un 25°C 0.0 U T H K1=2.38 1958NNa (15775) 547
Method: H electrode. K1=2.08(0 C), 2.27(15 C), 2.34(20 C), 2.47(35 C),
2.53(45 C). DH(K1)=16.8 kJ mol-1, DS=102 J K-1 mol-1
-----
     oth oth/un 0°C 0.0 U K1=2.34 1956KEb (15776) 548
Method: freezing point
-----
Zn++ oth oth/un 0^{\circ}C 0.0 U K1=2.2
                              1955BPb (15777) 549
Method: freezing point. K1=2.00 to 2.38
-----
     sol oth/un 75°C 0.0 U
                               1954DOa (15778) 550
                      Kso(Zn(OH)1.5L0.25)=-14.3
______
                      1939HAa (15779) 551
Zn++ gl oth/un 25°C var U
                     Kso(Zn(OH)1.5L0.25)=-13.3
______
```

	con oth/ur lectrode K1					1938	DAa (1578	·	
			0.0 U		K1=2.31	1938	OGa (1578	1) 553	
Zn++ *******	con oth/ur ******	18°C (******	0.0 U *****	*****	K1=2.35 ******	1927 ************************************	DAb (1578 *****	2) 554	
Thiosulfat									
Metal	Mtd Medium					Lues R		ExptNo	
				ı	B3=2.53	B2= 2.34	1986MGb	(16708)	555
	larography, 								
DH(K1)=9.2	cal oth/ur 0 kJ mol-1, 	DS=52.3	3. In 0	.17 M Z	ZnCl2	1978	ARa (1670	•	
DH=9.20 kJ	mol-1.					1974	•	•	
Zn++	dis NaClO4	25°C 1.	.00M U		K1=0.62	B2=2.28	1974MSc	(16711)	558
		25°C 2			K1=1.10 K3=0.56	B2=1.95	1972NEb	(16712)	559
Method: Ag	electrode								
Zn++	ISE NaClO4	1 25°C 3	3.0M U	I	K1=0.96 B3=3.30 B(Zn2L4)=	B2=1.94 =5.8(?)	1970PEa	(16713)	560
Zn++	vlt oth/ur) \	/ar U	ļ	B2=2.04 B3=1.70 B4=3.33	1969	SSf (1671	4) 561	
Medium: 25	% MeOH: B2=	2.79, B3	3=4.0,						
Method: Zn	/Hg electro	ode + sp	pec., a	lso co	nstants f	B2=4.60 For mixed L/	C2O4 comp	lexes	562
Zn++	ix oth/ur	18°C 0.	.30M U		B2=4.59	1957	KPb (1671	6) 563	
Zn++ Medium:Na2	sol oth/ur SO4	1 40°C 3.	.00M U		K1=1.53	1957	NMa (1671		
Zn++		25°C 1	1.0M U	H ol-1	K1=1.19	1957	YGa (1671	•	
Zn++	EMF KNO3	20°C 1	.70M U	I			NMb (1671		

B(Zn0+2L)=3.13?

```
Method: Zn/Hg electrode. In 1.7 M Na2SO4 B2=2.18?, 3 M Na2SO4 B2=2.22?
K(ZnOH+2L)=2.13(KNO3), 1.28(Na2SO4), 1.37(3 M Na2SO4)?
------
     sp none 25°C 0.0 U T H K1=2.29 1955GMa (16720) 567
K1=2.24(15 C), 2.40(35 C). DH(K1)=13.0 kJ mol-1, DS=92 J K-1 mol-1
-----
Zn++ EMF oth/un rt? var U K1=2.3
                                 1936FRa (16721) 568
-----
     ISE oth/un ? var U
                                 1904EUa (16722) 569
                     B4<0.6
******************************
             H2L
Se--
                 Selenide
                            (6335)
Selenide:
         Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
      oth none 25°C 0.0 U
                                  1964BUe (16933) 570
                       Kso = -29.4
**********************************
SeCN-
             HL
                 Selenocyanate CAS 73102-11-2 (440)
Selenocyanate;
______
                                 Reference ExptNo
Metal Mtd Medium Temp Conc Cal Flags Lg K values
-----
      ISE non-ag 25°C 100% C K1=2.0
                                 1982SSd (16956) 571
Medium: dimethylacetamide
______
Zn++ cal NaCl04 25°C 1.0M U H K1=0.44 B2=0.64 1974AAb (16957) 572
DH(K1) = -5.94 \text{ kJ mol-1}, DS = -11.7 \text{ J K-1 mol-1}, DH(K2) = -0.42, DS = 2.9.
Zn amalgam electrode also used
                Zn++
      EMF mixed 20°C 50% U I
                        K1=2.15
                               B2=2.64 1970SAe (16958) 573
                        B3=3.80
Medium: 50\% \text{ v/v} acetone/H20. K1=2.30, B2=3.49, B3=4.50(60%);
2.74, 4.04, 5.0(75%); 4.95, 5.54, 6.5(90%)
Zn++ EMF non-aq 20°C 100% U I
                        K1=7.88 B2=10.0 1970SAe (16959) 574
                        B3=11.15
                        B4=11.85
Medium: acetone. In acetonitrile: K1=7.3, B2=9.4, B3=10.8, B4=12.25;
In DMF:K1=2.6, B2=4.3, B3=4.9
-----
            30°C 2.0M U
      vlt KNO3
                        K1=0.76 B2=1.00 1967HBa (16960) 575
**********************************
Se03--
                 Selenite CAS 7783-00-8 (2391)
             H2L
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

Zn++		n 18°C dil U	Kso=-7.72	1968RVa (17021) 576
Zn++		n 20°C var U	Kso(ZnL)=-6.59	1956CHe (17022) 577
******* Se04 Selenate;	********		**************************************	
Metal	Mtd Medium	n Temp Conc Cal	. Flags Lg K values	Reference ExptNo
		n 25°C 0.17M U DS=18.0. In 0		1978ARa (17087) 578
Zn++	dis NaClO4	1 25°C 1.00M U	K1=0.73 B2=1	.38 1974MSc (17088) 579
	,	n 20°C var U	Kso(Zn(OH)1.5L0	1959BRc (17089) 580
Zn++	con none	25°C 0.0 U	K1=2.19	
Si03	SiO2(OH)2	H2L Silica	te CAS 7699-4	
Metal	Mtd Medium	n Temp Conc Cal	. Flags Lg K values	Reference ExptNo
	odynamic da	ata. Ks(ZnSiO3(s)+H20=SiO2(s)+Zn+20H	
SiW11039			(2464)	
Metal	Mtd Medium	n Temp Conc Cal	. Flags Lg K values	
			K1=7.28 K(beta1 isomer) K(beta2 isomer) K(beta3 isomer)	=6.96 =6.88 =7.00
CHN3S2		**************************************	**************************************	******
Metal	Mtd Medium	Temp Conc Cal	 Flags Lg K values	Reference ExptNo
Zn++	EMF NaClO4	 1 25°C 2.0M U	K1=0.25 B2= B3=1.68 B4=1.55 B5=2.48	0.90 1981NMc (17456) 584
Zn electro		·**********	*******	******

CH2O2 HL Formic acid CAS Methanoic acid; H.COOH	64-18-6 (37)
Metal Mtd Medium Temp Conc Cal Flags Lg K val	Lues Reference ExptNo
Zn++ gl diox/w 25°C 70% M K1=2.41 Medium: 70% v/v DMSO/H2O, 0.1 M NaNO3	1990BSb (17548) 585
Zn++ oth NaClO4 25°C 2.0M U K1=0.73 Methods: averaged results from potentiometric, pol spectrophotometric measurements.	· · · · · · · · · · · · · · · · · · ·
Zn++ gl diox/w 25°C 30% C I K1=1.24 Medium: 30% dioxan/H20, 0.1 M NaNO3. In 0%, K1=1.0	1989LCb (17550) 587
Zn++ gl NaNO3 25°C 0.10M C I M K1=0.95 K(Zn(phen Data also for 50% v/v EtOH/H2O, and 50% v/v Dioxan	n)+L)=0.83
Zn++ gl KNO3 25°C 0.10M C I M K1=1.07 K(Zn(phen In 50% dioxan: K1=1.96, K(Zn(phen)+L)=1.82. In 50%	n)+L)=0.90
Zn++ gl KNO3 25°C 0.10M C I M K1=1.07 K(Zn(phen Also data in 30, 50, 60, 70, and 90% (v/v) Ethanol 70, 80, and 90% (v/v) dioxane/water.	n)+L)=0.90
Zn++ sol oth/un 25°C 1.00M U K1=0.92	1973TRc (17554) 591
Zn++ vlt oth/un 25°C 1.00M U K1=0.73	
Zn++ gl NaNO3 30°C 0.40M U K1=0.73	
Zn++ EMF NaClO4 25°C 2.00M U K1=0.70 B3=1.20	
Zn++ vlt NaClO4 25°C 2.00M U K1=0.70 B3=0.70	B2=1.18 1968FPa (17558) 595
Zn++ gl diox/w 25°C 50% U M K1=1.97 K(Zn(bpy) Medium: 0.1(NaClO4), 50% dioxan	1968GPd (17559) 596)+L)=1.83
Zn++ vlt NaClO4 25°C 2.0M U K1=0.60 K3=0.48 K4=0.78	

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      vlt alc/w ? 40% U I B2=0.62
                                  1962MGa (17673) 598
Medium: 40% MeOH, 0.05 NaClO4. B2=0.79(77%), 0.93(85%), 1.9(92%), 3.7(100%)
      vlt alc/w
             ? 90% U I K1=1.64 B2=1.96
                                      1962MGa (17674) 599
Medium: 90% EtOH, 0.05 NaClO4. K1=2.1(96%), B2=3.5(96%); B3=4.23(96%);
B4=9.0(100\%)
***********************************
                            CAS 4312-87-2 (8245)
N-Formylhydroxylamine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
      vlt KNO3 30°C 0.50M C B2=4.32
                                 1983BNa (17682) 600
Method: polarography.
*************************
            H3L Phosphonoformic CAS 4428-95-9 (5654)
Phosphonoformic Acid; 0:P(OH)2.COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       K1=5.64
    gl NaNO3 25°C 0.10M C
                                  1994SCa (17693) 601
                         K(Zn+HL)=2.57
                        K(ZnL+H)=4.50
***********************************
                         CAS 62-56-6 (51)
CH4N2S
                 Thiourea
Thiocarbamide, Thiourea; (H2N)2CS
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      ISE mixed 25°C 82% U K1=1.77 B2=1.96 1979TBb (17739) 602
Medium: 82% formamide
______
      EMF mixed 25°C 90% U I
                         K1=2.05 B2=3.85 1966SLc (17740) 603
7n++
                         K3=1.65
                         K4=1.45
                         K5 = 0.75
Medium: 0-90% acetone. K1=0.5(0%),1.0(50%),1.75(80%), K2=0.25(0%),0.7(50%),
1.45(80\%), K3=0.15(0\%), 0.5(50\%), 1.20(80\%), K4=0.4(80\%)
*********************************
                Methyl alcohol CAS 67-56-1 (597)
CH40
Methanol; CH3.OH
------
     Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
______
Zn++ cal non-ag 25°C 100% C IH
                                   2002LVa (17871) 604
                         K(ZnP+L)=2.78
Medium: CCl4. ZnP: Zn(II)tetraphenylporphyrine. DH(ZnP+L)=-13.21 kJ mol-1,
```

```
DS=9 J K-1 mol-1. Data for related ligands.
______
                 ? U
     vlt alc/w 20°C
                        K1=-0.14 B2=0.04 1981PKb (17872) 605
                        B3=1.42
                        B4=0.94
                        B5=1.36
                        B6=2.01
     EMF alc/w 20°C 100% U
                                 1964GUa (17873) 606
                        K(2Zn+3(H-1L))=12.1
Method: H electrode. Medium: MeOH, 1.0 M Me4NCl
**********************************
                           CAS 2565-58-4 (1973)
Chloromethylphosphonic acid; Cl.CH2.PO3H2
     Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
-----
     EMF NaNO3 25°C 0.10M U K1=2.11 1970TNa (17922) 607
*******************************
CH406C12P2
             H4L
                           CAS 10596-23-3 (2370)
Dichloromethanediphosphonic acid; Cl2.C(PO3H2)2
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.10M U K1=6.70
      gl KCl
Zn++
                                 1976DGe (17945) 608
                       K(Zn+HL)=4.61
**********************************
CH5N
                 Methylamine CAS 74-89-5 (155)
Methylamine; CH3.NH2
           ------
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
     sol oth/un 19°C 0.10M U
                        B2 = < 6.3
                                 1933TAa (17996) 609
                        B4=7.7
*******************************
              L
                 Semicarbazide CAS 563-41-7 (373)
CH5N30
Semicarbazide, N-Aminourea; H2N.CO.NH.NH2
  Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
-----
      ISE oth/un 30°C 0.10M U K1=2.3 B2=3.7 1969GLa (18050) 610
*******************************
                          CAS 79-19-6 (372)
CH5N3S
              L
Thiosemicarbazide; H2N.CS.NH.NH2
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     gl KNO3 25°C 0.50M U K1=1.34 B2=2.58
                                    1979LGa (18062) 611
                       B3=3.71
```

CH5N3Se	*********	********	B2=2.8 ************************************	1969GLa (18063) 612 ************************************
Metal	Mtd Mediur	n Temp Conc Cal Flags	s Lg K values	Reference ExptNo
******** CH503P	*********	n 30°C 0.10M U ************************************	******	1969GLa (18086) 613 ************************************
Metal	Mtd Mediur	n Temp Conc Cal Flags	s Lg K values	Reference ExptNo
CH504P	********	*******		1992SCa (18112) 614 ************************************
Metal	Mtd Mediur	n Temp Conc Cal Flags	s Lg K values	Reference ExptNo
Zn++	gl NaNO3	25°C 0.1M M	K1=2.22	1996SSa (18161) 615
Zn++	gl NaCl		B(ZnH-1L)=-5.12	1990KLb (18162) 616
K1(65 C)=2	.67	n 20°C 0.10M U T		1965BRb (18163) 617 ************************************
CH6N03P			CAS 1066-5	
Metal	Mtd Mediur	n Temp Conc Cal Flags	s Lg K values	Reference ExptNo
Zn++			R K1=5.0 K(Zn+HL)=1.70	2001PRa (18206) 618
	ommended val			
Zn++	gl NaNO3		K(Zn+HL)=1.72 K(ZnL+H)=6.89	1994SCa (18207) 619
			B(ZnHL)=11.72 B(ZnH2L2)=23.6 B(ZnH-1L)=-1.9	1979WNb (18208) 620
Zn++	gl NaClO4		K1=5.26 B2=8 B(ZnHL)=12.72	.68 1976SOa (18209) 62

```
gl KNO3 25°C 0.10M U
Zn++
                        K1=5.64
                                 1971WNc (18210) 622
                       B(ZnHL)=11.68
                       B(ZnH2L2)=23.6
********************************
                Carbohydrazide CAS 497-18-7 (3537)
CH6N40
Carbohydrazide; H2N.NH.CO.NH.NH2
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 20°C 0.10M U K1=2.77 1964COd (18236) 623
*************************
                         CAS 2231-57-4 (4209)
Thiocarbohydrazide; H2N.NH.CS.NH.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
           25°C 0.50M U K1=2.53 1969BDa (18242) 624
    gl KCl
*******************************
               Medronic acid CAS 1984-15-2 (2384)
            H4L
Methanediphosphonic acid; CH2(PO3H2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       K1=9.94
Zn++ vlt NaCl 37°C 0.15M C
                                 1997ZJa (18259) 625
                       K(ZnL+2H)=10.02
                       K(ZnH2L+2H)=5.73
                       K(ZnL+Zn)=5.56
                       K(ZnL+OH)=4.46
Also estimat.via linear free energy relationship K(Sm+L)=9.3;K(SmL+H)=9.0
K(Ho+L)=9.6; K(HoL+H)=9.0
-----
    gl KCl 25°C 0.10M U
                        K1=13.99 B2=20.55 1967KLa (18260) 626
Zn++
                       K(Zn+HL)=7.50
                       K(Zn+2HL)=13.54
                       B(Zn2L)=18.16
                       K(2Zn+HL)=11.23
**********************************
C2H2
                Acetylene CAS 74-85-1 (703)
Ethyne: HCCH
          ______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ dis none 40°C 0.0 U T K1=-1.70 1984DWa (18352) 627
*********************************
                          CAS 79-43-6 (1282)
C2H2O2C12
Dichloroethanoic acid; Cl2CH.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 70% M K1=1.78
                               1990BSb (18389) 628
```

Medium: 70 ******* C2H2O2F2			-	****	***	*****		******** 381-73-7			*****	
Difluoroet	hanoi	c acid; 	; F2HC	ool	 							
Metal	Mtd I	Medium	Temp	Conc	Cal	Flags	Lg K val	lues	Refe	rence E	xptNo	
Zn++ Medium: 70 *****	% v/v	DMSO/H	120, 6).1 M	NaNo	03				•	•	
C2H2O3 Glyoxylic	acid;	OHC.CO	HL OOH	Gly	oxy.	lic ac	id CAS	298-12-4	(1142	2)		
Metal	Mtd I	Medium	Temp	Conc	Cal	Flags	Lg K val	Lues	Refe	rence E	xptNo	
Zn++ See glycin ******	ie, ala	anine a	and 2-	amino	oisol	butano:	ic acid f		y comp	olexes	•	
C2H2O4 Ethanedioi			H2L					144-62-7				
Metal	Mtd I	Medium	Temp	Conc	Cal	Flags	Lg K val	lues	Refe	rence E	xptNo	
Zn++	gl I	KN03	35°C	0.10	1 C		K1=4.35 K(ZnL+A)=	19	997PSb	(18630) 631	
H2A is thi	.amine	orthop	hosph	noric	acio		K(ZIILTA)-	-0.10				
Zn++	vlt	oth/un	25°C	0.1	1 U		K1=3.5	19	995FFa	(18631) 632	
Zn++	gl I	KN03	30°C	0.10	1 U		K1=5.34	19	994RSa	(18632) 633	
Zn++	dis I	NaCl	25°C	0.68	1 C		K1=3.58	19	990SBb	(18633) 634	
Zn++	gl I	NaCl	25°C	0.50	1 C		K1=3.46	B2=6.03	3 198	39FRa (18634)	635
Zn++						ļ	B(ZnL(cyt	idine))=	9.40	·		
Zn++	gl I	KN03	35°C	0.10	1 C		K1=5.31		985RRh	(18636) 637	
Zn++						М		19				
Method: Pa	per e	lectrop	hores	sis, p	oH 10	0.0.						
Zn++						I	K1=3.50 B3=6.00	B2= 5.0			18638)	639
Method: po												
Zn++	_							B2=6.08			18639) 	640

Zn++	sol	oth/un	20°C	2.10M	U	М	K1=5.40 B(ZnL(glyco B(ZnL(glyco B(ZnL(lacto B(ZnL(lacto	olate))=6 olate)2)= ate))=6.8	6.47 6.95 88	40) 641	
Zn++	dis	NaClO4	23°C	1.00M	U		K1=3.26	B2=6.63	1978PSb	(18641)	642
Zn++	gl	NaC104	37°C	0.15M	C		K1=4.05 B(Zn2HL2)=1		'6MTa (1864	12) 643	
							K1=3.42		1974MSc	(18643)	644
	sol	oth/un	20°C	2.10M	U		K1=5.51	197	-	-	
Zn++									57GPb (1864		
Medium: 1(?) Z	n(NO3)2									
Zn++	EMF	KC1	25°C	2.00M			K1=3.48 B3=7.08	B2=5.48	1967KCa	(18646)	647
							K1=3.44 K3=0.76 B(Zn(en)L): B(Zn(en)2L) K(ZnLen+en: +L)=0.38, K	=9.21)=12.31 =Zn(en)2+	-L)=1.64	(18647)	648
 Zn++	 dis	oth/un	25°C	0.0	 U		K1=4.85		 1966RMb		649
 Zn++		NaC104					B2=7.59		33STc (1864		
 Zn++	gl	oth/un	25°C	0.10M	U		 K1=4.9	105			
Zn++								19.	100.	00) 651	
							K1=3.88 K(Zn+HL)=1 K(Zn+2HL)=3	B2=6.40 .72 3.12	1958SLb	(18651)	652
Zn++	 ix	 oth/un	?	· · · · · · · · · · · · · · · · · · ·	 U		K1=3.88 K(Zn+HL)=1 K(Zn+2HL)=3 K2=7.11	B2=6.40 .72 3.12	1958SLb	(18651) 52) 653	652
Zn++	ix	oth/un	· · · · · · · · · · · · · · · · · · ·	?	U U U		K1=3.88 K(Zn+HL)=1 K(Zn+2HL)=3 K2=7.11 B2=7.60	B2=6.40 .72 3.12 	1958SLb	(18651) 52) 653	652
Zn++ 	ix gl 	oth/un oth/un oth/un	? 25°C	? >0.1	U U U		K1=3.88 K(Zn+HL)=1 K(Zn+2HL)=3 K2=7.11 B2=7.60	B2=6.40 .72 3.12 	1958SLb 67KPb (1865	(18651) 52) 653 53) 654	
Zn++ Zn++ 	ix gl sol	oth/un oth/un oth/un oth/un	25°C	? >0.1 0.0	U U U		K1=3.88 K(Zn+HL)=1 K(Zn+2HL)=3 K2=7.11 B2=7.60	B2=6.40 .72 3.12 	1958SLb 57KPb (1869 66Z0a (1869 5 1940VBa	(18651) 52) 653 53) 654 (18654)	655
Zn++ Zn++ Zn++	ix gl sol EMF	oth/un oth/un oth/un oth/un oth/un	? 25°C 25°C 25°C	>0.1	U U U U U		K1=3.88 K(Zn+HL)=1 K(Zn+2HL)=3 K2=7.11 B2=7.60 K1=5.00	B2=6.40 .72 3.12 	1958SLb 57KPb (1869 56Z0a (1869 5 1940VBa	(18651) 52) 653 53) 654 (18654) (18655)	655

B3=8.15

```
************************************
                        CAS 625-75-2 (2968)
Nitroacetic acid; O2N.CH2.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     kin oth/un 18°C 0.20M U K1=0.03
                              1949PEa (19201) 659
Medium: Ba(NO3)2
********************************
               1,2,4-Triazole CAS 288-88-0 (381)
            HL
1,2,4-Triazole; cyclo(-NH.N:CH.N:CH-) C2H3N3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ cal NaNO3 25°C 1.00M U H
                               1986ARa (19221) 660
                      K(Zn+HL)=1.19
DH(Zn+HL) = -15.6 \text{ kJ mol}-1
                  -----
Zn++
     gl KNO3 25°C 0.50M U
                               1980LKb (19222) 661
                      K(Zn+HL)=1.19
                      K(Zn+2HL)=2.04
                      K(Zn+3HL)=2.56
******************************
C2H3N3O2
                        CAS 3232-84-6 (3540)
            HL
               Urazole
1,2,4-Triazolidin-3,5-dione;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 20°C 0.10M U K1=1.87 1963C0b (19238) 662
***********************
                         CAS 4005-51-0 (1426)
2-Amino-1,3,4-thiadiazole; C2HN2S.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.50M U K1=0.32 B2=0.45 1982GLa (19250) 663
HL
                Bromoacetic acd CAS 79-08-3 (1309)
Bromoethanoic acid; Br.CH2.COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 25°C 0.10M U K1=1.75 1969GPb (19274) 664
0.1 M NaClO4 in 50% dioxane/H20
**********************************
            HL Chloroacetic CAS 79-11-8 (34)
Chloroethanoic acid; ClCH2.COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

	gl diox/v % v/v DMSO,				K1=2.23	19	90BSb	(19336) 665	
Zn++	gl NaNO3	30°C	0.40M	U	K1=0.56	19	70BTa	(19337) 666	
Zn++	EMF NaClO	18°C	2.00M	U	K1=0.40	19	70FMa	(19338) 667	
	gl diox/v 04 in 50% d					19) 668	
	gl diox/v % dioxan, 0) 669	
Zn++	EMF NaClO	1 25°C	1.0M		K1=0.96 B3=0.7? B4=1.5(?)		196	53LCa (19341)	670
	inhydrone e						*****	*****	*****	
C2H3O2F Fluoroetha	noic acid;			roacetic	ac CAS	144-49-0	(4222	2)		
Metal	Mtd Mediur	n Temp	Conc C	_	Lg K val			ence E		
0.1 M NaCl	gl diox/v 04 in 50% (******	dioxane	e/H20	U	K1=1.75	19	69GPb	(19401) 671	
C2H3O2I	ic acid; I	HL	Iodo			64-69-7			***	
Metal	Mtd Mediur	n Temp	Conc C	Cal Flags	Lg K val	ues.	Refer	ence E	xptNo	
0.1 M NaCl	gl diox/v 04 in 50% (dioxane	/H20					•	•	
C2H4 Ethene; H2	********* C:CH2			ereviene		74-85-1		*****	****	
Metal	Mtd Mediur	n Temp	Conc C	Cal Flags	Lg K val	ues	Refer	rence E	xptNo	
Zn++ *******	dis none ******					19		(19420 *****	•	
C2H4N4 3-Amino-1,	2,4-triazo	HL Le; C2H	12N3.NH	12	CAS	61-82-5	(1265))		
Metal	Mtd Mediur	n Temp	Conc C	_	_				-	
Zn++	gl KNO3	25°C	0.10M	U I	 K(Zn+HL)= K(Zn+2HL)	19 2.14		(19471		

K(Zn+3HL)=5.66

```
Data also for I=0.5 and 1.0 M
********************************
C2H4N4
                        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
-----
Zn++ gl KNO3 25°C 0.50M U
                               1980LKb (19484) 675
                      K(Zn+HL)=1.14
                      K(Zn+2HL)=2.56
                      K(Zn+3HL)=2.56
***********************************
C2H4N4O2
            HL
                      CAS 21531-96-4 (3541)
               Urazine;
4-Amino-1,2,4-triazolidin-3,5-dione;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 20°C 0.10M U K1=2.17 1963C0b (19490) 676
CAS 16691-43-3 (9032)
3-Amino-5-mercapto-1,2,4-triazole;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KNO3 25°C 0.10M C K1=4.01 2003AHa (19494) 677
*******************************
               Thioacetic acid CAS 507-09-5 (4223)
C2H4OS
            HL
Thiolethanoic acid; CH3.CO.SH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 30°C 60% U K1=4.8 B2=8.90 19720Tc (19505) 678
Medium: 60% dioxan, 1 M (K,Na)NO3
****************************
                         CAS 2042-42-4 (592)
C2H40S2
(Methoxy)dithiomethanoic acid; CH30.CS.SH
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     vlt KNO3 25°C 0.40M C
Zn++
                               1984HSb (19510) 679
                     B3=8.05
Method: polarography.
***********************
            HL Acetic acid CAS 64-19-7 (36)
Ethanoic acid; CH3.COOH
    Mtd Medium Temp Conc Cal Flags Lg K values
                             Reference ExptNo
-----
    gl NaClO4 25°C 0.10M M M
                               1994KTa (19742) 680
```

K(ZnA+L)=1.9

A:1,4,7,10-Tetraazacyclododecane. By kinetic methods, K=1.6	
Zn++ kin NaClO4 25°C 0.10M M M 1992KKb (19743) 68 K(ZnA+L)=2.6	31
A:1,5,9-triazacyclododecane	
Zn++ EMF oth/un 50°C 0.30M C TI K1=1.9 B2=3.4 1991GDa (1974 B3=4.1	14) 682
50-295 C;I=0.03-1.0 M. Constants at I=0	
Zn++ vlt KNO3 25°C 0.10M C K1=2.40 B2= 3.92 1991KNb (1974 Method: polarography, medium pH 8.5.	15) 683
Zn++ gl diox/w 25°C 70% M K1=2.89 1990BSb (19746) 68 Medium: 70% v/v DMSO/H2O, 0.1 M NaNO3	34
Zn++ oth NaClO4 25°C 2.0M U K1=0.90 1990FTa (19747) 68 Methods: averaged results from potentiometric, polarographic and spectrophotometric measurements.	35
Zn++ gl diox/w 25°C 30% C I K1=1.62 1989LCb (19748) 68 Medium: 30% dioxan/H20, 0.1 M NaNO3. In 0%, K1=1.11; 50%, K1=2.31.	36
Zn++ gl NaNO3 25°C 0.10M C I M K1=0.93 1988LTc (19749) 68 K(Zn(phen)+L)=0.81 Data also for 50% v/v EtOH/H2O, and 50% v/v Dioxan/H2O mixtures	37
Zn++ nmr none 20°C 0.0 U 1986DHa (19750) 68 K(ZnA+L)=0.8	38
In D20. A = trien	
Zn++ gl KNO3 25°C 0.10M C I M K1=1.11 1985BSd (19751) 68 K(Zn(phen)+L)=0.90	39
In 50% dioxan: K1=2.31, K(Zn(phen)+L)=2.15. In 50% EtOH: K1=1.86, K=1.81	
Zn++ gl KNO3 25°C 0.10M C I M K1=1.11 1985SMf (19752) 69 K(Zn(phen)+L)=0.90	90
Also data in 30, 50, 60, 70, and 90% (v/v) Ethanol/water and 10, 30, 50, 60, 70, 80, and 90% (v/v) dioxane/water.	ð,
Zn++ gl KCl 25°C 0.10M U K1=1.14 1983LTa (19753) 69	91
Zn++ gl NaNO3 25°C 0.10M C K1=0.86 1981BKb (19754) 69	92
Zn++ ix none 23°C 0.0 U K1=0.91 B2=1.10 1980PSb (1975	55) 693
Zn++ ISE NaCl 25°C 1.00M C I K1=0.63 B2=1.10 1979BJd (1975 In 1.0 M NaClO4: K1=0.90	56) 694

Zn++	sp	NaClO4	25°C	1.0M	С		K1=1.4	1978YOa (19757) 695
Zn++	gl	oth/un	25°C	0.10M	U			B2=7.00 1975SNb (19758) 696
Medium: 0. Bn: Zn(ClC						•		nLCl04+LiCl04.
Zn++	kin	KCl	25°C	0.10M	U		K1=1.248	1974CLa (19759) 697
								1973HHb (19760) 698
Zn++	gl	NaClO4	25°C	3.00M	U		K1=0.91 B3=1.57	B2=1.36 1971PEa (19761) 699
								B2=1.02 1971TRb (19762) 700
Zn++	sol	oth/un	25°C	1.00M	U		K1=-0.10	B2=1.51 1971TRb (19763) 701
Zn++	_	NaNO3	30°C	0.40M				1970BTa (19764) 702
		NaClO4	25°C	2.00M				B2=1.36 1970FMa (19765) 703
Zn++ 0.1 M NaCl					U		K1=2.32	1969GPb (19766) 704
Zn++	ISE	NaClO4	25°C				B3=1.72	B2=1.25 1969WAa (19767) 705
Zn++	vlt	NaClO4	25°C					B2=0.78 1968FPa (19768) 706
Zn++	gl	diox/w	25°C	50%	U	M		1968GPd (19769) 707
Medium: 50		=					K(Zn(bpy)+	
Zn++	gl	oth/un	25°C				K1=1.57	1964AMa (19770) 708
	EMF	NaClO4	25°C		U			1963LCa (19771) 709
Zn++	vlt	NaNO3	25°C	4.0M	U		K1=0.96	1963MAc (19772) 710
Zn++				0.10M	U		K1=1.28	B2=2.09 1962KPa (19773) 711
	vlt	oth/un 0.57(3	25°C 5 C)	0.20M	U -	Т	K1=0.66	1960TKb (19774) 712
Zn++	gl							1960YYa (19775) 713

Zn++	oth	oth/un	?	?	U		K1=1.57	1956	YFa (1977	76) 714	
	sol	oth/un	35°C	->0	U		K1=1.59	1955	BAa (1977	7) 715	
Zn++	EMF	oth/un	35°C	->0	U		K1=1.46	1955	BAa (1977	716 (8)	
Zn++	EMF ****	KCl	? ****	0.20M ****	1 U ****	*****	K1=1.03	1938 ******** 58-11-1 (5	CKa (1977 *****	'9) 717	
Mercaptoet		ic acid							·		
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	s Lg K valu	ues R	eference	ExptNo	
Zn++ Medium: 5%	_					3.		1995	·	•	
Zn++	_					M	K(Zn(nta)⊣	1989			
Zn++	gl		30°C	0.10	1 U		K1=8.01	B2=15.26			7
Zn++	gl		20°C	0.10				B2=15.18		(20288)	7
					1 U		K1=7.80 B3=17.80 K(Zn2L3)=2 K(Zn3L4)=3	B2=14.96 25.2			7
	_							B2=15.9 O C: K1=8.0			7
								B2=14.41 ******			7
C2H4O3 2-Hydroxye			HL	Gly	coli			79-14-1 (3		· ጥ ጥ ጥ ጥ ጥ ጥ ጥ	
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K valι	ies R	eference	ExptNo	
								B2=2.70			7
Zn++	sol	oth/un	20°C	2.10M	1 U	М	B(ZnL(oxal B(ZnL2(oxa	late))=6.47 alate))=6.9	KUa (2045 5	57) 726	
								B2=5.17	1978PSb	(20458)	7
Zn++	vlt	NaNO3	25°C	3.00M	1 U		K1=1.45 K3=0.29 K4=-0.38	B2=2.57	1971AMa		7

```
Zn++ vlt NaClO4 18°C 2.00M U K1=1.93 B2=2.94 1970FBa (20460) 729
                        B3=3.48
                        B4=3.00
______
                       K1=1.72 B2=2.88 1970FMa (20461) 730
Zn++ EMF NaClO4 25°C 2.00M U
                        B3=3.00
Zn++ ix oth/un ? ? U M
                                 1969LEa (20462) 731
                       K(ZnL2+ZnA2=2ZnAL)=0.88
HA=2-hydroxyisobutanoic acid
_____
                      K1=1.79 B2=2.61 1969WAa (20463) 732
Zn++ ISE NaCl04 25°C 3.00M U
                       B3=3.27
-----
Zn++ gl diox/w 25°C 50% U M K1=3.26 1968GPd (20464) 733
                       K(Zn(bpy)+L)=3.02
Medium: 50% dioxan, 0.1 m NaClO4
Zn++ EMF NaClO4 25°C 1.0M U
                       T K1=1.92 B2=2.93 1963LCa (20465) 734
                        B3=3.00
                        B4=4.04
Method: quinhydrone electrode
******************************
       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
______
Zn++ cal NaNO3 25°C 0.50M C H
                                  2003ZKa (21237) 735
                        DH(K1) = -18.03 \text{ kJ mol} -1
                        DH(B3) = -45.77
                        DH(B2) = -29.53
for 1.0 M NaNO3 DH(K1): - 19.77; DH(B2)=-33.05; DH(B3)=- 49.21
for 1.5 M NaNO3 DH(K1)=: - 21.06; DH(B2)=-35.95; DH(B3)= - 51.01
______
Zn++ gl NaNO3 25°C 0.10M C M K1=5.46 B2= 9.96 2000KAb (21238) 736
                        K(ZnA+L)=3.58
H2A=Dipicolinic acid.
_____
Zn++ gl NaNO3 25°C 0.10M C M K1=5.29 B2= 9.17 2000ZLa (21239) 737
                        B(ZnLA)=11.49
A=12-Pentyl-1,4,7,10-tetraazacyclotridecane-11,13-dione.
______
Zn++ gl KNO3 25°C 0.10M C M K1=5.30 1999AAa (21240) 738
                        K(ZnL+A)=3.62
                        B(ZnLA)=8.92
                        K(ZnHL+B)=2.83
                        K(ZnHL+C)=1.89
K(ZnHL+D)=2.13. HA=MOPSO, HB=MOPS, HC=DIPSO, HD=TAPSO.
```

```
gl alc/w 37°C 40% C M K1=5.48 B2=10.03 1998AAa (21241) 739
Zn++
                            B(ZnLA)=10.00
                            K(ZnL+A)=4.52
                            K(ZnA+L)=4.78
                            B(ZnLC)=9.89
HC:2[o-hydroxyphenylazo]-2-cyanomethyl benzimidazole. 40% EtOH/H2O, I=0.15
H2A:5-[o-hydroxyphenylazo] barbituric acid. K(ZnL+C)=4.41, K(ZnC+L)=4.86.
-----
       gl KNO3 35°C 0.10M C M K1=5.26
                                    B2= 9.27 1998ZWa (21242) 740
Zn++
                            B(ZnH-1L2)=1.66
                            B(ZnH-2L2)=-7.68
Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-
2,10-dione dioxime
-----
       gl alc/w 37°C 40% C K1=5.48 B2=10.03 1997AAb (21243) 741
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4.
______
Zn++ gl alc/w 25°C 50% C K1=5.13 1997MGb (21244) 742
______
Zn++ gl KNO3 35°C 0.10M C M K1=5.50 1997PSb (21245) 743
                            K(ZnL+A)=4.86
H2A is thiamine orthophosphoric acid.
Zn++ gl none 25°C 0.0 C TIH K1=5.43 B2= 9.90 1995CDc (21246) 744
                            B3=12.29
Data for 0-0.09 M and 5-45 C. DH(K1)=-11.4 kJ mol-1, DH(B2)=-25.3,
DH(B3) = -40.2
               Zn++ gl NaNO3 37°C 0.10M U M K1=5.02 1994MGc (21247) 745
Data for ternary complexes with 6-aminopenicillanic acid
Zn++
       gl NaCl04 25°C 0.20M U T M K1=5.22 B2= 9.59 1993PPa (21248) 746
                            K(ZnA+L)=5.04
A is 2,2'-bipyridylamine. Also data for 35 and 45 C.
______
Zn++ gl NaClO4 25°C 0.20M U M K1=5.33 B2=10.02 1992VBa (21249) 747
                           B(ZnL(Ala))=10.09
------
      vlt KNO3 25°C 0.10M C M K1=4.80 B2= 8.94 1991KNb (21250) 748
                            B3=11.41
                            B(ZnAL)=6.54
                            B(ZnA2L)=9.28
                            B(ZnAL2)=10.75
Method: polarography, medium pH 8.5. HA is ethanoic acid.
______
       gl KCl 25°C 0.15M C TIH R K1=5.03 B2=9.23 1991KSa (21251) 749
                            B3=11.77
0.5 M, K1=4.86, B2=9.07, B3=11.49; 37 C, 0.15 M, K1=4.87, B2=8.96,B3=11.25
DH(K1)=-11.5, DH(B2)=-24.5 kJ mol-1. IUPAC evaluation
```

Zn++	gl	KNO3	37°C	0.15M	C	M	K1=4.96 B2= 9.16 1990KKc (21252) 75 B3=11.86 B(ZnH-1L)=-3.28 B(ZnHL(imidazole))=14.30 B(ZnL(imidazole)3)=12.44
Zn++ A: imidaz	J	KNO3	37°C	0.15M	U	M	K1=4.96 B2= 9.16 1990KKc (21253) 75 B3=11.86 B(ZnH-1L)=-3.28 B(ZnA3L)=12.44 B(ZnHAL)=14.30
		NaNO2	2500	0 10M			K1=5.90 1989GAb (21254) 752
Zn++	gl	KNO3	35°C	0.20M	U	М	K1=4.86 B2=8.99 1989RVa (21255) 75 K(ZnA+L)=4.40
A=bis(imi		• •					
Zn++	gl	NaClO4	21°C	0.10M	M		K1=5.02 1989WLa (21256) 754 B(ZnH-1L)=-2.35
							K1=5.22 B2= 9.59 1988PPc (21257) 75
				0.2011		, ,	
A is 2,2'	-dipy	ridylam:	ine. 				K(ZnA+L)=5.03
A is 2,2' Zn++	-dipy	ridylam: diox/w	ine. 30°C	50%	 C	 NaNO3	K(ZnA+L)=5.03 K1=5.71 B2=10.82 1987MSd (21258) 75
A is 2,2' Zn++ Medium: 5	-dipy	ridylam: diox/w v dioxau	ine. 30°C ne/H2C	50%), 0.2	 С М	 NaNO3	K(ZnA+L)=5.03 K1=5.71 B2=10.82 1987MSd (21258) 75 1986DHa (21259) 757 K(ZnA+L)=2.8
A is 2,2' Zn++ Medium: 5 Zn++	-dipy gl 60% v/v nmr	ridylam: diox/w v dioxam none	ine. 30°C ne/H2C 20°C	50%), 0.2 0.0	C M U	 NaNO3 	K(ZnA+L)=5.03 K1=5.71 B2=10.82 1987MSd (21258) 75 1986DHa (21259) 757 K(ZnA+L)=2.8 K(ZnA+HL)=0.7
A is 2,2' Zn++ Medium: 5 Zn++ In D2O. A	-dipy gl 60% v/v nmr	ridylam: diox/w v dioxam none	ine. 30°C ne/H2C 20°C	50% 0, 0.2 0.0	C M U	 NaNO3 	K(ZnA+L)=5.03 K1=5.71 B2=10.82 1987MSd (21258) 75 1986DHa (21259) 757 K(ZnA+L)=2.8
A is 2,2' Zn++ Medium: 5 Zn++ In D2O. A Zn++	-dipy gl 60% v/y nmr	ridylam: diox/w v dioxam none	ine. 30°C ne/H2C 20°C	50% 0, 0.2 0.0	C M U	 NaNO3 	K(ZnA+L)=5.03 K1=5.71 B2=10.82 1987MSd (21258) 75 1986DHa (21259) 757 K(ZnA+L)=2.8 K(ZnA+HL)=0.7 1986DHb (21260) 758 K(ZnA+L)=1.34
A is 2,2' Zn++ Medium: 5 Zn++ In D2O. A Zn++	-dipy gl 60% v/v nmr A = tr: nmr	ridylam: diox/w v dioxan none ien none	ine. 30°C ne/H2C 20°C	50% 0, 0.2 0.0	C M U	 NaNO3 	K(ZnA+L)=5.03 K1=5.71 B2=10.82 1987MSd (21258) 75 1986DHa (21259) 757 K(ZnA+L)=2.8 K(ZnA+HL)=0.7 1986DHb (21260) 758 K(ZnA+L)=1.34 K1=4.868 B2=8.74 1985CFb (21261) 75 B3=11.10 B(ZnH-1L)=-2.98
A is 2,2' Zn++ Medium: 5 Zn++ In D2O. A Zn++ In D2O. A Zn++	-dipy gl 60% v/v nmr A = tr: nmr A = tre gl	ridylam: diox/w v dioxan none ien none NaCl	ine 30°C ne/H2C 20°C	50% 0, 0.2 0.0 0.0	U U	 NaNO3 	K(ZnA+L)=5.03 K1=5.71 B2=10.82 1987MSd (21258) 75 1986DHa (21259) 757 K(ZnA+L)=2.8 K(ZnA+HL)=0.7 1986DHb (21260) 758 K(ZnA+L)=1.34 K1=4.868 B2=8.74 1985CFb (21261) 75 B3=11.10
A is 2,2' Zn++ Medium: 5 Zn++ In D2O. A Zn++ In D2O. A Zn++	-dipy gl 50% v/v nmr A = tr: nmr A = tre gl	ridylam: diox/w v dioxam none ien none NaCl	ine 30°C ne/H2C 20°C 37°C	50% 0, 0.2 0.0 0.0	U U	 NaNO3 	K(ZnA+L)=5.03 K1=5.71 B2=10.82 1987MSd (21258) 75 .

```
Zn++ gl KNO3 35°C 0.10M C M K1=5.22 1985RRc (21264) 762
                         K(Zn+HL+cytidine)=8.23
                         K(ZnL(cytidine)+H)=5.54
_____
Zn++ gl KNO3 35°C 0.10M C K1=5.22 1985RRh (21265) 763
______
Zn++ gl oth/un 30°C 0.20M U M K1=5.22 1984J0b (21266) 764
                        K(Zn(bpy)+L)=4.81
Medium: not stated.
Zn++ vlt KNO3 30°C 0.30M C M K1=4.75 B2= 8.50 1983APa (21267) 765
                         B3=10.30
                         B(ZnAL)=7.24
                         B(ZnAL2)=8.21
                         B(ZnA2L)=9.35
Method: polarography. Medium: 0.30 M KNO3, pH 8.0. H2A is oxalic acid.
B(Zn(en)L)=10.57, B(Zn(en)L2)=12.55, B(Zn(en)2L)=13.24
______
Zn++ oth NaCl04 35°C 0.10M C K1=5.85 B2= 8.53 1983PYa (21268) 766
                        B3=10.77
Method: paper electrophoresis.
______
Zn++ gl NaNO3 37°C 0.15M U M
                                   1982ESa (21269) 767
                         B(ZnLA) = 7.911
                         B(ZnHLAB)=24.560
                         B(ZnH2LAB)=31.020
A= Imidazole and B= Pyridoxamine.
______
Zn++ gl NaClO4 37°C 0.15M C M K1=4.832 B2= 8.93 1981ABe (21270) 768
                         B3=10.767
                         B(ZnHL)=10.073
                         B(ZnH-1L2)=-0.572
                         B(ZnAL)=10.623
B(ZnHAL)=16.576; B(ZnHBL)=19.922, B(ZnBL2)=16.166, B(ZnHBL2)=24.752,
B(ZnB2L)=19.747. HA=histidine, H2B=cysteine.
______
Zn++ gl NaNO3 30°C 0.20M C M K1=5.02 B2= 9.22 1981RSd (21271) 769
                         K(Zn(asp)+L)=4.29
                         B(Zn(asp)L)=10.08
H2asp is aspartic acid.
______
Zn++ gl NaNO3 30°C 0.20M C M
                                   1981RSe (21272) 770
                         B(Zn(ida)L)=10.97
                         K(Zn(ida)+L)=3.99
______
Zn++ gl KNO3 30°C 0.10M U M
                                   1980MSb (21273) 771
                     B(Zn(His)+L)=4.51
------
Zn++ gl NaClO4 25°C 1.00M C K1=5.05 B2=9.41 1979BJc (21274) 772
                        B3=12.1
```

```
Alternative method: Ion selective electrode
______
Zn++ gl diox/w 25°C 70% C I K1=7.19 B2=13.25 1979ZRa (21275) 773
                          K3=3.41
Data available for various media concentrations: 10 to 70% Dioxan (V/V).
-----
Zn++ gl R4N.X 25°C 0.10M C K1=5.03 B2=9.39 1979ZRa (21276) 774
                          K3 = 3.33
Medium: Et4NClO4
Zn++ gl KNO3 25°C 0.10M U M
                                    1978DOb (21277) 775
                          B(ZnL(His))=11.08
                          B(ZnL(Histamine))=9.92
                          B(ZnL2(His))=12.77
______
Zn++ gl NaNO3 20°C 0.10M U K1=4.69 B2=9.19 1978LEb (21278) 776
______
Zn++ gl KCl 25°C 0.20M U M T K1=4.84 B2=9.02 1978SKa (21279) 777
______
Zn++ gl NaClO4 37°C 0.15M U T K1=4.909 B2=8.997 1975CMa (21280) 778
                          B3=11.306
                          B(ZnHL) = 9.297
                          B(ZnH-1L)=-2.706
-----
Zn++ gl KNO3 25°C 0.10M C M T K1=4.96 B2=9.19 1975D0b (21281) 779
                          K3=2.46
                          B(ZnLbpy)=9.71
                          B(ZnL(bpy)2)=13.15
                          B(ZnL2bpy)=13.00
______
Zn++ gl KNO3 25°C 0.10M C T K1=4.93 B2=9.26 1975IPb (21282) 780
Zn++ gl NaCl04 30°C 0.20M U K1=5.22 B2=9.59 1975JBb (21283) 781
______
Zn++ gl NaNO3 25°C 0.20M U
                          K1=4.95 B2=9.08 1974FSa (21284) 782
                          B(ZnLA)=6.87
                          B(ZnLB)=6.90
                          B(ZnLC)=6.77
                          B(ZnLD)=6.48
A=succinyl dihydrazide; B=1,6-hexanedioic acid dihydrazide;
C=acetylhydrazide; D=Benzoyl hydrazide
                       Zn++ gl mixed 25°C 20% C I
                          K1=5.46 B2=9.82 1974MMa (21285) 783
                          K3 = 2.68
Medium: 20% DMF, 0.1M KNO3. Also data for 40%, 50%, 60%, 70%, 75%, 80% DMF
Zn++ gl NaClO4 25°C 0.10M C I T K1=5.19 B2=9.33 1974MMa (21286) 784
                         K3=2.73
Also data for 20%, 40%, 50%, 60%, 70%, 75%, 80% Dioxan, 0.1M NaClO4
```

```
Zn++ nmr oth/un 32°C 0.50M U K1=5.92 B2=10.05 1973HAb (21287) 785
35Cl probe
______
Zn++ gl KNO3 25°C 1.00M U M T K1=4.89 B2=9.07 1972BPa (21288) 786
                        B3=11.51
                        B(ZnL(NH3))=7.52
                        B(ZnL(NH3)2)=9.46
                        B(ZnL2(NH3))=10.85
                    -----
Zn++ gl none 25°C 0.00 U T T K1=5.38 B2=9.81 1972IJb (21289) 787
                        K3=2.52
10 C: K1=5.50, K2=4.57, K3=2.63; 40 C: K1=5.29, K2=4.29, K3=2.40
                     Zn++
      gl KNO3 25°C 0.10M U T M
                                 1972IVc (21290) 788
                        K(ZnA+L)=4.41
H2A=methyliminodiethanoic acid. 15 C: K=4.53; 50 C: 4.13
______
Zn++ cal KCl 25°C 0.05M U H T K1=5.06 B2=9.44 1971GNa (21291) 789
DH(K1)=-8.4 kJ mol-1, DS=67 J K-1 mol-1; DH(B2)=-13.3, DS=38
______
Zn++ gl NaCl04 25°C 0.10M U T K1=4.96 B2=9.19 1971GSb (21292) 790
______
Zn++ gl oth/un 25°C U K1=5.24 B2=9.65 1970CBb (21293) 791
______
Zn++ gl KCl 25°C 0.50M U T K1=4.85 B2=9.14 1970FEa (21294) 792
                       B3=11.81
______
Zn++ gl NaClO4 25°C 0.50M U I R K1=4.81 B2=9.00 1970FRa (21295) 793
                        K3 = 2.51
Medium: LiClO4. Other media: 54.3% MeOH, 0.5 M LiClO4: K1=5.38, K2=4.75,
K3=2.91; 48.1% dioxan, 0.5 M LiClO4: K1=5.71, K2=5.09, K3=3.21
_____
Zn++ gl KNO3 37°C 0.15M U
                       R K1=4.90 B2=9.01 1969CPc (21296) 794
                        B3=11.31
                        K(ZnL+H2O=Zn(OH)L+H)=-8.89
                        K(Zn+HL)=0.02
______
Zn++ gl KNO3 25°C 0.10M U K1=4.96 B2=9.20 1969GEb (21297) 795
-----
Zn++ gl KCl 25°C 0.50M U M R K1=4.88 B2=9.11 1968LBa (21298) 796
                        B3=11.56
Ternary complexes with NTA, salicylaldehyde, pyridoxal, solochrome violet R
-----
     cal NaClO4 25°C 0.10M U H
                                 1967BBd (21299) 797
DH(K1)=-14.2 kJ mol-1, DS=57.7 J K-1 mol-1
Zn++ cal KNO3 20°C 0.10M U H
                                 1967SS1 (21300) 798
DH(B2)=-25.1 kJ mol-1, DS=92.4 J K-1 mol-1
______
```

```
gl KCl 25°C 0.50M U
                     M T K1=4.88 B2=9.01 1966LHc (21301) 799
Zn++
                       B3=11.02
                       B(ZnAL)=7.60
                       B(ZnBL)=6.75
                       B(ZnAL2)=11.9
HA=pyruvic acid, HB=glyoxylic acid. B(ZnBL2)=10.7; B(ZnA2L2)=14.35;
B(ZnB2L2)=12.23
______
Zn++ gl KCl
           40°C 0.20M U T H K1=5.07 B2=9.14 1965SMb (21302) 800
K1=5.27(15 C), 5.19(25 C); K2=4.31(15 C), 4.21(25 C);
DH(K1)=-13.8 kJ mol-1, DS=54.3 J K-1 mol-1; DH(K2)=-16.7, DS=25.1
_____
Zn++
     oth KNO3 20°C 0.10M U
                      K1=5.9
                             B2=10.10 1964J0a (21303) 801
                       K3 = 3.1
Method: paper electrophoresis
        Zn++ gl KCl
           25°C 0.65M U T HM T K1=4.88 B2=9.01 1964LSa (21304) 802
                       B3=11.0
                       B(ZnAL)=7.53
                       B(ZnAL2)=12.0
                       B(ZnA2L2)=14.25
10 C: K1=4.96,B2=9.24,B3=11.9; 25 C: DH(K1)=-8.8 kJ mol-1,DH(B2)=-24.7.
DH(ZnAL)=-7.9, DH(ZnA2L2)=-31.4
______
    gl KNO3 25°C 0.15M U K1=5.42 B2=9.94 1955LMa (21305) 803
______
Zn++ gl KNO3 25°C 0.10M U K1=5.03 B2=9.30 1955MMa (21306) 804
______
Zn++ gl KCl 20°C 0.10M U T K1=5.16 B2=9.50 1954IRa (21307) 805
______
Zn++ gl oth/un 25°C 0.01M U K1=5.0 1954PEa (21308) 806
Zn++ gl diox/w 30°C 75% U
                      K1=8.3 B2=15.1 1954UFa (21309) 807
                      K3 = 3.80
-----
Zn++ gl oth/un 20°C 0.01M U K1=5.2 B2=14.5 1953ALa (21310) 808
______
Zn++ gl oth/un 22°C 0.01M U B2=9.2 1952PEa (21311) 809
Medium: ZnSO4
______
Zn++ gl oth/un 25°C ->0 U K1=5.52 B2=9.96 1951MOa (21312) 810
    gl oth/un 25°C 0.01M U K1=5.33 B2=9.72 1950MMa (21313) 811
______
     gl KNO3 20°C 0.50M U
                       K1=4.80 B2=8.94 1945FLa (21314) 812
                       K3=(2.56)
******************************
C2H5N02
                Acetohydroxamic CAS 546-88-3 (2766)
Acetohydroxamic acid, N-Hydroxyacetamide; CH3.CO.NHOH
______
```

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Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
             25°C 0.20M C M
Zn++ gl KCl
                                    2000FEa (21791) 813
                          B(Zn(en)L)=11.15
                          B(Zn(bpy)L)=10.65
                          B(Zn(gly)L)=9.78
                          B(Zn(tiron)L)=13.57
B(Zn(en)L2)=14.07, B(Zn(en)2L)=14.4, B(ZnH-1(en)L)=1.77, B(Zn(bpy)L2)=
14.3, B(Zn(bpy)2L)=14.93, B(ZnH-1(bpy)L)=2.08, B(Zn(gly)2L)=13.08
                      M K1=5.18 B2=9.45 1993FBa (21792) 814
Zn++
   gl KCl 25°C 0.20M C
                          B(ZnH-1L)=-3.40
                          B(ZnAL)=9.28
                          B(ZnAL2)=11.98
HA: alanine.
-----
Zn++ gl NaCl 31°C 0.15M U I K1=5.46 1992SKa (21793) 815
Also data for 25 and 50% v/v EtOH/H2O.
                       Zn++ gl KNO3 25°C 0.10M C M K1=5.22 B2= 9.09 1991DAc (21794) 816
                          K(Zn(ida)+L)=3.76
                          K(Zn(bpy)+L)=5.26
                          K(ZnA+L)=5.24
                          K(Zn(phen)+L)=5.40
K(ZnB+L)=5.66, K(ZnC+L)=5.13. A: 2,2'-dipyridylamine;
B: 5-nitro-1,10-phenanthroline; C: 5-methyl-1,10-phenanthroline.
______
     gl KNO3 25°C 0.10M C M K1=5.22 B2= 9.09 1989DAb (21795) 817
Zn++
                          B(Zn(ida)L)=11.00
                          B(Zn(mida)L)=11.32
                          B(Zn(nta)L)=14.16
                          B(Zn(bpy)L)=10.39
B(Zn(phen)L)=11.80, B(ZnAL)=11.85 where H3A is N-(2-carboxyphenyl)-
iminodiethanoic acid
_____
Zn++
      vlt KNO3
             30°C 0.50M C
                         K1=5.10
                                   1983BNa (21796) 818
Method: polarography.
***************************
                            CAS 2921-14-4 (1892)
Aminooxyethanoic acid; H2N.O.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
             25°C 0.50M U K1=2.90 1985WTa (21826) 819
Zn++ gl KNO3
*******************************
C2H5N3O2
               1
                  Biuret
                             CAS 108-19-0 (1126)
Carbomoylurea (Allophanic acid); H2N.CO.NH.CO.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
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```
Zn++ gl NaClO4 25°C 0.01M U T H K1=10.25 1979SBa (21845) 820
DH(K1) = -119 \text{ kJ mol} -1
_____
Zn++ gl NaClO4 25°C 0.01M U K1=10.25 1975SSb (21846) 821
********************************
                         CAS 590-54-5 (1764)
Acetylphosphoric acid; CH3.CO.O.PO3H2
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 37°C 0.15M M M K1=5.35 B2=8.79 1979SPb (21868) 822
                       K(Zn+HL)=2.63
Data for ternary complexes with Gly and His
*****************************
             L Glycinamide CAS 598-41-4 (60)
C2H6N20
2-Aminoethanoic acid amide; H2N.CH2.CO.NH2
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 37°C 0.15M U M K1=3.57 B2=6.18 1990NJa (21945) 823
                       B(ZnL(His))=8.32
                       B(ZnL(histamine))=8.17
                       B(ZnL(imidazole))=5.14
______
Zn++ gl oth/un 25°C 0.15M U K1=3.28 1958LCa (21946) 824
**************************
                Acethydrazide CAS 1068-57-1 (2566)
Ethanoic acid hydrazide, Acetylhydrazine; CH3.CO.NH.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.20M U K1=1.93 B2=3.42 1974FSa (21961) 825
Zn++ vlt NaClO4 25°C 1.0M U
                       K1=2.48 B2=3.65 1968SUa (21962) 826
                       B3=4.68
**********************************
                          CAS 5549-80-4 (833)
2-Amino-N-hydroxyacetamide, Glycine hydroxamic acid; H2N.CH2.CO.NH.OH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaCl 35°C 0.15M U I K1=5.85 B2=10.41 1995SKc (21984) 827
Also data for 42% v/v MeOH/H2O, 52% v/v EtOH/H2O, 59% v/v i-PrOH/H2O,
61% v/v dioxan/H20.
______
    gl NaClO4 25°C 0.10M C
                       K1=5.38 B2=10.07 1987PCa (21985) 828
Zn++
                       B(ZnHL)=12.40
                       B(ZnH-1L)=-1.46
                       B(Zn2L3)=19.45
********************************
```

```
C2H60S
                        CAS 60-24-2 (841)
            HL
2-Mercaptoethanol; HS.CH2.CH2.OH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
1974BHa (22053) 829
Zn++ cal KNO3 25°C 0.50M U H
                      B(Zn2L3)=18.32
                      B(Zn3L6)=38.625
                      B(Zn4L9)=57.81
                      B(Zn5L12)=77.18
B(Zn6L15)=95.92. DH(Zn6L15)=-280.3 kJ mol-1, DH(Zn3L6)=-154.4,
DH(Zn4L9) = -221.8, DH(Zn5L12) = -167.4
______
Zn++ gl KNO3 25°C 0.50M U
                               1971BPc (22054) 830
                      B(2Zn+3L)=18.32
                      B(3Zn+6L)=38.52
                      B(4Zn+9L)=57.80
                      B(5Zn+12L)=77.20
B(6Zn+15L)=95.92
               -----
Zn++ gl oth/un ? 0.0 U
                               1961AMa (22055) 831
                      B3=17.31
*******************************
                      CAS 75-18-3 (151)
Dimethyl sulfide; CH3.S.CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    nmr alc/w 34°C 50% C K1=-1.4 1980SSa (22184) 832
Also in D20, K1=-1.4
********************************
          L Ethylamine CAS 75-04-7 (156)
Ethylamine; CH3.CH2.NH2
____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.50M U M K1=2.30 B2=4.33 1971LLa (22253) 833
                      B3=6.0
                      B(ZnLA)=7.78
                      B(ZnL2A2)=14.9
HA=salicvlaldehvde
*******************************
      L Ethanolamine CAS 141-43-5 (1057)
C2H7N0
2-Aminoethanol; H2N.CH2.CH2.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    sp R4N.X 25°C 2.00M C I K1=2.70 B2=5.18 1983DBa (22358) 834
-----
Zn++ gl oth/un 25°C 0.10M U K1=2.41
                              1981HAa (22359) 835
```

Medium: 0	.1 M HOCH2CH		
Zn++	vlt NaNO3		B2=7.93 1975KMa (22360) 836 B3=9.18
Medium: Li	iNO3. In 40%	6 EtOH/H2O, B3=9.72	55-5.10
			B2=7.93 1974MKc (22361) 837 B3=9.18 B(ZnL2(en))=12.11 B(ZnL(en)2)=13.13
		B2=8.15, B3=9.13	
			K1=2.62 B2=4.83 1970URa (22362) 838 K3=1.84
Zn++	gl oth/ur	1 25°C 0.10M U	K1=3.7 B2=6.00 1965DOb (22363) 839 K3=1.9 K4=1.5
			B2=12.30 1962MSa (22364) 840 B3=13.30 B4=13.72
	=	94%:B2=11.85,B3=12	.00,B3=9.48; 20%:B2=8.95,B3=9.78;
		25°C 0.10M U	1959MPa (22365) 841 B4=9.2
C2H7NS		**************************************	CAS 60-23-1 (588)
Metal	Mtd Medium		s Lg K values Reference ExptNo
Zn++	gl KCl		K1=8.77 B2=15.72 1995LMa (22466) 842 B(ZnH-1L)=1.94
Zn++	gl KNO3	25°C 0.20M C	1992AHa (22467) 843 K(Zn+2HL)=9.10 *K(Zn(HL)2)=-5.80 K(ZnHL2+HL)=3.78 *K(ZnHL2)=-7.15
Zn++	gl KNO3	25°C 0.10M M M	1989SHd (22468) 844 K(Zn(nta)+L)=5.56 K(Zn(nta)+H+L)=13.99
 Zn++	vlt oth/ur		K(Zn(nta)+L)=5.56

K(Zn+HL)=3.98

						_ `					_
Zn++	gl	KNO3	25°C 0	.15M U		K1=9.90	B2=18	.74 19	55LMa	(22471)	84
 Zn++ *******						******	*****	*****	*****		
C2H7N3O 2-Aminoace	tami	doxime;	L H2N.CH2	2.C(:NO	H)NH2	CAS	67015-0!	5-8 (2	702)		
Metal	Mtd	Medium	Temp Co	onc Cal	Flags	Lg K val	ues	Refe	rence	ExptNo	-
Zn++	J				E	K1=4.09 33=9.46 3(ZnH-1L2)=-0.89				
******** C2H7O3P Ethylphosp			H2L		*****		****** 71778-99			******	k
Metal	Mtd	Medium	Temp Co	onc Cal	Flags	Lg K val	ues	Refe	rence	ExptNo	•
Zn++ ********* C2H8NO3P 1-Aminoeth	****	*****	****** H2L	******	*****	******** CAS		*****	*****	•	- k
Metal	Mtd	Medium	Temp Co	onc Cal	Flags	Lg K val	ues	Refe	rence	ExptNo	-
zn++	gl	KCl	25°C 0	.20M C		K1=5.66 B(ZnHL)=1		L998KMa	(2260	95) 851	-
 Zn++	gl	KC1	25°C 0	.20M C		K1=5.99 G(ZnHL)=1		1987KBb	(2260	96) 852	-
 Zn++ ******					ŀ	K1=5.67 ((Zn+HL)=	1.70		•	•	-
C2H8NO3P 2-Aminoeth			H2L			CAS	2041-14			****	•
Metal	Mtd	Medium	Temp Co	onc Cal	Flags	•	ues			-	-
zn++					E		B2=10 2.93	.94 19	87KBb	(22625)	-) 85
 Zn++					E E		2.99 =26.2				-

K(Zn+HL)=1.96

********* C2H8NO4P 2-Aminoeth			H2L			cid; H	CAS 12N.CH2.CH	*********** 1071-23-4 H2.OPO3H2	(1864)		
Metal	Mtd	Medium	Temp	Conc		Flags		lues F			
Zn++	gl	KCl	20°C	0.10M	U			1987 =2.77	BPb (2265	54) 857	
Zn++				0.20M				1978	BMAb (2265	55) 858	
Zn++	gl	KNO3	25°C			****	K(Zn+HL)=		BMAc (2265	·	
C2H8N2 1,2-Diamir	noetha		L N.CH2.	Eth _i CH2.NI	yle H2	nediar	nine CAS	107-15-7 ([23)		
					Cal	Flags		lues F			
Zn++	gl	alc/w	25°C	50%				1997	'MGb (2298	33) 860	
Zn++	gl	NaClO4	25°C	0.20M	M			1996	SVBa (2298	34) 861	
Zn++	gl	KNO3	30°C	0.10M	U			1994	IRSa (2298	35) 862	
Zn++	gl	KCl	25°C	0.20M			K1=5.60 B3=13.01	B2=10.26	1993KKb	(22986)	863
Medium: 0.	.3 M N	NaC104 :	in 0.5	5 mol	U par	ts DMS	K1=6.89 K3=4.3 For 100% For 100% For 100%	B2=13.44 H20 K2=2.46 H20 K1=5.84 H2) K3=0.9)	(22987)	864
for 0.97 m							; K3=4.8				
DH(Zn(IDA))+L)=-		J mol-	-1		HM		1989	9KCa (2298	·	
								B2=10.62			866
Medium: NH DH(B2)=-46					DH	(K1)=	-24.48 kJ	mol-1,			
		KNO3					K1=5.54 K(Zn(thio	1989 odipropanoat	RSb (2299	•	
Zn++								B2=10.17	1989RVa	(22991)	868

K(ZnA+L)=4.71

A=bis(imid	lazol	-2-y1)m	ethan	e			
Zn++	nmr	none	20°C	0.0	U		1986DHa (22992) 869 K(ZnA+L)=2.7 K(ZnA+HL)=0.6
In D2O. A	= tr	ien					K(ZHATHL)-0.0
Zn++	nmr	none	20°C	0.0			1986DHb (22993) 870 K(ZnA+L)=1.26
In D2O. A							K(ZHATL)-1.20
							K1=6.10 1985SNa (22994) 871 K1=6.32 by spectrophotometry
							K1=6.49 B2=12.44 1985WIa (22995) 872 B3=14.88 (Zn/Hg electrode) B(ZnHL)=1.03 B(ZnL2H)=7.47 B(ZnL3H)=12.81
Additinona	l me	thod: Z	n(Hg) 	elect 	roc 		
							1984MSb (22996) 873 K(Zn(thiolactate)+L)=4.40
	gl	none			С	TIH	R K1=5.77 B2=10.83 1984PAa (22997) 874
					С		K1=6.20 B2=11.65 1983APa (22998) 875 B3=13.74
							3, pH 8.0.
							K1=5.98 1982KJa (22999) 876 K(Zn2(CDTA)+2L)=11.81
Zn++	gl	NaNO3					
Zn++	gl	NaNO3	20°C	2.00M	U		K1=6.23 B2=10.00 1982SSg (23001) 878 B3=13.35 B(ZnHL)=12.92 B(ZnH2L2)=26.26 B(ZnH3L3)=39.0
Zn++	gl	NaNO3	30°C	0.20M	C	M	K1=5.92 B2=10.82 1981RSd (23002) 879 K(Zn(asp)+L)=5.32 B(Zn(asp)L)=11.11
H2asp is a	spar	tic aci	d.				5(2(u3p)-)-11.11
Zn++	gl	NaNO3	30°C	0.20M	C	M	1981RSe (23003) 880

B(Zn(ida)L)=12.17 K(Zn(ida)+L)=5.19

								_,			
	•						K1=5.78			•	881
	gl K	C1	25°C		U	М	K1=5.78	B2=10.73	1978SKa	(23005)	882
	vlt N	laNO3	25°C		U	I	B2=12.78 B3=14.52				
 Zn++	vlt c	oth/un	25°C	0.10M			B2=12.78 B3=14.52		MKc (2300	97) 884	
	J						K1=5.91 K3=2.10	B2=10.72			885
	TOR 55	0%, 60% 	6, 65% 	· ·	, /: 	5%, 86 	0% MeOH, 0.				
Zn++	gl m	nixed	25°C	20%	С	Ι	K1=6.18 K3=2.28	B2=11.22	1974MMa	(23009)	886
Medium: 2	0% DMF,	0.1M	KNO3.	Also	da		40%, 50%,				
Zn++	gl N	laC104	25°C	0.10M	С		K1=5.85 K3=1.94				887
Also data	for 20	%, 40%	% , 50%	60%	, 7	0%, 7	5%, 80% Dio	xan, 0.1M	NaClO4		
Zn++	gl N	laC104	30°C						PBb (2301	11) 888	
				0.10M	U		K1=5.59 K3=3.78				889
Zn++	gl K	(NO3	25°C		U		K2=5.15	1970	DNa (2301	L3) 890	
	gl N iClO4.	laC104 Other	25°C medi	a: 54	U .3%	I MeOH	K1=5.75 , 0.5 M LiC	B2=10.84	1970FRa	(23014)	891
Zn++ A=histami		(NO3	37°C	0.15M	U	M	K1=5.53 B3=12.70 B(ZnLA)=10 B(ZnL(Ser) B(ZnL(Ser)	.37)=9.86	1969PSb	(23015)	892
		-		100%	U		K1=7.18 B3=18.70	B2=13.85	1969PSd	(23016)	893
Medium: D	MSO, 0.	1 M K	2104								
Zn++	gl d	liox/w	30°C	50%	U		K1=6.30	B2=11.51	1968H0a	(23017)	894

```
Constants corrected to zero ionic strength
______
     vlt KCl 30°C 0.50M U M B2=11.2
                                1967SSk (23018) 895
                       B3=12.3
Ternary complexes with oxalic acid
Zn++ cal KCl 25°C 1.0M U H
                                1960CPa (23019) 896
DG(K1)=-33.02, DH=-27.8, DS=18; DG(B2)=-60.19, DH=-58.26, DS=9.2;
DG(B3)=-70.22, DH=-86.6, DS=-55
Zn++ gl none 10°C 0.0 U T K1=5.85 B2=10.98 1959MBa (23020) 897
                        K3=3.26
20 C: K1=5.77, K2=5.06, K3=3.28; 30 C: K1=5.55, K2=4.89, K3=3.22;
40 C: K1=5.51, K2=4.76, K3=3.18
    gl oth/un 10°C ->0 U T H
                                 1959MBa (23021) 898
10-40 C: DG(K)=-31.76 kJ mol-1, DH=-21, DS=38; DG(K2)=-27.59, DH=-22, DS=-21
______
Zn++ gl oth/un 25°C 1.40M U
                     K1=5.92 B2=11.07 1957PBa (23022) 899
                       K3=1.86
-----
Zn++ vlt oth/un 25°C 0.10M U
                       K1=5.71 B2=10.37 1956MOa (23023) 900
                       K3=1.72
______
     oth oth/un 25°C 1.0M U H
                                 1956RAa (23024) 901
DS(Zn(NH3)4+2L=ZnL2+4NH3)=88
______
    vlt KNO3 25°C 0.10M U
                       B2=13.65 1955NMa (23025) 902
                      K3=0.83
     gl KNO3 25°C 0.50M U
                       K1=6.00 B2=11.08 1955NMa (23026) 903
                       K3 = 2.07
______
Zn++ ISE KNO3 25°C 0.50M U
                       K1=6.00 B2=10.81 1955NMa (23027) 904
                       K3=2.17
______
     cal KCl 25°C 0.10M U H
                                 1954DSa (23028) 905
DH(B2)=-48.1 kJ mol-1, DS=31.8 J K-1 mol-1; DH(B3)=-77.3, DS=41.0
______
Zn++ gl diox/w 30°C 75% U K1=6.8
                             1954UFa (23029) 906
______
Zn++ gl oth/un 30°C ->0 U K1=5.56 B2=10.43 1953MCa (23030) 907
______
Zn++ gl KNO3 25°C 2.15M U H K1=6.15 B2=11.49 1953SPb (23031) 908
DH(K1)=-28 \text{ kJ mol}-1, DH(B2)=-52.3
______
Zn++ gl KNO3 25°C 1.0M U
                       K1=5.92 B2=11.07 1945BAa (23032) 909
                       K3=1.86
-----
Zn++ gl KCl 30°C 1.0M U K1=5.71 B2=10.37 1945CMa (23033) 910
```

```
**********************************
                              CAS 35771-42-7 (4227)
S-Methylisothiocarbohydrazide; H2N.N:C(S.CH3).NH.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
             25°C 0.50M U K1=4.27 B2=7.62 1972BMc (23250) 911
Zn++ gl KCl
******************************
C2H807P2
              H4L
                  HEDPA
                              CAS 2809-21-4 (436)
1-Hydroxyethane-1,1-diphosphonic acid; CH3.C(OH)(PO3H2)2
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=10.3
                                    1997DBb (23314) 912
                          K(ZnL+H)=6.27
                           K(ZnHL+H)=3.8
______
Zn++ vlt NaCl 37°C 0.15M C
                           K1=10.30
                                     1997ZJa (23315) 913
                           K(ZnL+2H)=9.88
                           K(ZnH2L+2H)=5.50
                           K(ZnL+Zn)=6.16
                           K(ZnL+OH)=4.93
Also estimat.via linear free energy relationship K(Sm+L)=10.1;K(SmL+H)=9.1
K(Ho+L)=10.4; K(HoL+H)=9.1
_____
Zn++
     gl KNO3 25°C 0.10M U
                          K1=8.6
                                    1995DSa (23316) 914
                           B(ZnHL)=8
                           B(ZnH2L)=17
                           B(Zn(OH))=6.1
                           B(Zn(OH)2)=9.9
Zn++ cal R4N.X 25°C 0.04M U T H
                                     1995VKa (23317) 915
                           K(2Zn+HL)=8.6
                           K(Zn+ZnHL)=2.6
                           B(Zn2L)=16.0
                           K(Zn+ZnL)=5.2
Medium: Bu4NNO3. Also at 15,35 C. DH(2Zn+HL)=14.8 kJ mol-1, DS=214 J K-1 m-1
DH(Zn+ZnHL)=0.8, DS=52; DH(2Zn+L)=30.5, DS=409; DH(Zn+ZnL)=29.8, DS=200
______
      cal oth/un 25°C 0.02M U TI
                                     1987VKb (23318) 916
Zn++
                           K1=10.8
                           K(Zn+HL)=6.0
                           K(Zn+H2L)=2.85
DH(K1)=0.7 \text{ kJ mol-1}, DS=209 \text{ J K-1 mol-1}; DH(Zn+HL)=14.0,
DS=162; DH(Zn+H2L)=7.1, DS=70
       gl KNO3 25°C 0.10M U
                          K1=7.36
                                    1980ZRc (23319) 917
                          K(Zn+HL)=4.51
                          K(Zn+H2L)=3.10
______
```

```
gl KCl 25°C 0.10M U
Zn++
                      K1=8.19
                              1976DGe (23320) 918
                      K(Zn+HL)=5.00
-----
     gl KCl
Zn++
           25°C 0.10M U
                      K1=10.73
                              1967KLa (23321) 919
                      K(Zn+HL)=5.66
                      K(2Zn+H-1L))=22.36
                      K(2Zn+L)=15.03
                      K(2Zn+HL)=8.13
*****************************
               IDPA
                        CAS 32545-63-4 (1335)
Imino-N,N-bis(methylenephosphonic acid); HN(CH2PO3H2)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                     K1=9.03
                              1985MMa (23441) 920
Zn++
     gl KNO3 25°C 0.1M C
                      B(ZnHL)=15.52
                      B(ZnH2L)=18.9
********************************
                         (231)
C2H16N5O4Co
Pentaammineoxalatocobalt(III); Co(NH3)5(HC2O4)
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
______
Zn++ sp NaClO4 28°C 0.30M U K1=1.81 1974NDa (23470) 921
Cyanoacetic CAS 372-09-8 (38)
Cyanoethanoic acid; NC.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl NaCl04 25°C 2.0M U K1=0.50 1981MFa (23507) 922
*******************************
               Isothiazole
                       CAS 288-16-4 (383)
Isothiazole; cyclo(-S.N:CH.CH:CH-) C3H3NS
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=0.36 1978KLa (23516) 923
*******************************
                        CAS 288-47-1 (382)
               Thiazole
Thiazole; cyclo(-S.CH:N.CH:CH-) C3H3NS
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 25°C 0.50M U
                     K1=1.20 B2=1.99 1974LKb (23524) 924
                      B3=2.38
*****************************
               Pyrazole CAS 288-13-1 (367)
C3H4N2
1,2-Diazole, pyrazole; cyclo(-NH.N:CH.CH:CH-)
```

Metal	Mtd	Medium	Temp	Conc C	al Flag	gs Lg K val	ues	Reference	ExptNo	
Zn++	gl	KNO3	25°C	0.50M	U	K1=0.95	B2=1.53	1977BBb	(23556)	925
Zn++	gl	KNO3	25°C	0.50M	U	K1=1.38 B3=3.10 B4=3.43	B2=2.43	1977LNa	(23557)	926
*******	****	*****	****	*****	*****	******	******	********	*****	
C3H4N2 1,3-Diazol	le, i	midazol	L e; C3H		azole	CAS	288-32-4	(90)		
Metal	Mtd	Medium	Temp	Conc C	al Fla	gs Lg K val	ues	Reference	ExptNo	
Zn++	gl	NaClO4	25°C	0.10M	U	K1=2.53	200	01PSb (2374	16) 927	
					C M	K1=2.69 B(ZnAL)=3		99DSb (2374	17) 928	
A is thiam	ine	hydroch	loride	2.						
Zn++	gl	NaClO4	30°C	0.20M	U	K1=2.53	199	99PGa (2374	18) 929	
Zn++	gl	NaNO3	30°C	0.20M	U	K1=2.48	199	99PPa (2374	19) 930	
Zn++	gl	NaNO3	25°C	0.50M	M	K1=2.58	199	98KSa (2375	50) 931	
Zn++	gl	NaNO3	25°C	0.10M	U M	K1=2.97	199	98MSe (2375	51) 932	
Zn++	sp	non-aq	25°C	100%	с н	K(ZnP+L)=		98RZa (2375	52) 933	
						meso-tetra(Data for	3-methylp			
Zn++	gl	NaNO3	37°C	0.10M	U	K1=2.54	199	97MGa (2375	53) 934	
Zn++	gl	KNO3	35°C	0.10M	С М	K1=2.74 K(ZnL+A)=		97PSb (2375	54) 935	
H2A is thi	lamin	e ortho	phospl	noric a	cid.	K(ZIILTA)	0.00			
Zn++	gl	KCl	25°C	0.10M	C TIH	R K1=2.56 K3=2.23 K4=2.03	B2=4.93	1997SJa	(23755)	936
IUPAC eval I=0: K1=2.		•	•				91, 2.01			
Zn++	gl	KNO3	25°C	0.10M	C H	K1=2.28 K3=2.26	B2=4.91	1994AIa	(23756)	937
DS(K3)=-16	5.7 J	K-1 mo	1-1.			kJ mol-1.				
		NaNO3				K1=2.54				

Data for ternary complexes with 6-aminopenicillanic acid	
Zn++ gl NaNO3 25°C 0.10M M M K1=2.50 1993JCa (237 K(ZnA+L)=2.81	58) 939
HA=N,N-bis(2-hydroxyethyl)glycine (bicine)	
Zn++ gl KNO3 35°C 0.10M U M K1=2.55 1991RSb (237 B(Zn(Cys)L)=13.60 B(Zn(Cys)L2)=17.10	59) 940
Zn++ gl KNO3 37°C 0.15M C M K1=2.29 B2= 4.95 1990KKc B4=9.06 Data for ternary complexes with gly, ala and val.	(23760) 941
Zn++ gl KNO3 37°C 0.15M U K1=2.29 B2= 4.95 1990KKc B4=9.06	
Zn++ dis oth/un 25°C 0.00 U K1=7.64 1987WCa (237	
Zn++ gl NaNO3 37°C 0.15M U K1=2.982 B2=5.632 1983ERa	(23763) 944
Zn++ gl NaNO3 37°C 0.10M U M 1983ERa (237 B(ZnL(Gly))=7.911 B(ZnL4(Gly))=16.693	64) 945
Zn++ gl KNO3 25°C 0.50M U K1=2.70 B2=5.25 1983LWa B3=7.48 B4=9.48 B5=11.00	(23765) 946
Zn++ sp non-aq 25°C 100% U TIH 1982CFa (237 K(ZnA+L)=4.92 Medium: BuCl. A=tetraphenylporphyrin. Also in PhCl	66) 947
Zn++ gl NaClO4 37°C 0.15M U M K1=2.55 B2=4.98 1982NVa B3=7.40 B4=9.59 B(ZnL(histamine))=8.25 B(ZnL(His))=9.50	(23767) 948
Zn++ gl NaNO3 25°C 0.10M A M 1982SSa (237 K(Zn(ATP)+L)=2.41	68) 949
Zn++ gl NaNO3 25°C 0.10M A M K1=2.51 1982SSa (237 K(Zn(ATP)+L)=2.41 K(ZnA+L)=2.54 A=uridine-5'-triphosphate	69) 950
Zn++ gl NaClO4 37°C 0.15M C K1=2.185 B2= 4.40 1979KBf B3=6.877	(23770) 951

B4=8.651

							84=8.651	
B(p,q,r):	pH+q	Zn+rHL=	Hp(Zn)			I M	K1=2.92 B2=4.93 1977F0a (23771) 95 B3=8.77 B4=11.41 B(-4,1,3)=-22.97 B(-4,2,3)=-20.94	52
Data also	in 3	.0M NaC	1 					
Zn++ K(ZnCl+5L)	C					ΙM	1977FOb (23772) 953 K(ZnCl+L)=3.64 K(ZnCl+2L)=6.16 K(ZnCl+3L)=9.77 K(ZnCl+4L)=11.15	
Zn++	gl	NaClO4	25°C	0.50M	С	TIH	K1=2.618 1974LVa (23773) 954 B3=7.596 B4=10.041	
Zn++	ISE	R4N.X	29°C	0.50M	U		K1=2.56 B2=4.89 1971BLb (23774) 95 B3=7.16 B4=9.19	55
Medium: NH	14NO3							
Zn++	gl	NaClO4	25°C	0.10M	U	M	K1=2.60 1968ISa (23775) 956 K(Zn(NTA)+L)=2.73 K(Zn(EDTA)+L)=1.79	
Zn++ Medium: DM		·				 М	1966WLa (23776) 957 B4=6.2 K(ZnAL+3L=ZnL4+A)=4.5 K(ZnL+B)=1.23	
							V1_2 12 1062CCh (22777) 059	
							K1=2.13 1963CCb (23777) 958	
25 C: K1=3	3.15,	K2=2.9	5; 45	C: K1	=3.	20, K	K1=3.36 B2=6.42 1961SMa (23778) 95 2=2.84	59
	gl	oth/un	25°C	0.16M	U		K1=2.52 B2=4.84 1958KKc (23779) 96 K3=2.32 K4=2.05	50
Zn++							K1=2.57 B2=4.93 1957NGa (23780) 96 K3=2.22 K4=2.01	51
Zn++	gl	NaNO3	4°C	0.16M	U	T	K1=2.76 B2=5.26 1954EFa (23781) 96	52

```
24 C: K1=2.58, K2=2.37, K3=2.23, K4=2.02
*********************************
                         CAS 461-72-3 (389)
C3H4N2O2
                Hydantoin
2,4-Imidazolidinedione;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 25°C 0.50M U H K1=3.09
                              B2= 5.55 1979BEc (23942) 963
                       B3=8.80
By calorimetry: DH(K1)=-8.2 \text{ kJ mol-1}, DS(K1)=31 \text{ J K-1 mol-1};
DH(B2)=-17, DS(B2)=50; DH(B3)=-27, DS(B3)=77.
*****************************
             L
C3H4N2S
                         CAS 95-50-4 (821)
2-Aminothiazole; C3H2NS.NH2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=0.74 B2=1.24 1982GKa (23956) 964
______
Zn++ gl KNO3 25°C 0.10M U T H K1=1.76 1978BBd (23957) 965
Data for 30, 35 and 40 C. DH(K1)=-15 kJ mol-1, DS(K1)=-17 J K-1 mol-1.
********************************
             HL Imidazolethiol CAS 872-35-5 (1823)
C3H4N2S
2-Mercaptoimidazole; C3H3N2.SH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl NaClO4 25°C 0.10M U K1=6.61 1977STc (23967) 966
*******************************
                Pyruvic acid CAS 127-17-3 (1152)
             HL
2-Oxopropanoic acid; CH3.CO.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl04 25°C 2.00M U K1=0.72 B2=0.54 1980MKb (24030) 967
______
Zn++ gl KCl
           25°C 0.50M U M
                                 1970SFb (24031) 968
                       B(ZnL(Ala))=7.09
                       B(ZnL2(Ala))=11.08
                       B(ZnL2(Ala)2)=13.28
                       B(ZnL(Glu))=6.97
B(ZnL2(Glu))=10.64; B(ZnL2(Glu)2)=12.38
______
            25°C 0.50M U M K1=1.26 B2=1.98
Zn++
      sol KCl
                                    1966LHb (24032) 969
Ternary complexes with glycine, b-alanine, isoleucine, alanine
______
    gl KCl
            25°C 0.65M U T K1=1.28
                                1964LSa (24033) 970
At 10 C: K1=0.90
```

******** C3H4O4 Propanedio			H2L	Malo H)2	onio	acio	**************************************
Metal	Mtd	Medium	Temp				s Lg K values Reference ExptNo
Zn++ H2A is thi							K1=2.82 1997PSb (24292) 971 K(ZnL+A)=4.63
 Zn++	vlt	oth/un	25°C	0.1M	 U		K1=3.0 1995FFa (24293) 972
 Zn++	gl	NaCl	25°C	0.50M	 C		K1=2.38 1989FRa (24294) 973
Zn++	gl	 NaC104	37°C	0.15M	 С		K1=2.740 B2= 4.46 1987BVa (24295) 974 B(Zn2L2)=7.306 B(Zn(histamine)L)=7.627 B(ZnH(histamine)L)=13.792
Zn++	gl	NaNO3	30°C	0.20M	C		K1=2.69 1981RSd (24296) 975 K(Zn(asp)+L)=2.01 B(Zn(asp)L)=7.80
H2asp is a	spar	tic aci	d. 				
Zn++	gl	NaNO3	30°C	0.20M	С	М	<pre>K1=2.69</pre>
Zn++	ix	none	23°C	0.0	U		K1=2.75 B2=4.37 1980PSb (24298) 977
Zn++	gl	diox/w	25°C	50%	C	I	K1=5.57 B2=9.11 1978RZa (24299) 978 K3=2.8
Data avail	.able	for 10	to 50	0% v∕v	dic	oxan/F	
							K1=2.637 1976MTa (24300) 979 B3=5.786 B(ZnHL)=5.85 B(ZnHL3)=10.62 B(ZnH-1L3)=-0.98
B(ZnHL3)=1	.4 . 70	, B(Zn2	L2)=7 	.26, B	•	•	=10.92
							K1=2.85 1975DOc (24301) 980 B(Zn(bpy)2L)=7.95
Zn++	vlt	NaClO4	25°C	1.00M	U		1975TQa (24302) 981 K(Zn+HL)=0.59
							K1=2.47 B2=3.80 1974MSc (24303) 982
Zn++	gl	NaC104	25°C	0.10M	U		K1=2.95 19700Va (24304) 983

Zn++	gl K	(NO3	25°C	0.10M	U		K1=2	2.97	B2=4.	45	1969F	PJb	(24305)	984
Zn++	gl N	NaC104	25°C	0.10M	U			.95 HL)=0		19680	Va (2	2430	6) 985	•
Zn++	dis c	oth/un	25°C	0.0	U		K1=3	8.85	B2=5.	.95	1966F	RMb	(24307)	986
Zn++ Method: H						ŀ	K1=8.	89-0.6)415T+	-0.000	09187	Γ^(2)	
Zn++	gl N	NaC104	20°C	0.10M	U			.97 HL)=1		1963C	:Aa (2	2430	 9) 988	
Zn++	gl c	oth/un	25°C	0.10M	U		K1=2	2.7		1960Y	Ya (2	2431	0) 989	
Zn++ Medium: 20		-	25°C	20%	U		K1=4	.40		1951J	Aa (2	2431	1) 990	
Zn++	EMF K	(C1	25°C	0.20M			K(Zn+	HL)=0.	.84	19380	·		•	
Zn++	con c	oth/un	25°C	->0			K1=3	.68		1932M	IDa (2	2431	3) 992	
Zn++	con c	oth/un	25°C	.001M	U					1931I	Rb (2	2431	4) 993	
Zn++ *******														
C3H4O5 Hydroxypro			H2L	Tar	tror	nic ac						.	ጥ ጥ ጥ ጥ ጥ ጥ ጥ	•
Metal	Mtd M	1edium	Temp	Conc	Cal	Flags	Lg K	value	2S	Re	ferer	nce	ExptNo	•
Zn++		NaC104					K(Zn+	3.22 HL)=1	.91		•		9) 995	•
********* C3H5NO2S2 N-(Dithioc			H2L					CAS 29	9596-8				*****	:
Metal	Mtd M	1edium	Temp	Conc	Cal	Flags	Lg K	value	es	Re	ferer	nce	ExptNo	'
Zn++						E	B3=8.	9					(24656)	
**************************************			H2L	Ami	noma	alonic	ac						*****	•
Metal	Mtd M	 1edium 	Temp	Conc	cal	Flags	Lg K	value	es	Re	ferer	nce	 ExptNo 	

```
EMF oth/un 20°C ->0 U K1=6.48 1945SKa (24667) 997
Zn++
Method: H electrode
*********************************
                         CAS 108-33-8 (1428)
2-Amino-5-methyl-1,3,4-thiadiazole; C2N2S(NH2)(CH3)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.50M U K1=0.70 1982GLa (24681) 998
********************
                         CAS 17467-35-5 (1425)
5-Amino-3-methyl-1,2,4-thiadiazole; C2N2S(NH2)(CH3)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.50M U K1=0.23 1982GLa (24687) 999
**************************
                3-Br-propionic CAS 590-92-1 (1314)
C3H5O2Br
            HL
3-Bromopropanoic acid; Br.CH2.CH2.COOH
  .....
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 0.10M U K1=1.98 1969GPb (24704)1000
0.1 M NaClO4 in 50% dioxane/H2O
************************************
                         CAS 107-94-8 (1436)
3-Chloropropanoic acid; Cl.CH2.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 0.10M U
                    K1=2.17
                              1969GPb (24726)1001
0.1 M NaClO4 in 50% dioxane/H2O
Zn++ gl diox/w 25°C 50% U K1=2.17 1969SGa (24727)1002
Medium: 50% dioxan, 0.1 M NaClO4
********************************
C3H502F
3-Fluoropropanoic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl diox/w 25°C 0.10M U K1=1.99 1969GPb (24741)1003
0.1 M NaClO4 in 50% dioxane/H2O
********************************
            HL 3-I-Propionic CAS 141-76-4 (1315)
3-Iodopropanoic acid; I.CH2.CH2.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 0.10M U K1=2.04
                              1969GPb (24748)1004
```

```
0.1 M NaClO4 in 50% dioxane/H2O
*********************************
                Propylene
                         CAS 115-07-1 (702)
Propene; CH3.CH:CH2
-----
    Mtd Medium Temp Conc Cal Flags Lg K values
-----
     dis none 40°C 0.0 U T K1=-2.0
                               1984DWa (24751)1005
**********************
C3H6N02C1
                           (8169)
3-Chloroalanine:
          Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++
     gl KNO3 25°C 0.10M C K1=4.63 B2= 8.65 1981TMe (24758)1006
                       B3=10.9
Also data for the schiff based formed with pyridoxal.
**********************************
               D-Cycloserine CAS 68-41-7 (907)
D-4-Amino-1,2-oxazolidine-3-one;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       K1=1.00 B2=2.11 1983GWa (24788)1007
Zn++ gl KNO3 25°C 0.50M U
                       B3=3.36
                       B4=4.36
                       B5=4.49
______
Zn++ gl KCl 25°C 0.10M U
                       K1=1.71
                             1981BDb (24789)1008
                       K(Zn+H-1L)=3.43
                      K(Zn+2H-1L)=6.09
Zn++ gl oth/un 25°C 0.01M U B2=6.0 1956NEb (24790)1009
*******************************
C3H6N2S
                         CAS 1779-81-3 (1400)
2-Amino-2-thiazoline; C3H4NS.NH2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl NaCl 37°C 0.15M U M K1=3.15
                                1982HFa (24829)1010
                       B(ZnL(Ala))=7.25
      gl NaCl 37°C 0.15M C M K1=3.15
Zn++
                                1981HMa (24830)1011
                      B(ZnL(Ala))=7.25
*******************************
                        CAS 67-64-1 (1912)
C3H60
             L
                Acetone
Propan-2-one, acetone; CH3.CO.CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++
      cal non-aq 25°C 100% C IH
                                 2002LVa (24853)1012
                        K(ZnP+L)=1.82
Medium: CCl4. ZnP: Zn(II)tetraphenylporphyrine. DH(ZnP+L)=-2.89 kJ mol-1,
DS=25 J K-1 mol-1. Data for related ligands.
*************************
                Xanthic acid CAS 151-01-9 (590)
             HL
(Ethoxy)dithiomethanoic acid; CH3.CH20.CSSH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ vlt KNO3 25°C 0.40M C
                                 1984HSb (24867)1013
                       B3=8.93
Method: polarography.
         ______
Zn++ vlt oth/un 25°C 1.0M U
                                1967KHc (24868)1014
                       B3=4.63
Medium: LiCl
******************************
     HL
                Propionic acid CAS 79-09-4 (35)
Propanoic acid; CH3.CH2.COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     vlt NaClO4 25°C 1.0M C K1=2.58 B2= 3.98 1995KDa (24948)1015
Method: polarography. Medium pH 8.50.
______
Zn++
     oth NaClO4 25°C 2.0M U K1=0.99
                                 1990FTa (24949)1016
Methods: averaged results from potentiometric, polarographic and
spectrophotometric measurements.
______
Zn++ gl diox/w 25°C 50% C M K1=2.40 1985STb (24950)1017
                       K(Zn(phen)+L)=2.29
_____
     vlt oth/un 25°C 1.00M U
                     K1=0.4 B2=1.15 1971TRb (24951)1018
______
Zn++ sol oth/un 25°C 1.00M U K1=0.42 B2=1.29 1971TRb (24952)1019
______
Zn++ EMF NaClO4 25°C 2.00M U
                       K1=0.98 B2=0.96 1970FMa (24953)1020
                        B3=2.13
______
                       K1=2.41
                              1969GPb (24954)1021
      gl diox/w 25°C 0.10M U
0.1 M NaClO4 in 50% dioxane/H2O
______
Zn++ vlt NaClO4 25°C 2.00M U
                        K1=1.08 B2=1.18 1968FPa (24955)1022
                       B3=1.51
                       B4=1.36
Zn++ gl diox/w 25°C 50% U M K1=2.41 1968GPd (24956)1023
                        K(Zn(bpy)+L)=2.38
```

Medium: 50% dioxan, 0.1 M NaClO4

```
EMF KCl 20°C 0.20M U K1=1.01
                                  1938CKa (24957)1024
Zn++
Method: H electrode
***********************************
             H2L Thiolactic acid CAS 79-42-5 (366)
2-Mercaptopropanoic acid; CH3.CH(SH).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 30°C 0.10M U K1=7.64 B2=14.55 1988NDa (25119)1025
-----
     gl NaClO4 25°C 0.10M U M
                                   1985MSa (25120)1026
                        K(ZnL+dientriamine)=6.08
Zn++ gl NaCl04 25°C 0.10M U M K1=7.88 B2=14.71 1984MSb (25121)1027
                        K(ZnL+en)=4.40
-----
Zn++ cal KNO3 25°C 0.50M U H K1=6.849 B2=14.336 1975BGa (25122)1028
                         B(Zn2L2)=17.157
                         B(Zn3L4)=34.742
DH(B2)=-13 \text{ kJ mol}-1, DS(B2)=23 \text{ J mol}-1 \text{ K}-1, DH(Zn3L4)=79
______
      gl NaCl04 20°C 0.10M U T K1=8.03 B2=15.21 1974SSa (25123)1029
Zn++
At 30 C: K1=7.80, B2=15.28; 40 C: K1=7.71, B2=15.34
*******************************
                            CAS 107-96-0 (437)
3-Mercaptopropanoic acid; HS.CH2.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M M
                                   1989SHd (25195)1030
                        K(Zn(nta)+L)=4.05
______
Zn++ gl KNO3 25°C 0.50M U
                         K1=3.44 B2=12.18 1976BCa (25196)1031
                         B(Zn2L2)=11.95
                        B(Zn3L4)=30.40
Zn++ gl KNO3 20°C 0.10M U T K1=6.32 B2=12.38 1968SGb (25197)1032
K1(30 \text{ C})=6.43, K2(30 \text{ C})=6.22. K1(40 \text{ C})=6.53, K2(40 \text{ C})=6.28.
Conductivity also used.
*******************************
                            CAS 2365-48-2 (8896)
Mercaptoethanoic acid methyl ester;
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M C
                         B2=8.87 2002CDc (25237)1033
                         B3=13.51
                         B(Zn2L2)=12.54
                         B(Zn2H-1L2)=5.04
```

B(Zn2H-3L2)=-11.27

B(Zn2H-4L2 ******			****	******	*****	·******	·	*******	*****
C3H6O3 3-Hydroxyp	ropan	noic aci	HL id; HO	O.CH2.CH2	.COOH		81598-26-7	7 (2521)	
Metal	Mtd	Medium	Temp		_	Lg K val	ues	Reference	ExptNo
Zn++				2.00M U		K1=0.86 B3=1.43		1976KGa	(25253)1034
	EMF	NaClO4	25°C	2.00M U		K1=0.86 B3=1.43			(25254)1035
C3H6O3 L-2-Hydrox			HL	L-Lact	ic aci	ld CAS			· · · · · · · · · · · ·
Metal	Mtd	Medium	Temp	Conc Cal	_	-		Reference	
Zn++	sol	oth/un	20°C	2.10M U		B(ZnL(oxa		78KUa (253 <u>!</u> 88	
Zn++	dis	NaClO4	23°C	1.00M U		K1=1.93	B2=2.83	1978PSb	(25353)1037
Zn++	gl	NaClO4	25°C	2.00M U		K1=1.67 B3=2.94		1976KGa	(25354)1038
						K1=1.61 K3=0.3	B2=2.85	1967TGa	(25355)1039
Method: qu	inhyd 	lrone el	lectro	ode. 					
Zn++ Method: H			25°C	->0 U				1954DMb	(25356)1040
Zn++	con	oth/un	25°C				19!	54EMa (253	
Zn++ Method: H ******	elect	rode		0.20M U		K1=1.86	193	38CKa (253	•
C3H6O4 2,3-Dihydr		-		d; HO.CH2	.CH(O	•		(2520)	
Metal	Mtd		Temp	Conc Cal					
Zn++	gl	NaClO4	25°C			B3=2.69		1979KFa	(25623)1043
Zn++ Method: H	EMF	KCl					193	38CKa (2562	24)1044

```
*********************************
             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
______
Zn++ gl NaNO3 25°C 0.10M C M K1=5.47 B2= 9.39 2000ZLa (25994)1045
                         B(ZnLA)=11.48
A=12-Pentyl-1,4,7,10-tetraazacyclotridecane-11,13-dione.
Zn++ gl alc/w 37°C 40% C M K1=5.36 B2=10.00 1998AAa (25995)1046
                         B(ZnLA)=10.06
                         K(ZnL+A)=4.70
                         K(ZnA+L)=4.84
                         B(ZnLC)=9.85
HC:2[o-hydroxyphenylazo]-2-cyanomethyl benzimidazole. 40% EtOH/H2O, I=0.15
H2A:5-[o-hydroxyphenylazo] barbituric acid. K(ZnL+C)=4.49, K(ZnC+L)=4.82.
-----
Zn++ gl alc/w 37°C 40% C K1=5.36 B2=10.00 1997AAb (25996)1047
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4.
______
Zn++ gl KNO3 35°C 0.10M C M K1=5.49 1997PSb (25997)1048
                         K(ZnL+A)=6.04
H2A is thiamine orthophosphoric acid.
______
Zn++ vlt NaClO4 25°C 1.00M U
                         K1=4.96 B2= 8.97 1996DCa (25998)1049
                         K(Zn+HL)=0.26
                         K(Zn+2HL)=-0.28
                         K(Zn+HL+L)=4.79
Method: Tast polarography.
Zn++ gl KNO3 25°C 0.20M U T HM K1=5.19 1996JLd (25999)1050
                         K(Zn(bpy)+L)=4.85
Data for 25-45 C. DH(K1)=-5.4 kJ mol-1, DS(K1)=5.4 J K-1 mol-1;
DH(Zn(bpy)L)=-18, DS(Zn(bpy)L)=38.
______
Zn++ gl NaClO4 25°C 0.20M M K1=5.33 1996VBa (26000)1051
Zn++ gl KNO3 30°C 0.10M U
                         K1=5.01
                                  1994RSa (26001)1052
-----
Zn++ gl NaClO4 25°C 0.20M M K1=5.330 B2= 9.70 1994VBb (26002)1053
Zn++ gl NaCl04 25°C 0.20M M K1=5.330 B2= 9.70 1994VBc (26003)1054
______
Zn++ gl KCl 25°C 0.20M C
                         K1=4.56 B2=8.51 1993FBa (26004)1055
                         B(ZnH-1L)=-3.60
                     B(ZnH-1L2)=-0.15
Zn++ gl NaClO4 25°C 0.20M U T M K1=5.17 B2= 9.27 1993PPa (26005)1056
                         K(ZnA+L)=4.92
```

```
A is 2,2'-bipyridylamine. Also data for 35 and 45 C.
______
      gl KCl 25°C 0.10M C IH T K1=4.63 B2=8.66 1993SKa (26006)1057
IUPAC evaluation. DH(K1)=-7.8 kJ mol-1, DH(B2)=-17.5
   gl NaClO4 25°C 0.20M U M K1=5.43 B2=9.81 1992VBa (26007)1058
Zn++
                          B(ZnL(Trp))=9.92
                          B(ZnL(phen))=9.86
______
Zn++ gl NaCl 37°C 0.15M U
                                    1991HWa (26008)1059
                          B(ZnLA) = 7.919
                          B(ZnHLA)=15.811
                          B(Zn2LA)=18.919
H2A is 7-oxabicyclo-[2,2,1]-hept-5-ene-2,3-dicarboxylic acid
------
Zn++ vlt KNO3 25°C 0.10M C M K1=4.73 B2= 8.80 1991KNb (26009)1060
                          B3=11.22
                          B(ZnAL)=6.38
                          B(ZnA2L)=9.06
                          B(ZnAL2)=10.53
Method: polarography, medium pH 8.5. HA is ethanoic acid.
_____
Zn++ gl KNO3 37°C 0.15M C M K1=4.51 B2= 8.70 1990KKc (26010)1061
                          B(ZnH-2L)=-11.62
                          B(ZnHL(imidazole))=14.35
                         B(ZnL(imidazole)3)=12.32
-----
    gl KNO3 37°C 0.15M U M K1=4.51 B2= 8.70 1990KKc (26011)1062
Zn++
                          B(ZnH-2L)=-11.62
                          B(ZnA3L)=12.32
                          B(ZnHAL)=14.35
A: imidazole
______
Zn++ gl KNO3 35°C 0.10M U K1=4.50 1990RSe (26012)1063
______
Zn++ gl KNO3 25°C 0.10M C M
                                    1989MAd (26013)1064
                          K(ZnA+L)=4.36
                          B(ZnAL)=11.21
H2A is N-(2-acetamido)imino diethanoic acid.
______
      gl KNO3 35°C 0.20M U M K1=4.80 B2=8.85 1989RVa (26014)1065
Zn++
                         K(ZnA+L)=4.33
A=bis(imidazol-2-yl)methane
-----
Zn++ gl KNO3 25°C 0.20M U M K1=5.29
                                   1988BSc (26015)1066
                         K(Zn(bpy)+L)=4.90
Zn++ gl NaCl04 27°C 0.20M U M K1=5.17 B2= 9.27 1988PPc (26016)1067
                         K(ZnA+L)=4.92
A is 2,2'-dipyridylamine.
```

Zn++	nmr ı	none	20°C	0.0	U		1986DHa (26017)1068 K(ZnA+L)=2.5 K(ZnA+HL)=0.6
In D2O. A	= tri	en					
Zn++	nmr i	none	20°C	0.0			1986DHb (26018)1069 K(ZnA+HL)=0.30 K(ZnA+L)=1.30
In D20. A	= tre	n					`
		NaCl			U	М	1986XHa (26019)1070 B(ZnL(His))=12.77 B(ZnH-1L(His))=2.98
							K1=4.440 1985CFb (26020)1071 B(ZnH-1L)=-3.17
Zn++	ISE I	 KNO3					K1=5.01 B2=9.57 1985DVa (26021)1072 B3=11.37 K(ZnL+H)=8.10 K(ZnH-1L+H)=8.52 K(Zn(IDA)+L)=6.24
			25°C	0.10M	U		K1=4.55 1985MKa (26022)1073
							K1=5.17 1984JOb (26023)1074 K(Zn(bpy)+L)=4.54
Medium: no	t sta	ted.					
Zn++	gl I	KC1	25°C	0.20M	С	М	
			-		-		=4.12, B(ZnHLB)=23.87 4-dihydroxyphenylalanine
Zn++ DH(K1)=-7.	_					н '	T K1=4.65 B2=8.79 1983ACb (26025)1076
Zn++							K1=4.65 B2= 7.88 1983APa (26026)1077 B(ZnAL)=6.99 B(ZnAL2)=7.96 B(ZnA2L)=8.68 3, pH 8.0. H2A is oxalic acid.
•	_						n(en)2L)=13.95
Zn++	gl I	NaC104	25°C	0.10M	U		K1=4.62 B2=8.85 1980FSa (26027)1078 K3=3.31

By NMR:	K1=4.8									
Zn++							B(Zn(bpy)I K(Zn(bpy)- B(ZnL(pher K(Zn(phen)	L)=9.72 +L)=4.42 n))=11.15)+L)=4.60	∂FSa (2602	
							K1=4.3 B(ZnHL)=13 B(ZnHL2)=3 B(ZnH2L2)=	B2=8.0 1.36 15.60		(26029)1080
Zn++	gl	NaClO4	25°C	1.00M	С		K1=4.65 B(ZnHL)=9		1979BJb	(26030)1081
Alternat	ive me	thod: I	on se	lectiv	e 6	electr	rode			
	J						K1=5.21 K(Zn(his)- B(Zn(his)I	+L)=4.54 L)=11.21		(26031)1082
Zn++	gl	NaClO4	30°C	0.20M	U			B2=9.27	1975JBb	(26032)1083
								B2=8.54))=7.17)2)=9.22		(26033)1084
Zn++ K1(35 C):					U	T	T K1=4.952	B2=9.23	1971GKa	(26034)1085
K1(35 C)	=4.562	, K2(35	C)=4	.026			T K1=4.604 L)=54 J K-1			(26035)1086
Zn++			25°C	0.50M	U	M	B(ZnLA)=9 B(ZnL2A2)=	.56	LLa (2603	36)1087
HA=salic	y⊥alde 	hyde 								
Zn++	gl	oth/un	25°C		U		K1=5.16			(26037)1088
								B2=8.56	1970FEa	(26038)1089
							T K1=4.51			
Zn++	gl	KCl	25°C	0.50M	U		T K1=4.56 B3=10.58	B2=8.56	1970SFb	(26040)1091

```
Zn++ gl KNO3 37°C 0.15M U T K1=4.57 B2=8.56 1969CPc (26041)1092
                       B3=10.65
                       K(ZnL+H2O=Zn(OH)L+H)=-8.53
Zn++ oth NaClO4 25°C 0.50M U T K1=4.67 B2=8.95 1967RPd (26042)1093
Method: optical rotation
-----
    vlt KCl 30°C 0.50M U B2=8.85 1967SSk (26043)1094
-----
Zn++ gl KCl 25°C 0.50M U M T K1=4.56 B2=8.52 1966LHc (26044)1095
                       B3=10.51
                       B(ZnAL)=6.79
                       B(ZnBL)=6.32
                       B(ZnAL2)=9.4
HA=pyruvic acid, HB=glyoxylic acid. B(ZnBL2)=10.17, B(ZnA2L2)=13.01,
B(ZnB2L2)=12.03
______
Zn++ gl KNO3 20°C 0.37M U K1=4.63 B2=9 1966SWa (26045)1096
_____
Zn++ gl KCl 40°C 0.20M U T H K1=4.80 B2=8.66 1965SMb (26046)1097
K1=4.98(15 C), 4.88(25 C); K2=4.12(15 C), 3.96(25 C)
DH(K1)=-12.5 kJ mol-1, DS=50.2 J K-1 mol-1, DH(K2)=-18.0, DS=16.7
______
Zn++ oth KNO3 20°C 0.10M U
                       K1=5.7 B2=9.60 1964J0a (26047)1098
                       K3 = 2.3
Method: paper electrophoresis
______
Zn++ gl KCl 20°C 0.10M U T K1=4.55 B2=8.65 1963IPa (26048)1099
        Zn++ gl oth/un 25°C 0.01M U K1=4.9 1954PEa (26049)1100
______
Zn++ gl oth/un 21°C 0.01M U B2=9.1 1952PEa (26050)1101
Medium: 0.005-0.01 M ZnSO4
-----
Zn++ gl oth/un 25°C ->0 U T K1=5.21 B2=9.54 1951MOa (26051)1102
______
Zn++ gl oth/un 25°C 0.01M U K1=5.16 B2=9.50 1950MMa (26052)1103
****************************
            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
-----
            25°C 0.10M C TIH T K1=4.15
      gl KCl
                               1993SKa (26408)1104
IUPAC evaluation. DH(B2)=-17 \text{ kJ mol}-1(T)
Zn++ oth NaNO3 35°C 0.10M U
                                1985VSa (26409)1105
                     Μ
                       K(Zn(NTA)+L)=3.42
By electrophoresis
```

```
Zn++ vlt KNO3 30°C 0.3M C M K1=4.25 B2= 6.55 1983APa (26410)1106
                      B(ZnAL)=6.47
                      B(ZnAL2)=6.93
                      B(ZnA2L)=7.15
Method: polarography. Medium: 0.30 M KNO3, pH 8.0. H2A is oxalic acid.
B(Zn(en)L)=9.80, B(Zn(en)L2)=10.10, B(Zn(en)2L)=12.15
-----
Zn++ gl NaNO3 20°C 0.10M U K1=4.10 1978LEb (26411)1107
______
Zn++ gl oth/un 25°C dil U K1=5.15 1970CBb (26412)1108
_____
Zn++ gl KCl 25°C 0.50M U M K1=3.90 B2=7.20 1970CBb (26413)1109
                      B3=10.40
                      B(ZnLA)=8.40
                      B(ZnL2A2)=16.20
HA=salicylaldehyde
______
Zn++ vlt KCl 30°C 0.50M U K1=4.2 B2=7.0 1967SSk (26414)1110
______
     cal KNO3 22°C 0.10M U H
                               1967SS1 (26415)1111
DH(B2) < -17.1 \text{ kJ mol}-1
______
Zn++ gl KCl 25°C 0.50M U M K1=3.9
                               1966LHb (26416)1112
                      B(ZnAL)=7.08
                      B(ZnA2L2)=12.1
HA=pyruvic acid
______
Zn++ gl KCl 40°C 0.20M U T K1=3.82 1965SMb (26417)1113
K1=4.10(15 C)
______
Zn++ gl KCl 20°C 0.10M U K1=4
                              1954IRa (26418)1114
DL-Alanine CAS 302-72-7 (189)
DL-2-Aminopropanoic acid; H2N.CH(CH3).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                    K1=4.44
Zn++ gl NaCl 37°C 0.15M U
                               1982HFa (26528)1115
                     K(Zn+L=Zn(OH)L+H)=-3.18
-----
Zn++ gl KCl 20°C 0.15M U M K1=4.71 1982VDa (26529)1116
______
Zn++ gl KCl 25°C 0.20M C M K1=4.56 B2=8.51 1981GEa (26530)1117
                      B(ZnH-1L)=-3.60
                      B(ZnH-1L2)=-0.2
Ternary complexes with His-L-Ala and His-D-Ala
______
Zn++ gl NaNO3 30°C 0.20M C M K1=4.81 B2= 8.83 1981RSd (26531)1118
                      K(Zn(asp)+L)=3.94
```

```
B(Zn(asp)L)=9.73
```

```
H2asp is aspartic acid.
                -----
      gl KCl 25°C 0.20M C
Zn++
                                   1979KGa (26532)1119
                         B(ZnHLA)=24.39
                         B(ZnLA)=13.96
H2A=dopamine.
**********************************
              L
                  Methylglycinate CAS 616-34-3 (1738)
Glycine methyl ester; NH2.CH2.COOCH3
______
      Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ sp non-aq 15°C 100% U M
                                   1993MEa (26554)1120
                         K(ZnA+L)=3.54
                         K(ZnB+L)=1.18
In chloroform. A=5,15-Bis(2-hydroxy-1-naphthyl)-2,3,7,8,12,13,17,18-octa-
ethylporphine, B=5,15-Bis(2-methoxy-1-naphthyl) deriv. of A.
****************************
              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
______
                          K1=4.31 B2=8.42
     gl NaClO4 21°C 0.10M M I
                                      1985LWb (26589)1121
                         B(ZnH-1L)=-1.07
                         B(ZnH-1L2)=1.15
Values in 50% methanol-water (v/v) are also given.
Zn++ gl KNO3 25°C 0.10M C
                      M K1=4.53 B2=8.33 1975D0b (26590)1122
                         B(ZnLbpy)=9.15
                         B(ZnL(bpy)2)=12.75
                         B(ZnL2bpy)=12.69
Zn++ gl KCl
             25°C 0.50M U
                       M K1=4.31 B2=8.3 1966LHb (26591)1123
                         B(ZnAL)=4.6
                         B(ZnAL2) = 9.85
                         B(ZnA2L2)=10.1
HA=pyruvic acid
-----
                         B2=8.8
      gl oth/un 20°C 0.01M U
Zn++
                                  1952PEa (26592)1124
Medium: ZnSO4
*********************************
                              (6927)
N-Methylacetohydroxamic acid; CH3.CO.N(OH)CH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C K1=4.51 B2= 8.35 2000FEc (26617)1125
```

```
C3H7N02
                                (7502)
               HL
Propanohydroxamic acid; C2H5CONHOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KCl
                         K1=5.07 B2= 9.51 2000FEc (26629)1126
Zn++
              25°C 0.20M C
                            B3=11.6
                           B(ZnH-1L2)=-0.32
******************************
                   Cysteine
              H2L
                              CAS 52-90-4 (96)
2-Amino-3-mercaptopropanoic acid; H2N.CH(CH2.SH)COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 37°C 0.15M C
                                      1996NAa (26710)1127
                            B(ZnHLA)=23.24
                            B(ZnLA)=16.34
                            K(ZnHA+L)=9.63
                            K(ZnL+A)=6.70
HA is DL-2,3-diaminopropanoic acid, HC is DL-2,4-diaminobutanoic acid.
B(ZnH2LC)=30.11, B(ZnHLC)=24.37, B(ZnLC)=17.18, K(ZnHC+L)=10.15, K(ZnL+C)=7.54
______
Zn++
       gl NaClO4 37°C 0.15M C
                         М
                                       1996NAa (26711)1128
                            B(Zn(orn)H2L)=30.78
                            B(Zn(orn)HL)=24.05
                            B(Zn(orn)L)=16.35
                            K(Zn(orn)H+L)=9.49
K(ZnL+orn)=6.71, K(Zn(orn)+L)=9.66.
Zn++
       gl NaCl
              37°C 0.15M C TI R B2=17.9
                                      1995BEa (26712)1129
IUPAC evaluation. Tentative values: 0.2 M KCl, 25 C:K1=8.2, B2=18.05,
B(ZnHL)=14.76, B(ZnHL2)=24.43, B(ZnH2L2)=29.93, B(Zn3L4)=42.11
______
Zn++ gl NaCl04 25°C 0.10M M K1=8.97 B2=17.86 1993GVa (26713)1130
______
      gl NaClO4 37°C 0.15M C M K1=9.64
                                   B2=17.81 1993NAc (26714)1131
Zn++
                            B(ZnHL2)=24.63
                            B(ZnH2L2)=29.93
                            B(ZnH2L(his))=27.42
                            B(ZnHL(his))=22.07
B(ZnL(his))=15.97. Also data for ternary complexes with histamine.
______
Zn++
       gl NaClO4 37°C 0.15M C
                        M K1=9.64 B2=17.81 1993NAc (26715)1132
                            B(ZnHL2)=24.63
                            B(ZnH2L2)=29.93
Data for ternary complexes with imidazole, histamine and histidine.
B(ZnH2L(his))=27.42, B(ZnHL(his))=22.07, B(ZnL(his))=15.97, K(ZnL+his)=6.3
______
      gl NaCl 37°C 0.15M U
                         Μ
                                       1991HWa (26716)1133
Zn++
                            B(ZnHLA)=19.632
```

```
B(7nH2I\Delta)=25.603
```

H2A is 7-	oxabi	.cyclo-[2,2,1]-hept	-5-ene-2	B(ZnH2LA)=25.603 B(ZnH3LA)=29.766 ,3-dicarboxylic acid
Zn++	gl	KNO3	25°C 0.10M	M M	1989SHd (26717)1134 K(Zn(nta)+L)=6.51 K(Zn(nta)+H+L)=14.02
		NaC1	37°C 0.15M		T B2=17.77 1985CFb (26718)1135 B(ZnHL)=14.67 B(Zn2L3)=30.26 B(Zn2HL3)=36.14 B(Zn2H2L3)=41.73
Ternary c	omp1e	x with	glutaminate 		
Zn++	gl	NaClO4	37°C 0.15M	U	K1=9.17 B2=17.29 1980AMa (26719)1136 B(ZnHL2)=23.32 B(Zn2L3)=20.75
	gl 42.11		25°C 0.20M		K1=8.2 B2=18.05 1979SGa (26720)1137 B(ZnHL)=14.76 B(ZnHL2)=24.43 B(ZnH2L2)=29.93 B(Zn2L3)=29.20
Zn++	gl	NaClO4	37°C 0.15M	С	T B2=17.91 1978BMa (26721)1138 B(ZnHL)=14.60 B(ZnHL2)=24.11 B(Zn3L4)=42.28 B(Zn3H2L4)=54.08
Zn++	gl	NaC104	25°C 3.00M	С	B2=19.39 1976CWa (26722)1139 B(ZnHL2)=25.86 B(ZnH2L2)=31.88 B(Zn3L4)=46.25 B(Zn3HL4)=52.50
					K1=9.24 1974RMa (26723)1140 Pate(16.59) and NTA(26.2)
Zn++ 35Cl prob		oth/un	32°C 0.50M	U	K1=8.91 B2=17.61 1973HAb (26724)1141 K(Zn+HL)=4.80
			25°C 0.10M B2=18.18,		K1=9.19 B2=18.19 1972RJa (26725)1142 K(Zn+HL+L)=24.47 ·L)=24.50
 Zn++	gl	 NaCl04	 20°C 0.10M	 U	B2=18.21 1968PSe (26726)1143
	_				, ,

B(ZnHL2)=24.79 B(ZnH2L2)=30.6 B(Zn3L4)=43.5 B(Zn3HL4)=49.5

```
Zn++ gl KNO3 25°C 0.10M U K1=9.04 B2=17.54 1964LMa (26727)1144
______
Zn++ gl KNO3 25°C 0.15M U K1=9.86 B2=18.70 1955LMa (26728)1145
______
Zn++ gl oth/un 20°C 0.00 U B2=17.1 1953PEa (26729)1146
Medium: 0.0025 M Hg(NO3)2
______
   gl oth/un 20°C 0.01M U B2=18.2 1952ALa (26730)1147
********************************
              HL Serine
C3H7NO3
                           CAS 56-45-1 (49)
2-Amino-3-hydroxypropanoic acid; H2N.CH(CH2.OH)COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C M K1=5.10 1999AAa (27039)1148
                         K(ZnL+A)=3.61
                         B(ZnLA)=8.71
                         K(ZnL+B)=3.52
                         B(ZnLB)=8.62
HA=MOPSO, HB=MOPS.
______
     vlt NaClO4 25°C 1.0M C
                      Μ
                                   1999VKc (27040)1149
                         B(ZnLA)=5.12
                         B(ZnLA2)=8.18
                         B(ZnL2A)=10.40
Method: polarography. Medium pH: 8.5. A is 4-picoline.
Zn++
     gl KNO3 35°C 0.10M C M K1=4.50 B2= 8.75 1998ZWa (27041)1150
                         B(ZnH-1L2)=0.56
                         B(ZnH-2L2)=-7.93
Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-
2,10-dione dioxime
      gl KNO3 25°C 0.10M M M K1=6.40
                                  1996AEa (27042)1151
Data for ternary complexes with dipicolinic acid.
-----
     gl NaClO4 37°C 0.15M C T R K1=4.47 B2=8.29 1995BEa (27043)1152
                         B(ZnH-1L2)=-1.14
IUPAC evaluation
______
Zn++ gl NaClO4 25°C 1.0M U M K1=4.41 B2= 8.05 1995KDa (27044)1153
                         K3=2.21
                         B(ZnLA)=6.43
                         B(ZnLA2)=8.91
                         B(ZnL2A)=10.31
```

```
Medium pH 8.50. HA is propanoic acid.
______
Zn++ gl NaClO4 25°C 0.20M U T M K1=5.06 B2= 9.17 1993PPa (27045)1154
                        K(ZnA+L)=4.71
A is 2,2'-bipyridylamine. Also data for 35 and 45 C.
Zn++ gl KNO3
            25°C 0.10M U I K1=4.47 B2=8.66 1990RAb (27046)1155
Data also for 10% w/w EtOH/H20 (K1=4.72; B2=8.79) and 25% (5.24; 9.56)
______
                                  1989MAd (27047)1156
Zn++ gl KNO3 25°C 0.10M C M
                        K(ZnA+L)=4.17
                        B(ZnAL)=11.02
H2A is N-(2-acetamido)imino diethanoic acid.
                         _____
Zn++
    gl KNO3 35°C 0.20M U M K1=4.66 B2=8.49 1989RVa (27048)1157
                       K(ZnA+L)=4.13
A=bis(imidazol-2-yl)methane
______
Zn++ gl KNO3 25°C 0.10M M M
                                 1989SHd (27049)1158
                        K(Zn(nta)+L)=2.99
Zn++ gl NaCl04 27°C 0.20M U M K1=5.06 B2= 9.17 1988PPc (27050)1159
                        K(ZnA+L)=4.71
A is 2,2'-dipyridylamine.
______
Zn++ gl KNO3 25°C 0.10M U K1=4.62 1985MKa (27051)1160
-----
Zn++ gl oth/un 30°C 0.20M U M K1=5.06 1984JOb (27052)1161
                       K(Zn(bpy)+L)=4.79
Medium: not stated.
______
Zn++ gl NaClO4 37°C 0.15M C
                        K1=4.475 B2= 8.26 1982BKc (27053)1162
                        B(ZnH-1L2)=10.250
------
Zn++ gl KCl 25°C 0.20M C M T K1=4.45 B2=8.16
                                    1981GEa (27054)1163
                        B(ZnH-1L)=-3.73
                        B(ZnH-1L2)=-2.4
B(ZnL(His))=10.14
Zn++ gl NaNO3 30°C 0.20M C
                      M K1=4.68 B2= 8.39 1981RSd (27055)1164
                        K(Zn(asp)+L)=3.89
                        B(Zn(asp)L)=9.68
H2asp is aspartic acid.
                  -----
Zn++ gl NaNO3 30°C 0.20M C M K1=4.68 B2= 8.39 1981RSe (27056)1165
                        B(Zn(ida)L)=10.56
                        K(Zn(ida)+L)=3.58
 Zn++ vlt KNO3 25°C 0.50M U T H K1=4.60 B2=9.12 1979SSc (27057)1166
______
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```
K1=4.90 B2=9.28 1973WIa (27058)1167
Zn++ gl NaClO4 25°C 3.00M U
                         B3=11.91
-----
Zn++ gl KCl
             25°C 0.05M U T K1=4.65 B2=8.68 1972GMb (27059)1168
K1(20 \text{ C})=4.69, K2=4.07; K1(30 \text{ C})=4.61, K2=4.00; K1(35 \text{ C})=4.58, K2=3.96
Zn++ gl KNO3 37°C 0.15M U M T K1=4.47 B2=8.31 1969PSb (27060)1169
                         B3=10.56
                         B(ZnLA)=9.67
                         B(ZnLA2)=13.04
                         B(ZnL2A)=13.04
A=histamine
______
Zn++ gl KNO3 40°C 0.20M U T H K1=4.58 B2=8.22 1968RMb (27061)1170
K1=4.71(15 C),4.66(25 C); K2=3.77(15 C),3.72(25 C)
DH(B2)=-18.0 kJ mol-1, DS=100 J K-1 mol-1
_____
Zn++ cal KNO3 22°C 0.10M U H
                                   1967SS1 (27062)1171
DH(B2) < 28 \text{ kJ mol}-1
______
Zn++ gl oth/un 25°C 0.10M U I K1=4.94 B2=9.22 1964SYa (27063)1172
I=0: K1=5.30, K2=4.45; I=0.01: K1=5.22, K2=4.46; I=0.02: K1=5.19, K2=4.45;
I=0.05: K1=5.08, K2=4.40
______
Zn++ gl oth/un 20°C .005M U B2=8.6
                                  1953PEa (27064)1173
Medium: 0.005 M ZnSO4
***********************************
                            CAS 2786-22-3 (1893)
C3H7NO3
2-Aminooxypropanoic acid; CH3.CH(0.NH2).COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=2.34 1985WTa (27209)1174
*******************************
             HL iso-Serine CAS 632-12-2 (351)
DL-3-Amino-2-hydroxypropanoic acid; H2N.CH2.CH(OH).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C M
                                  1988ACa (27226)1175
                         B(ZnHL)=11.03
                         B(Zn2H-2L2)=-3.50
                         B(ZnH-2L2)=-9.1
Also B(CoZnH-2L2)=-3.74.
______
                                   1976BMe (27227)1176
     gl KCl 25°C 0.10M U
Zn++
                         B2=15.821
                         B(ZnH2L)=24.019
                         B(Zn2L2)=22.779
                         K(Zn+L=ZnH-1L+H)=-0.496
*********************************
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C3H7NO5S
                   Cysteic acid CAS 23537-25-9 (2603)
              H2L
2-Amino-3-sulfonatopropanoic acid; HO3S.CH2.CH(NH2).COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·-----
Zn++ gl NaClO4 37°C 0.15M C
                                      1996NAa (27249)1177
                           B(ZnHLA)=17.86
                           B(ZnLA)=11.13
                           K(ZnHA+L)=4.25
                           B(ZnH2LC)=25.95
HA is DL-2,3-diaminopropanoic acid, HC is DL-2,4-diaminobutanoic acid.
B(ZnHLC)=18.92, K(ZnHC+L)=4.36.
Zn++ gl NaClO4 37°C 0.15M C M
                                      1996NAa (27250)1178
                           B(Zn(orn)H2L)=25.95
                           B(Zn(orn)HL)=18.92
                           K(ZnH(orn)+L)=4.36
     gl NaClO4 37°C 0.15M C M K1=3.77 B2= 6.02 1993NAc (27251)1179
Data for ternary complexes with imidazole, histamine and histidine.
B(ZnHL(his))=17.63, B(ZnL(his))=11.15, K(ZnL+his)=7.38, K(Zn(his)+L)=4.74.
_____
   gl KNO3 25°C 0.50M U K1=5.60 B2=9.70 1979DZb (27252)1180
***************************
                              CAS 128-04-1 (2125)
               HL
Dimethyldithiocarbamic acid; (CH3)2N.CSSH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ EMF non-aq 25°C 100% U B2=11.4
                                      1987USa (27268)1181
Medium: DMF, 0.1 M LiClO4
______
     dis oth/un 25°C 0.01M U B2=9.1 1973SSa (27269)1182
______
      sol non-aq 25°C 100% U HM
                                      1965CRa (27270)1183
                           K(ZnL+A)=3.41
                           K(ZnL+B)=2.58
                           K(ZnL+C)=3.16
                           K(ZnL+D)=3.4
Medium:toluene. A=ethylmine, B=t-butylamine, C=n-butylamine, D=pyrrolidine
DH(ZnL+B)=-41 \text{ kJ mol-1}, DH(ZnL+C)=-31. K(ZnL+aniline)=0.04
_____
Zn++
      sol non-aq 25°C 100% U HM
                                      1965CRa (27271)1184
                           K(ZnL+A)=1.91
                           K(ZnL+B)=2.34
                           K(ZnL+C)=1.05
                           K(ZnL+D)=3.11
Medium:toluene. A=pyridine, B=4-Mepyridine, C=2-Mepyridine, D=morpholine
DH(ZnL+A)=-32 \text{ kJ mol-1}, DH(ZnL+B)=-40, DH(ZnL+C)=-29. Other ternary also
*********************************
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```
(6903)
C3H7N5
5-(2-Aminoethyl)-1H-tetrazole; NH2.CH2.CH2.CHN4
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaNO3 20°C 0.10M U K1=4.73 1978LEb (27289)1185
**********************************
                          CAS 5926-41-4 (3549)
            H3L
2-Phosphonopropanoic acid; CH3.CH(PO3H2).COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
      gl R4N.X 25°C 0.25M U K1=2.96
                               1957WBa (27297)1186
Medium: 0.1-0.4 M (C3H7)4NI
H2L
                           (6830)
3-Hydroxy-2-oxopropylphosphoric acid; CH2(OH).CO.CH2.OPO3H2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M U K1=2.01
                              1992LCb (27317)1187
********************************
C3H707P
            H3L
                         CAS 28474-06-8 (3552)
D-2,3-Dihydroxypropanoic acid 2-phosphate (D-2-phosphoglyceric acid)
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl R4N.X 25°C 0.25M U K1=3.40
                                1957WBa (27327)1188
Medium: 0.1-0.4 M (C3H7)4NI
3-Phosphono-Ala CAS 20263-06-3 (1509)
            H3L
2-Amino-3-phosphonatopropanoic acid; (H2O3P)CH2.CH(NH2).COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++
     gl KCl
           25°C 0.20M C
                       K1=7.15
                             B2=12.16 1989KFb (27344)1189
                       B(ZnHL)=13.1
                       K1=6.63 B2=11.79 1978MAb (27345)1190
Zn++ gl KNO3 25°C 0.20M C
                       K(Zn+HL)=2.16
                       K(ZnL+HL)=2.45
********************************
C3H8N05P
                         CAS 23052-80-4 (1508)
            H<sub>3</sub>L
3-Amino-3-phosphonatopropanoic acid; (H2O3P)(NH2)CH.CH2.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KCl 25°C 0.20M C
                       K1=6.62 B2=10.82 1989KFb (27358)1191
                       B(ZnH2L)=17.92
                       B(ZnHL)=13.03
```

```
Zn++ gl KCl 25°C 1.00M C K1=5.02 B2=9.81 1989MSb (27359)1192
                          K(ZnL+H)=6.30
                          K(ZnL2+H)=6.89
*******************************
                  Glyphosate CAS 1071-83-6 (1617)
              H3L
N-(Phosphonomethyl)glycine; H2O3P.CH2.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 30°C 0.10M U T HM K1=12.64 B2=21.59 1997RPc (27386)1193
                          K(ZnL+gly)=3.06
                          K(ZnL+ala)=3.00
                          K(ZnL+A)=8.34
                          K(Zn(phen)+L)=12.33
Data for 20-50 C. DH(K1)=-40 \text{ kJ mol}-1, DS(K1)=110 \text{ J K}-1 \text{ mol}-1, DH(K2)=-30,
DS(K2)=70. H2A is catechol. K(Zn(bpy)+L)=12.10, K(Zn(ida)+L)=10.38.
______
Zn++ gl KNO3 25°C 0.1M C K1=8.74 B2=11.69 1985MMa (27387)1194
                          B(ZnHL) = 7.99
                         K(ZnL(OH)+H)=-0.99
_____
Zn++ gl KNO3 25°C 0.10M M K1=8.4 1978LCa (27388)1195
*************************
C3H8NO6P H3L Phosphoserine CAS 17885-08-4 (1865)
Serine dihydrogenphosphate, O-Phosphoserine; NH2.CH(CH2.OPO3H2).COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 15°C 0.15M C K1=5.89 B2=10.35 1983MBa (27441)1196
                         K(Zn+HL)=2.00
Data for LL. For DL: K1=5.86, K2=4.21, K(Cu+HL)=1.91
______
Zn++ gl KNO3 25°C 0.10M C K1=5.88 B2= 9.72 1981TMe (27442)1197
Also data for the schiff based formed with pyridoxal.
______
Zn++ gl KNO3 25°C 0.20M C M K1=5.82 B2=10.11 1979MBa (27443)1198
                          K(Zn+HL)=2.01
                          K(ZnL+HL)=2.20
                          B(ZnH(histamine)L)=18.26
                          K(Zn(histamine)+L)=5.83
K(Zn(phen)+L)=5.38, K(Zn(bpy)+L)=5.60
                       -----
Zn++ gl KNO3 25°C 0.20M C
                          K1=5.80 B2=10.05 1978MAb (27444)1199
                          K(Zn+HL)=1.96
                         K(ZnL+HL)=1.94
Zn++ gl KNO3 25°C 0.20M C
                        K1=5.80 B2=10.05 1978MAc (27445)1200
                          K3=2.20
                          K(Zn+HL)=1.96
```

```
K(ZnHL+L)=1.94
K(ZnL+H)=5.88
```

```
**********************************
C3H8N2O2
                                CAS 71292-18-7 (356)
2,3-Diaminopropanoic acid; H2N.CH2.CH(NH2).COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 37°C 0.15M U M
                                        1990NTb (27542)1201
                             B(Zn(glu)HL)=19.48
                             B(Zn(glu)L)=10.72
                             K(Zn(glu)+H+L)=14.09
                             K(ZnHL+glu)=5.87
K(Zn(glu)+L)=5.33.
                         M B2=13.70 1986NPa (27543)1202
    gl NaClO4 37°C 0.15M C
Zn++
                            B(ZnHL)=13.61
                             B(ZnH2L2)=25.70
B(ZnH2LA)=25.44, A=histamine. B(ZnH2L(His))=25.66
------
     gl KCl
              25°C 0.20M C
Zn++
                             K1=6.31 B2=11.66 1981FGb (27544)1203
                             B(ZnHL)=12.59
                             B(ZnH2L2)=24.62
                             B(ZnHL2)=18.43
                             B(ZnH-1L)=0.94
     gl NaCl 37°C 0.15M C
                          M K1=6.38 B2=11.67 1981JMa (27545)1204
Zn++
                             B(ZnL(His))=12.04
                             B(ZnHL)=12.44
                             B(ZnHL(His))=18.50
                             B(ZnHL2)=17.97
Zn++ gl oth/un 20°C 0.01M U B2=11.5 1952ALa (27546)1205
******************************
C3H8N2O2
                HL Ala-hydroxamic CAS 16707-85-0 (1582)
2-Amino-N-hydroxypropanamide, Alanine hydroxamic acid; CH3.CH(NH2).CO.NH.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KCl
              25°C 0.20M C
                          M K1=5.29 B2= 9.32 2002KKa (27571)1206
                             B(ZnHL)=12.27
                             B(Zn2L3)=18.77
                             B(ZnH-1L)=-2.26
                             B(ZnL(dien))=13.60
B(ZnH-1L(dien))=2.89, B(ZnHL(trien))=24.88, B(ZnL(trien))=17.32,
B(ZnH-1L(trien))=6.69.
       gl KCl 25°C 0.20M C
Zn++
                             K1=5.29 B2=9.32 1989FSa (27572)1207
                             B(ZnHL)=12.27
                             B(ZnH-1L)=-2.26
```

```
B(Zn2L3)=18.77
*******************************
                              (6666)
beta-Alaninehydroxamic acid; NH2.CH2.CH2.CO.NHOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.20M C M B2=11.19
Zn++ gl KCl
                                   2002KKa (27601)1208
                         B(ZnHL)=14.66
                         B(ZnH2L2)=28.51
                         B(ZnHL2)=20.36
                         B(ZnH-1L2)=1.16
B(ZnHL(dien))=22.77, B(ZnL(dien))=14.04, B(ZnH2L(trien))=32.12,
B(ZnHL(trien))=27.04, B(ZnL(trien))=17.75.
                          B2=10.85 1993KFa (27602)1209
Zn++ gl KCl 25°C 0.20M C
                         B(ZnHL)=14.16
                         B(ZnH2L2)=27.59
                         B(ZnHL2)=19.65
                         B(ZnH-1L2)=1.05
------
                         B2=11.19 1993KKb (27603)1210
Zn++ gl KCl
             25°C 0.20M C
                         B(ZnHL)=14.66
                         B(ZnH-1L2)=1.16
                         B(ZnHL2)=20.36
                         B(ZnH2L2)=28.51
********************************
C3H80S2
             H2L
                  BAL
                            CAS 59-52-9 (379)
2,3-Dimercaptopropan-1-ol; HS.CH2.CH(SH).CH2(OH)
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 30°C 0.10M U K1=13.48 B2=23.3 1961LTa (27656)1211
******************************
C3H802S
             HL 1-Thioglycerol CAS 96-27-5 (1848)
3-Mercapto-1,2-propanediol HS.CH2.CH(OH).CH2.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 20°C 0.10M U TI K1=10.26 B2=28.29 1986NDb (27704)1212
-----
Zn++ cal KNO3 25°C 0.50M U H
                                   1974BHa (27705)1213
                         B(Zn2L3)=18.09
                         B(Zn3L6)=37.805
                         B(Zn4L9)=56.54
                         B(Zn5L12)=74.74
B(Zn6L15)=93.87. DH(Zn6L15)=-305.4 kJ mol-1, DH(Zn3L6)=-154.8,
DH(Zn4L9)=-133.9, DH(Zn5L12)=-125.5
______
```

1971BPc (27706)1214

gl KNO3 25°C 0.50M U

Zn++

```
B(2Zn+3L)=18.00
B(3Zn+6L)=37.85
B(4Zn+9L)=56.75
B(5Zn+12L)=74.75
```

```
B(6Zn+15L)=95.84
**********************************
C3H8O3S3
            H3L
                           (1324)
1,3-Dimercaptopropanesulfonic acid; HS.CH2.CH2.CH(SH).SO3H
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      EMF KNO3 20°C 0.10M U K1=14.49 B2=25.71 1967PRa (27761)1215
*********************************
               Unithiol
C3H8O3S3
            H3L
                          CAS 74-61-3 (1271)
2,3-Dimercaptopropanesulfonic acid; HS.CH2.CH(SH).CH2.SO3H
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 37°C 0.15M U
                    B2=27.56 1984JSb (27772)1216
                       B(Zn2L2)=33.58
                      B(Zn2HL3)=52.63
 ._____
Zn++ EMF KNO3 20°C 0.10M U K1=14.09 B2=24.96 1967PRa (27773)1217
*******************************
C3H8O10P2
            H5L
                           (6577)
2,3-Diphospho-D-glyceric acid; H2O3PO.CH2.CH(COOH)OPO3H2
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       B2=7.59
Zn++ gl KCl 25°C 0.20M C
                                1990SKc (27801)1218
                       B(ZnHL)=10.38
                       B(ZnH2L2)=19.98
                       B(ZnHL2)=14.53
                       B(ZnH-1L2)=-0.85
********************************
C3H9N
                n-Propylamine CAS 107-10-8 (2356)
1-Aminopropane; H2N.CH2.CH2.CH3
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     ISE R4N.X 25°C 2.00M U
                       K1=2.42 B2=4.85 1969PMc (27818)1219
Zn++
                       K3=2.53
                       K4=2.11
Medium: NH4NO3
------
     sol oth/un 19°C 0.01M U
                      B2=5.5
                              1933TAa (27819)1220
                      B4=6.1
***********************************
                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	
Zn++	ISE R4N.X 25°C 2.00M U K1=2.37 B2=4.67 1970PMa (27839): K3=2.47 K4=2.30	1221
Medium: NF	NO3 ************************************	
C3H9NO	L CAS 2799-16-8 (905) an-2-ol; H2N.CH2.CH(OH).CH3	
Metal	Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo	
Zn++	vlt KNO3 25°C 0.10M U K1=6.54 B2=7.34 1981AAa (27872): B3=8.70	1222
C3H9NO	**************************************	
Metal	Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo	
Zn++	vlt KNO3 25°C 0.10M U K1=5.30 B2=6.20 1980AAa (27885): B3=6.95	1223
Zn++	gl oth/un 25°C 0.10M U K1=3.9 B2=6.80 1965D0a (27886): K3=2.4 K4=2.2	1224
C3H9NO	**************************************	
Metal	Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo	
********* C3H9N2O4P	vlt KNO3 25°C 0.10M U K1=7.88 1981AAa (27914)1225 ***********************************	
Metal	Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo	
	gl KNO3 25°C 0.10M C K1=4.17 1995HLa (27965)1226 B(ZnHL)=10.04 ***********************************	
C3H9N3O	L CAS 19728-65-5 (2703) ino)acetamidoxime; CH3.NH.CH2.C(:NOH)NH2	
Metal	Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo	
Zn++	gl NaClO4 25°C 1.00M C K1=3.53 B2=6.31 19860Sa (27974): B(ZnH-1L2)=-2.23	1227

********* C3H9N3O2 2,3-Diamin			HL				-95-4 (8549)
Metal	Mtd	Medium	Temp	Conc C	al Flags	Lg K values	Reference ExptNo
Zn++						B(ZnHL)=13.58 B(ZnH2L2)=26.29 B(ZnHL2)=19.64 B(ZnH-1L2)=0.25	2002ECa (27981)1228
C3H9O4P (Phosphony			H2L			(6694)	*******
Metal	Mtd	Medium	Temp	Conc C	al Flags	Eg K values	Reference ExptNo
							1992SCa (28015)1229 *******
С3Н906Р			HL				54-3 (7537)
Metal	Mtd	Medium	Temp	Conc C	al Flags	Lg K values	Reference ExptNo
						B(ZnH-1L)=-5.63	1990KLb (28028)1230
С3Н906Р			H2L			CAS 57-03-	
Metal	Mtd	Medium	Temp	Conc C	al Flags	Lg K values	Reference ExptNo
C3H10NO3P	****	******	***** H2L	******	******	************* 	1992LCb (28039)1231 ***********************************
Metal	Mtd	Medium	Temp	Conc C	al Flags	Lg K values	Reference ExptNo
zn++	gl	KCl	25°C	0.10M	J	K1=6.13 B2=1 K(Zn+HL)=3.44	1.97 1969DMd (28070)12
C3H10NO3P			H2L				**************************************
Metal	Mtd	Medium	Temp	Conc C	al Flags	Lg K values	Reference ExptNo
Zn++	gl	KNO3	25°C	0.10M	 C	K1=5.45 K(ZnL+H)=7.46	1993SKc (28095)1233

```
CAS 78-90-0 (2905)
C3H10N2
1,2-Diaminopropane; CH3.CH(NH2)CH2.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ vlt NaCl04 30°C 1.5M C K1=12.60 B2=15.00 1980GCb (28151)1234
Method: polarography.
______
Zn++ gl NaClO4 30°C 0.15M U M K1=6.66 1974PBb (28152)1235
                       B(ZnL(bpy))=6.12
-----
                           1962NMc (28153)1236
Zn++ gl KCl 25°C var U
K1=5.69+0.458I-0.245I^(3/2)-0.0286I^(2). In I NaClO4: K1=5.69+0.908I-
0.851I^{(3/2)} + 0.285I^{(2)}, K2 = 4.94 + 1.31I - 1.07I^{(3/2)} + 0.325I^{(2)}
-----
                      K1=5.89 B2=10.87 1945CMa (28154)1237
Zn++ gl KCl 30°C 0.50M U
                       K3=1.70
******************************
                Propanediamine CAS 109-76-2 (123)
             L
1,3-Diaminopropane; H2N.CH2.CH2.CH2.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 20°C 0.10M U
                                 1991WBa (28266)1238
                       B(ZnHL) = 14.96
                       B(ZnHL2)=20.22
-----
Zn++ nmr none 20°C 0.0 U
                                 1986DHa (28267)1239
                        K(ZnA+L)=2.2
                        K(ZnA+HL)=1.6
In D2O. A = trien
Zn++ nmr none 20°C 0.0 U
                                 1986DHb (28268)1240
                        K(ZnA+HL)=0.60
                        K(ZnA+L)=1.30
In D20. A = tren
Zn++ gl KNO3 25°C 0.10M U M K1=6.00 1982KJa (28269)1241
                     K(Zn2(CdTA)+2L)=13.31
_____
Zn++ vlt NaClO4 30°C 1.5M C M K1=12.70 B2=14.00 1980GCb (28270)1242
                       B(Zn(en)L)=15.48
Method: polarography.
**********************
         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
______
Zn++ gl KNO3 25°C 1.00M C H K1=5.66 B2=10.18 1982ABc (28353)1243
```

```
By calorimetry: DH1=-12.1 kJ mol-1, DS1=67.7; DH(B2)=-27.4, DS(B2)=102.9
-----
      gl oth/un 10°C ->0 U T H K1=5.47 B2=9.96 1959MBa (28354)1244
DH(K1)=-21 kJ mol-1, DS=4 J K-1 mol-1; DH(K2)=-14, DS=4. 20 C: K1=5.39,
K2=4.36; 30 C: K1=5.29, K2=4.23; 40 C: K1=5.08, K2=4.26
***************
C3H10N2O
                           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
-----
    gl KNO3 30°C 1.0M U K1=4.60 B2=9.02 1955GFa (28380)1245
******************************
             H4L
C3H11N06P2
                             (6772)
(Dimethylamino)-N-methylenediphosphonic acid; (CH3)2N.CH(PO3H2)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KCl 25°C 0.10M M K1=9.27 1978GMf (28407)1246
                        K(Zn+HL)=7.19
*********************************
C3H11N06P2
             H4L
                            (6735)
N-Methylimino-N,N-bis(methylenephosphonic acid); CH3.N(CH2PO3H2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl
                         K1=9.68
            25°C 0.20M C
                                  1999MKa (28431)1247
                         B(ZnHL)=15.47
                         B(ZnH2L)=19.58
                         B(ZnH-1L)=-0.25
                         B(ZnH-2L)=-11.95
*K(ZnL)=-9.93; K(ZnOH+L)=9.14; K(ZnOH+ZnL=Zn(OH)L+Zn)=-0.54
-----
                        K1=10.44 1993SKc (28432)1248
Zn++ gl KNO3 25°C 0.10M C
                        K(ZnL+H)=5.83
Zn++ gl NaClO4 25°C 0.10M U
                         K1=8.90 B2=14.62 1988LDa (28433)1249
                         B(ZnHL)=15.46
                         B(ZnH2L2)=31.44
*********************************
                            CAS 40291-99-9 (1346)
C3H11N07P2
1-Hydroxy-3-aminopropyl-1,1-diphosphonic acid; (H2O3P)2C(OH).CH2.CH2.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl NaCl 37°C 0.15M C
Zn++
                                  1999ZJa (28455)1250
                         K1=14.55
                         K(ZnL+H)=6.33
                         K(ZnHL+Zn)=4.86
                         K(ZnL+3H)=14.80
**********************************
```

```
C3H11N3
                            CAS 21292-99-6 (2975)
Propane-1,2,3-triamine; H2N.CH2.CH(NH2).CH2.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C
                     K1=6.50 B2=11.42 1998ZMa (28479)1251
                         B(ZnHL)=13.75
                         B(ZnH-1L)=-2.89
                         B(ZnH-2L)=-12.80
                         B(ZnHL2)=19.08
B(ZnH-1L2)=0.81.
______
Zn++ gl NaCl 25°C 0.15M C H K1=6.66 B2=11.55 1997CSa (28480)1252
                         B(ZnHL)=13.97
                         B(ZnHL2)=19.49
By calorimetry: DH(K1)=-22 kJ mol-1, DS=53 J K-1 mol-1; DH(K2)=-26, DS=6;
DH(Zn+HL)=-20, DS=-16; DH(ZnL+HL)=-21, DS=-9; DH(ZnHL+L)=-23, DS=30
______
Zn++ gl KCl 20°C 0.10M U
                        K1=6.75 1950PSa (28481)1253
                         K(Zn+HL)=4.25
**********************************
            H6L NTPA CAS 6419-19-8 (2920)
C3H12N09P3
Nitrilotris(methylenephosphonic acid); N(CH2PO3H2)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C
                         K1=16.3 1997DBb (28527)1254
                         K(ZnL+H)=6.1
                         K(ZnH2L+H)=4.0
                         K(ZnHL+H)=4.89
                         K(ZnH3L+H)=2.5
Zn++ cal KNO3 25°C 1.00M U TIH
                                   1990V0a (28528)1255
DH(K1)=-11.4 kJ mol-1; DS=240 J K-1 mol-1. DH(Zn+HL)=42.9, DS=295
_____
Zn++ gl KNO3 25°C 0.10M C
                         K1=14.6
                                  1989SAa (28529)1256
                         K(ZnL+H)=6.34
                         K(ZnHL+H)=5.12
                         K(ZnH2L+H)=3.9
______
                         K1=14.75 1988VSa (28530)1257
Zn++ gl KNO3 25°C 0.10M U
                         K(Zn+HL)=8.98
                         K(Zn+H2L)=6.84
                         K(Zn+H3L)=4.92
_____
Zn++ gl alc/w 25°C 10% U
                         K1=14.71 1987SHa (28531)1258
                         K(ZnL+H)=6.24
                         K(ZnHL+H)=5.19
                         K(ZnH2L+H)=4.10
```

In 10% ethanol/H2O; I=0.1 M NaClO4.

```
gl KCl 25°C 0.1M M
Zn++
                           K1=16.37
                                     1975MNa (28532)1259
                           K(Zn+HL)=10.43
                           K(Zn+H2L)=8.18
                           K(Zn+H3L)=6.35
                           K(Zn+H4L)=3.46
********************************
              H6L
                               (7924)
Tris(dihydroxy-phosphonylmethyl)phosphineoxide;
       Mtd Medium Temp Conc Cal Flags Lg K values
                                       Reference ExptNo
______
      gl R4N.X 20°C 0.10M C
Zn++
                           K1=9.4
                                     1977ANb (28608)1260
                           K(Zn+H2L)=4.41
                           K(ZnHL+H)=5.14
                           K(ZnL+H)=7.91
**********************************
C4H3N2O2Br
              H2L
                   5-Bromouracil
                            CAS 51-20-7 (8651)
5-Bromo-2,4-dihydroxypyrimidine;
   Mtd Medium Temp Conc Cal Flags Lg K values
                                       Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.10M C
                         М
                                     2000SSd (28680)1261
                           K(Zn+HL)=6.78
                           K(Zn+L+2OH)=18.96
                           K(ZnLOH+OH)=3.93
Also data for ternary complexes.
**********************************
                   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
       gl NaNO3 25°C 0.10M U
                        M K1=6.10
                                     1996SGa (28689)1262
Zn++
                           K(ZnA+L)=7.02
A is adenine.
**********************************
C4H3N2O2I
              H2L
                   5-Iodouracil
                             CAS 696-07-1 (8652)
5-Iodo-2,4-dihydroxypyrimidine;
 Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaNO3 25°C 0.10M C
Zn++
                                     2000SSd (28698)1263
                           K(Zn+HL)=5.86
                           K(Zn+L+2OH)=18.24
                           K(ZnLOH+OH)=3.74
Also data for ternary complexes.
*********************************
                   Thiovioluric
              H3L
                             CAS 23036-77-3 (2000)
2-Thio-4,5,6(H)-pyrimidinetetrone 5-oxime
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl diox/w 30°C 50% U K1=3.21
                              1973CSb (28715)1264
Medium: 50% dioxan, 0.1 M NaClO4
**********************************
       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
-----
    gl KNO3 25°C 0.50M U K1=0.18 B2=0.93 1988KLa (28767)1265
L Pyrazine
                       CAS 290-37-9 (620)
1,4-Diazine, Pyrazine;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
______
Zn++ sp non-aq ? 100% U M
                              1990AHb (28785)1266
                      K(ZnA+L)=2.26
Medium: CH2Cl2. A=biphenyl capped mesoporphyrin. Data for other porphyrin
Zn complexes
********************************
           HL Uracil
                    CAS 66-22-8 (412)
2,4-Dihydroxypyrimidone, 2,4-Pyrimidinedione;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl R4N.X 25°C 0.10M C
                              2001BBb (28842)1267
                      K(ZnA+L)=3.45
                      K(ZnAL+OH)=4.36
                      K(Zn2A+L)=5.0
                      K(Zn2AL+L)=4.7
Medium: 0.10 M NMe4NO3. K(Zn2AL2+2OH)=7.9.
A is 1,4,7,16,19,22-hexaza-10,13,25,28-tetraoxacyclotriacontane.
______
Zn++ gl NaNO3 37°C 0.10M U M K1=3.78
                              1994MGd (28843)1268
                     B(ZnAL)=5.03
HA is 6-aminopenicillanic acid.
______
    gl NaNO3 37°C 0.15M U K1=2.39 19
B(ZnH-1L)=-4.89
Zn++
                              1990CIa (28844)1269
-----
Zn++ gl KNO3 35°C 0.10M U M K1=4.98
                              1989SRc (28845)1270
                     K(Zn(thiamine)+L)=4.35
-----
Zn++ gl KNO3 25°C 0.10M U T H K1=5.13 1983KSa (28846)1271
______
Zn++ gl KNO3 35°C 0.10M U K1=4.98 B2=9.45 1981TSa (28847)1272
______
```

```
Zn++ gl KNO3 45°C 0.10M U K1=3.5 1974KKa (28848)1273
******************************
                         CAS 123-33-1 (8346)
3,6-Dihydroxypyridazine;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     vlt mixed 25°C 30% C T H K1=8.48 1992SBb (28874)1274
Method: polarography. Medium: 30% DMSO/H2O, 0.10 M LiClO4.
Data for 15 and 35 C. DH(K1) = -54.5 \text{ kJ mol-1}, DS(K1) = -30 \text{ J K-1 mol-1}.
*******************
            H2L Thiobarbituric CAS 504-17-6 (4279)
C4H4N202S
4,6-Dihydroxy-2-mercaptopyrimidine, 2-thiobarbituric acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 31°C 0.10M U T H K1=6.74 B2=11.88 1984SJa (28881)1275
Also data for 18 and 42 C. DH(K1) = -84.3 \text{ kJ mol-1}, DS(K1) = -149 \text{ J K-1 mol-1}
DH(K2) = -51.5, DS(K2) = -71.4.
**********************************
                          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
-----
Zn++ gl KNO3 35°C 0.10M C K1=3.52 1996RRa (28929)1276
______
Zn++ gl KNO3 45°C 0.10M C K1=3.92 1986KZa (28930)1277
L 8-Azaadenine CAS 1123-54-2 (1884)
C4H4N6
8-Aza-6-aminopurine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KNO3 45°C 0.10M U K1=4.1 1973TKa (28948)1278
********************
               8-Azaguanine CAS 134-58-7 (114)
2-Amino-6-hydroxy-8-azapurine;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 25°C 50% U M K1=7.68
                                 1978MCb (28960)1279
                       K(Zn(bpy)+L)=7.35
                       K(Zn(phen)+L)=7.36
                       K(Zn(NTA)+L)=4.03
*******************************
               Maleic acid CAS 110-16-7 (111)
            H2L
cis-Butenedioic acid; HOOC.CH:CH.COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
Zn++ gl NaCl 37°C 0.15M C M K1=2.19 B2=4.67
                                       1988BCc (29027)1280
                          B(ZnH2L2)=15.72
                          B(ZnHL2)=10.52
                          B(ZnH-1L)=-5.54
Ternary complex with enalapril. Other models contain B(ZnH-1L2)=-3.22 in
place of B(ZnH-1L)
______
Zn++ gl NaClO4 37°C 0.15M C M K1=2.044 B2= 3.95 1987BVa (29028)1281
                          B3=5.309
                          B(ZnHL2)=9.988
                          B(ZnH2L2)=15.236
                          B(ZnH-1L)=-5.172
B(Zn(histamine)L)=7.245, B(ZnH(histamine)L)=13.637,
B(Zn(histamine)2L)=11.924.
-----
     vlt NaCl04 25°C 2.00M U K1=1.70 B2=2.20 1977GSa (29029)1282
                         B3=3.35
Zn++ gl oth/un 25°C 0.10M U K1=2.0 1960YYa (29030)1283
***********************************
             H2L Oxobutanedioic CAS 328-42-7 (1733)
2-Oxosuccinic acid, Oxalacetic acid; HOOC.CH2.CO.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
gl NaClO4 25°C 0.50M U TI K1=2.00 1990MOf (29249)1284
At 0.1 M, K1=2.39; at 0.2 M, K1=2.23. At 30 C and 0.5 M, K1=1.97.
______
Zn++ kin oth/un 25°C 0.27M U K1=9.0 1987TLa (29250)1285
Result given for enol form. For ligand hydrate, K1=9.3
                         K1=1.99
      kin KCl 25°C 0.50M U I
                                    1982BLb (29251)1286
                          K(2Zn+L=Zn2H-1L+H)=-2.70
                          K(ZnL(keto)=ZnL(enol))=0.70
Also in 50% dioxan/H20
Zn++ gl KCl 25°C 0.10M U
                         K1=2.412 1976RLa (29252)1287
                         B(Zn2H-1L)=-1.134
_____
     kin KCl 25°C 0.10M U
                         K1=2.411 1974CLa (29253)1288
Zn++
                        B(ZnH-1L)=-1.135
-----
                        K1=3.2 1958GHc (29254)1289
      gl oth/un 25°C 0.10M U
                         K(ZnL+Zn)=2.3
****************************
         L Methylisoxazole CAS 5765-44-6 (2045)
5-Methylisoxazole; C3H2NO.CH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
Zn++ EMF KNO3 25°C 0.50M U K1=-0.17 B2=-0.96 1977LKa (29288)1290
********************************
            HL
               Succinimide
                        CAS 123-56-8 (390)
Succinic acid imide; (CH2.CO)2NH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 0.10M M M
                               1994KTa (29305)1291
                      K(ZnA+L)=5.60
A:1,4,7,10-Tetraazacyclododecane. By kinetic methods, K=5.2
******************************
                        CAS 693-95-5 (820)
               4-Methiazole
4-Methylthiazole; C3H2NS.CH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.50M U K1=0.55 B2=0.76 1976LKb (29323)1292
*******************************
                        CAS 872-49-1 (7589)
C4H5N2Cl
5-Chloro-1-methylimidazole;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.50M M K1=1.97 1998KSa (29330)1293
*************************
C4H5N3
                        CAS 109-12-6 (1480)
2-Amino-1,3-diazine; C4H3N2.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=0.29 B2=0.88 1988KLa (29341)1294
******************************
               Cytosine CAS 71-30-7 (1096)
2-0xy-6-aminopyrimidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·-----
Zn++ gl R4N.X 25°C 0.10M C
                               2001BBb (29386)1295
                      K(Zn2A+L)=6.74
                      K(Zn2AL+OH)=5.85
Medium: 0.10 M NMe4NO3.
A is 1,4,7,16,19,22-hexaza-10,13,25,28-tetraoxacyclotriacontane.
-----
Zn++ gl NaClO4 25°C 0.10M M
                               1995LWa (29387)1296
                      K(Zn+HL)=1.13
                      K(Zn(atp)+HL)=1.67
 Zn++ gl NaNO3 37°C 0.10M U M K1=1.55
                              1994MGd (29388)1297
                      B(ZnAL)=2.83
```

```
HA is 6-aminopenicillanic acid.
______
    gl KNO3 35°C 0.10M U M K1=2.23
                                 1989SRe (29389)1298
                        B(ZnHLAsp)=8.16
                        B(ZnLAsp)=6.37
                        K(ZnL+Gly)=5.08
_____
Zn++ gl KNO3 35°C 0.10M U M
                                 1986RRe (29390)1299
                        K(Zn+HL+HA)=8.61
                        K(Zn(HL)A+H)=5.70
                        K(Zn+HL+D)=9.21
                        K(Zn+HL+C)=11.05
HA is glycine; H2D is oxalic acid; C is histamine.
Zn++ gl KNO3 35°C 0.10M U T H
                                 1983KSa (29391)1300
                        K(Zn+HL)=2.23
                        K(Zn+2HL)=3.38
______
Zn++ gl KNO3 45°C 0.10M U
                                 1978KJa (29392)1301
                       K(Zn+HL)=2.46
                       K(ZnHL+HL)=3.14
-----
Zn++ gl KNO3 45°C 0.10M U
                                 1974KKa (29393)1302
                      K(Zn+HL)=2.8
 ------
     nmr non-aq 36°C 100% U M
                                 1966WLa (29394)1303
                        K(Zn+HL)=1.39
Medium: DMSO. Ternary complexes with imidazole
*********************************
       HL
C4H5N3O2
                           (1327)
4-Oximino-3-methyl-2-pyrazolin-5-one;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 20°C 50% U T K1=2.91 B2=5.68 1981SSc (29427)1304
At 30 C: K1=2.76, B2=5.58
************************
          L 2-Me-Imidazole CAS 693-98-1 (122)
C4H6N2
2-Methyl-1,3-diazole; C3H3N2.CH3
------
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 30°C 0.20M U K1=2.82
-----
Zn++ gl NaNO3 30°C 0.20M U K1=2.83 1999PPa (29465)1306
Zn++ sp non-aq 25°C 100% C H
                                 1998RZa (29466)1307
                        K(ZnP+L)=4.75
Medium: CH2Cl2. Data for 20-35 C. P is meso-tetra(3-methylphenyl)porphyrin
```

DH=-33.8 kJ mol-1, DS=-22.6 J K-1 mol-1. Data for 3-NO2-, 3-Cl-, 3-OCH3-

```
dis oth/un 25°C 0.00 U K1=8.54
                              1987WCa (29467)1308
-----
    gl KNO3 25°C 0.50M U
                        K1=1.88 B2=3.99 1974LKa (29468)1309
                       B3=7.49
                       B4=9.32
*******************************
                Methylpyrazole CAS 453-58-3 (368)
3-Methyl-1,2-diazole; C3H3N2.CH3
-----
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 25°C 0.50M U
                       K1=1.23 B2=2.15 1975LWc (29499)1310
                       B3=2.85
******************************
                         CAS 7554-65-6 (2052)
4-Methyl-1,2-diazole; C3H3N2.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U
                        K1=1.30 B2=2.27 1978LKc (29510)1311
                       B3=2.90
                       B4=3.21
************************************
               4-Me-Imidazole CAS 822-36-6 (353)
             L
C4H6N2
4-Methyl-1,3-diazole; C3H3N2.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.50M U
                       K1=2.48 B2=5.06 1977L0a (29522)1312
                       B3=7.74
                       B4=10.52
                       B5=12.62
                       B6=13.66
 Zn++
    gl oth/un 25°C 0.15M U
                       K1=2.44 B2=4.97 1957NGa (29523)1313
                       K3 = 2.64
                       K4=2.38
*******************************
                N-Me-Imidazole CAS 616-47-7 (354)
N-Methyl-1,3-diazole; C3H3N2.CH3
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.50M M K1=2.54 1998KSa (29551)1314
     sp non-ag 25°C 100% U H
                                1991MBc (29552)1315
                       K(ZnP+L)=4.71
In toluene. P=tetraphenylporphyrin. DH(K1)=-42.9 kJ mol-1; DS(K1)=-53.1.
Also data for (X-phenyl)porphyrinato complexes: X=CF3, Cl, CH3, OCH3, NH2
```

```
cal NaNO3 25°C 1.0M C
                             1983ARa (29553)1316
DH(K1)=-20.71 \text{ kJ mol-1}, DS(K1)=-17.8 \text{ J K-1 mol-1}.
______
                     K1=2.70 B2= 4.80 1977LBb (29554)1317
     gl KNO3 25°C 0.50M M
Zn++
                     B3=7.41
                     B4=9.32
                     B5=10.23
*********************************
                       CAS 13148-65-7 (2050)
2,5-Dimethyl-1,3,4-oxadiazole; C2N2O(CH3)2
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     ISE KNO3 25°C 0.50M U K1=0.23
                            1977LGa (29612)1318
Competition with Ag
********************************
                        CAS 25081-31-6 (3003)
C4H6N205
           H2L
N-Nitrosoiminodiethanoic acid; 0:N.N(CH2.COOH)2
 Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KCl 30°C 0.10M U K1=1.4 1957TBb (29628)1319
********************************
C4H6N2O6
           H2L
                       CAS 25081-33-8 (3004)
N-Nitroiminodiethanoic acid; O2N.N(CH2.COOH)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
          30°C 0.10M U K1=1.6 1957TBb (29634)1320
     gl KCl
****************************
                       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
______
     gl KNO3 25°C 0.50M U K1=-0.09 1985GLa (29640)1321
********************
                       CAS 7063-91-4 (1422)
2-Amino-4-methylthiazole; C3HNS(CH3).NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
          25°C 0.50M U K1=0.72 1982GKa (29647)1322
   gl KNO3
C4H6N2S
            HL
               Methimazole CAS 60-56-0 (1824)
N-Methyl-2-mercaptoimidazole; C3H2N2(CH3).SH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
1977LWa (29656)1323
                      B4=2.24
Method: Ag electrode; competitive complexation with Ag(I).
-----
  gl NaClO4 25°C 0.10M U K1=7.31 B2=13.81 1977STc (29657)1324
***********************************
                        CAS 1672-50-0 (5993)
C4H6N40
4,5-Diamino-6-hydroxypyrimidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 45°C 0.10M C
                               1986KZa (29679)1325
                      K(Zn+HL)=2.75
                      K(ZnHL+HL)=3.7
********************************
                          (6481)
2-Acetylamino-1,3,4-thiadiazole-5-sulphonamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ kin NaClO4 25°C 0.10M M
                               1992KKb (29688)1326
                      K(ZnA+L)=4.9
A:1,5,9-triazacyclododecane
______
Zn++ gl alc/w 25°C 50% U K1=3.99 B2=8.159 1990FBb (29689)1327
**************************
C4H602S2
                         CAS 2224-02-4 (1225)
1,2-Dithiolane-3-carboxylic acid, Tetranorlipoic acid; C3H5S2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
   gl NaClO4 25°C 0.10M C K1=2.14
                            1978SPd (29739)1328
*******************************
                        CAS 600-18-0 (5474)
2-Ketobutanoic acid; CH3.CH2.CO.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M C K1=1.69 1982KMc (29745)1329
*******************************
               Acetoacetic aci CAS 541-50-4 (5475)
C4H603
            HL
3-Ketobutanoic acid; CH3.CO.CH2.COOH
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KCl 25°C 0.10M C K1=0.83 1982KMc (29749)1330
*******************************
           H2L
               Succinic acid CAS 110-15-6 (112)
1,4-Butanedioic acid; HOOC.CH2.CH2.COOH
```

EMF KNO3 25°C 0.50M C

Zn++

Metal	Mtd	Medium	Temp	Conc Cal	Flags Lg K values R	eference ExptNo
Zn++	gl	KNO3	25°C	0.1M C	K1=2.0 1999 K(Zn+HL)=1.29	VZa (29872)1331
Zn++	vlt	oth/un	25°C	0.1M U	K1=2.3 1995	
Zn++	gl	NaCl	25°C	0.50M C	K1=0.85 1989	FRa (29874)1333
Zn++	gl	NaClO4	37°C	0.15M C	K1=2.96 B2=5.09 B(ZnHL)=7.46	1977RWc (29875)1334
Zn++	dis	NaClO4	25°C	1.00M U	K1=1.48 B2=2.00	1974MSc (29876)1335
Zn++ 35Cl probe		oth/un	3°C	0.50M U	K1=2.33 1973 K(Zn+HL)=2.14	HAb (29877)1336
		oth/un			K1=2.47 1967 K(Zn+HL)=1.51	MNc (29878)1337
Zn++ DH(K1)=18.	cal	KCl	25°C	0.10M U		MNc (29879)1338
Zn++	dis	oth/un	25°C	0.0 U	K1=3.22 1966	RMb (29880)1339
Zn++	gl	NaClO4	20°C		K(Zn+HL)=0.96	CAa (29881)1340
Zn++	gl	oth/un	25°C		K1=1.6 1960	
Zn++	gl	oth/un	25°C	? U		GHc (29883)1342
Zn++					K(Zn+HL)=0.90	CKa (29884)1343
**************************************	****	*****	***** HL		**************************************	
Acetoxyeth	anoi	c acid;			yacetic a CAS 13831-30-6 DOH 	
Metal			-		Flags Lg K values R	
Zn++	gl ****	NaNO3 *****	30°C ***** H2L	0.40M U ******* Me-Mal	K1=0.67 1970 ******************* onic Acid CAS 516-15-2 (*****
Metal	Mtd	Medium	Temp	Conc Cal	Flags Lg K values R	eference ExptNo
Zn++	gl	KNO3	25°C	0.10M C	H K1=2.64 B2=4.04 K(Zn+HL)=1.05	1989ABa (30107)1345

```
B(ZnL(bpy))=7.64
```

```
DH(K1)=12.8 kJ mol-1, DS(K1)=93.3 J K-1 mol-1
-----
Zn++ gl NaClO4 25°C 0.10M U K1=2.55 19680Va (30108)1346
Zn++ con oth/un 25°C .001M U K1=3.10 1931IRb (30109)1347
********************************
                Thiodiacetic
                          CAS 123-93-3 (140)
             H2L
2,2'-Thiodiglycolic acid, Thiodiethanoic acid; HOOC.CH2.S.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 35°C 0.10M C M K1=3.70 1999DSb (30195)1348
Zn++
                        B(ZnAL)=6.48
A is thiamine hydrochloride.
-----
Zn++ gl KNO3 35°C 0.10M U M
                                 1990RSd (30196)1349
                        B(Zn(asp)L)=5.61
                        K(ZnL+en)=5.49
                        K(ZnL+his)=6.62
                        K(ZnL+A)=2.30
K(ZnL+met)=4.58, K(ZnL+B)=4.52, K(ZnL+trp)=4.38,
K(ZnL+HC)=4.34. A is imidazole, HB is phenylalanine, H2C is tyrosine.
______
      gl NaCl04 25°C 0.10M U TIH K1=3.20 B2= 5.87 1982DBb (30197)1350
Data for 0.2, 0.3 M. At I=0, K1=3.14, K2=2.62. Data for 35 and 45 C.
DH(K1)=-11.6 \text{ kJ mol}-1, DS(K1)=21.6 \text{ J K}-1 \text{ mol}-1; DH(K2)=-3.5, DS(K2)=38.6.
______
Zn++ gl oth/un 25°C 0.10M U K1=2.9 1960YYa (30198)1351
______
Zn++ gl KCl
            30°C 0.10M U K1=3.0 1957TBb (30199)1352
C4H604S
            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
______
Zn++ gl KCl 25°C 0.10M C B2=14.16
                                 2002CDc (30295)1353
                        B(Zn2L2)=18.74
                        B(Zn2H-1L2)=10.26
                        B(Zn2H-2L2)=0.82
                        B(ZnHL2)=20.3
-----
                      K1=7.04 B2=13.43 1988NDa (30296)1354
Zn++ gl NaClO4 30°C 0.10M U
-----
Zn++ gl NaCl 37°C 0.15M C
                        B2=14.586
                                 1986FIa (30297)1355
                        B(ZnHL)=12.569
                        B(Zn2HL2)=23.360
                        B(Zn2L2)=19.365
```

Zn++	gl	KNO3	20°C 0.10M U	K1=8.09 1977CAd (30298)1356 K(Zn+HL)=2.12
Zn++	gl	NaClO4	20°C 0.10M U	K1=8.36 B2=14.88 1970AMa (30299)1357
Zn++	gl	KNO3	25°C 0.10M U	K1=8.82 B2=14.71 1969PPa (30300)1358 K(Zn+HL)=2.53
K1=8.75(25	Ċ),	8.85(30	35°C 0.10M U T H C); K2=6.82(25 C) , DS=226(?) J K-1 r	
			25°C 0.10M U I K(ZnLOH+H)=8.01	K1=8.24 B2=14.56 1965LMa (30302)1360 K(ZnLOH+H)=8.36
******** C4H604S2	****	*****	25°C ? U ***********************************	K1=8.47 B2=13.75 1959CFa (30303)1361 ********** CAS 2418-14-6 (4264) (SH).CH(SH).COOH
Metal	Mtd	Medium	Temp Conc Cal Flag	gs Lg K values Reference ExptNo
Zn++	gl	KC1	25°C 0.10M C	2002CDc (30389)1362 B(Zn2L2)=33.29 B(Zn2HL2)=39.73 B(Zn2H2L2)=44.10
			37°C 0.15M U	B2=19.46 1984JSb (30390)1363 B(Zn2L2)=34.08 B(Zn2HL2)=40.07 B(Zn2H2L2)=44.57 B(ZnHL3)=34.35
C4H6O4S2 Dithiodiet	hano		H2L ; H00C.CH2.S.S.CH2	CAS 505-73-7 (3585)
				gs Lg K values Reference ExptNo
Data for 0	.2,	0.3 M.		K1=2.73 1982DBb (30408)1364 ata for 35 and 45 C. mol-1.
	_			K1=1.6
C4H6O4S2 meso-2,3-D	imer	captobu	H4L tanedioic acid (me	CAS 304-55-2 (3002) so-dithiotartaric acid)
		Medium		gs Lg K values Reference ExptNo

Zn++	gl KM	NO3 25°C 0.10	B(ZnH B(Zn2 B(Zn2	19 L)=20.08 H-1L2)=23.6 L2)=33.6 HL2)=39.6	91HCa (30424)13	66
Zn++	gl Na	aCl04 20°C 0.10		5.82 19 ZnL)=3.85	70AMa (30425)13	 67
Zn++	gl KN	NO3 25°C 0.10	K (ZnL K (ZnL K (ZnH	+Zn)=4.07 +H)=5.7 L+H)=3.4	65LMa (30426)13	68
Zn++	gl KN	NO3 25°C 0.10	K(Zn+ K(Zn+ K(ZnL		4 1965LMa (304	 27)1369
		20°C 0.10	K(ZnL K(Zn+ K(Zn+ K(Zn+	5.82 B2=19.3 +Zn)=3.85 HL)=9.6 H2L)=2.8 ZnL)=3.57	9 1955ASa (304	 28)1370
********* C4H6O4Se	********	, K(ZnL20H+H)=9 ************** H2L acid; H00C.CH2	******	**************************************	**************************************	***
Metal	Mtd Me	edium Temp Conc	Cal Flags Lg K	values	Reference Expt	No
Zn++	gl KN	NO3 25°C 0.10		.18 19 HL)=1.05	75LPa (30443)13	71
C4H605	******	************** H2L Ma	lic acid	**************************************	66SYa (30444)13 ********* (393) .CH2.CH(OH).COO	***
Metal	Mtd Me	edium Temp Conc	Cal Flags Lg K	values	Reference Expt	No
Zn++	gl Na	aCl04 37°C 0.15	B(ZnH	.007 B2= 5.3 (2L)=9.834	2 1987BVa (305	 48)1373
			B(ZnH	L)=6.815 L2)=9.686		
B(ZnH-1L):	=-1.655,	, B(Zn(histamin	B(ZnH	L2)=9.686 2L2)=13.389	L)=13.970.	

B(ZnHL)=6.24 B(ZnH-1L)=-3.64 B(ZnH2L)=8.87

					B(ZnH2L)=8.8/	
Zn++	gl	NaClO4	20°C	0.10M U	K(Zn+H2L)=1.66 K(Zn+HL)=2.93	1963CAa (30550)1375
Zn++	kin	oth/un	25°C	->0 U	K1=3.32 K(Zn+HL)=2.00	1951BWa (30551)1376
Zn++		KCl		0.20M U	K1=2.80 K(Zn+HL)=1.57	1938CKa (30552)1377
C4H605			H2L	Diglycolic	acid CAS 110-99 oic acid; HOOC.C	-6 (243)
Metal	Mtd	Medium	Temp	Conc Cal Flag	s Lg K values	Reference ExptNo
	Ü			0.10M U M	K1=3.52 B(ZnAL)=7.56 B(ZnBL)=6.76	1989NDb (30824)1378
H2A is mal	eic a	acid; Hi	2B is	malonic acid. 		
Zn++	gl	KC1	25°C	0.10M C	K1=3.65	1984MMg (30825)1379
	.Ž, (0.3 M. /	4t Ι=6		ta for 35 and 45	1982DBb (30826)1380 C.
Zn++	gl	KNO3	25°C	0.10M C	K1=3.59 B(ZnHL)=6.03	1975FCc (30827)1381
Zn++	gl	KNO3	25°C	0.10M U	K1=3.58	1975MTc (30828)1382
Zn++	gl	oth/un	25°C	0.10M U	K1=3.6	1960YYa (30829)1383
C4H6O6 DL-Tartari	**** c ac:	****** id,DL-2	***** H2L ,3-Di	*********** DL-Tartaric hydroxybutaned	**************************************	1957TBb (30830)1384 *********** -9 (94) CH(OH).CH(OH).COOH
				Conc Cal Flag	s Lg K values	Reference ExptNo
C4H606	****	*****	***** H2L	********** L-Tartaric	acid CAS 87-69-	*****************

Metal	Mtd Medium Temp Conc Cal Flags L	g K values Reference ExptNo
	2-5.0 mM tartaric acid eluent. At	1=2.75 1992LHb (31136)1386 40 C, K1=2.76
	gl NaClO4 37°C 0.15M C M K B3: B() B()	1=2.245 1987BVa (31137)1387 =6.447 ZnHL)=5.479 Zn2L2)=7.659 ZnH-1L2)=-2.222
	B3:	1=2.0 B2=3.0 1983KJa (31138)1388 =4.3
Zn++	dis NaClO4 23°C 1.00M U K	1=3.22 1978PSb (31139)1389
Zn++	gl NaClO4 37°C 0.15M C K B(i B(i	1=2.58 B2=4.50 1976MTa (31140)1390 ZnHL)=5.59 ZnHL2)=8.22
	dis oth/un 25°C 0.0 U K	1=3.31 B2=5.16 1966RMb (31141)1391
Zn++	ISE oth/un 20°C var U K(K() K()	1=3.09 B2=4.98 1963FLb (31142)1392 Zn+H-1L)=6.33 Zn+HL)=1.22 o=-6.54
	dis NaClO4 20°C 0.10M U K	1=2.69
Zn++	ix oth/un ? ? U K	2=5.62 1957KPb (31144)1394
	EMF KCl 25°C 0.20M U K	1=2.68 1938CKa (31145)1395 Zn+HL)=1.44
C4H7N02		**************************************
	Mtd Medium Temp Conc Cal Flags L	g K values Reference ExptNo
Zn++ ***********************************	gl KNO3 25°C 0.10M C K	1=5.5 B2=10.60 1989ARa (31438)1396 ********** CAS 444-27-9 (1183)
Metal	Mtd Medium Temp Conc Cal Flags L	g K values Reference ExptNo
Zn++	B3:	1=3.190 B2=5.753 1981HMa (31468)1397 =7.883 ZnL(His))=8.87

```
Zn++ gl NaClO4 25°C 0.15M U K1=3.103 B2=5.629 1976FJa (31469)1398
*****************************
C4H7N02S2
                          CAS 2030-77-5 (4281)
2-Dithiocarbaminopropanoic acid; CH3.CH(NH.CSSH).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ EMF NaCl04 25°C 1.00M U K1=3.55 B2=6.47 1972RBb (31475)1399
CAS 40520-03-4 (4280)
N-(Dithiocarboxy)aminopropanoic acid; HSSC.NH.CH2.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      oth oth/un ? ? U K1=3.55 B2=6.47 1973RBc (31479)1400
**************************
C4H7N03
                          CAS 543-24-8 (3586)
N-Acetylglycine; CH3.CO.NH.CH2.COOH
 Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ gl NaNO3 30°C 0.40M U K1=0.71 1970BTa (31494)1401
************************
            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
-----
                     M K1=8.01 2003AHa (31718)1402
Zn++ gl KNO3 25°C 0.10M C
                       K(ZnL+A)=3.90
HA is 3-amino-5-mercapto-1,2,4-triazole.
   gl NaNO3 25°C 0.10M C M K1=6.82 B2=11.64 2000KAb (31719)1403
                       K(ZnA+L)=7.08
H2A=Dipicolinic acid.
Zn++ gl NaNO3 25°C 0.10M C
                       K1=5.69 B2= 9.77 2000MSa (31720)1404
                       B(ZnH-1L)=-3.20
______
Zn++ gl KNO3 25°C 0.10M C M K1=7.05
                                1999AAa (31721)1405
                       K(ZnL+A)=3.52
                       B(ZnLA)=10.57
                       K(ZnL+B)=3.70
                       B(ZnLB)=10.75
K(ZnHL+C)=1.61. HA=MOPSO, HB=MOPS, HC=TAPSO.
                       K1=5.78
      gl NaNO3 30°C 0.20M U
Zn++
                                1999PPa (31722)1406
                       B(ZnAL)=8.86
                       B(ZnCL)=8.71
```

```
B(ZnDL)=8.68
A is imidazole, C is 2-Me-imidazole, D is 2-Et-imidazole.
______
     vlt NaClO4 25°C 1.0M C
                                        1999VKc (31723)1407
                             B(ZnLA)=6.48
                             B(ZnLA2)=9.91
                             B(ZnL2A)=11.04
Method: polarography. Medium pH: 8.5. A is 4-picoline.
-----
Zn++ gl NaNO3 25°C 0.10M U M K1=5.69 B2= 9.77 1998MSe (31724)1408
                             B(ZnH-1L)=-3.20
                             B(ZnAL)=9.88
                             B(ZnH-1AL)=-2.90
                             B(Zn2AL2)=18.73
B(Zn2(H-1A)L2)=12.18. A is imidazole.
 -----
Zn++ gl NaCl04 25°C 0.20M U M K1=5.74 B2= 9.83 1997PJa (31725)1409
                             K(Zn(bpy)+L)=4.89
                             K(Zn(phen)+L)=5.68
                             K(ZnA+L)=5.24
                             K(Zn(his)+L)=4.69
A is 2,2'-bipyridylamine. K(Zn(ida)+L)=4.97.
Zn++ gl KNO3 25°C 0.10M M M K1=8.01 1996AEa (31726)1410
Data for ternary complexes with dipicolinic acid.
_____
Zn++ gl NaClO4 25°C 1.0M U M K1=5.67 B2= 9.03 1995KDa (31727)1411
                             K3=1.26
                             B(ZnLA)=6.83
                             B(ZnLA2)=9.81
                             B(ZnL2A)=11.05
Medium pH 8.50. HA is propanoic acid.
______
Zn++ gl NaClO4 25°C 0.20M U T M K1=5.74 B2= 9.83 1993PPa (31728)1412
                             K(ZnA+L)=5.52
A is 2,2'-bipyridylamine. Also data for 35 and 45 C.
Zn++ gl NaCl04 37°C 0.15M U M K1=5.71 B2=9.65 1992NAa (31729)1413
                             B(ZnLA)=11.70
                             B(ZnLB)=11.73
                             B(ZnL(Orn))=12.28
HA=2,3-Diaminopropanoic acid, HB=2,4-diaminobutanoic acid
Zn++ gl KNO3 30°C 0.10M U
                                        1990APa (31730)1414
                             K(Zn+H2L=ZnL+2H)=-7.35
                             *K(ZnL) = -8.71
                             K(Zn+2H2L=ZnL2+4H)=-16.50
                             K(Zn+HL=ZnL+H)=-3.95
      Zn++ gl NaClO4 25°C 1.00M U K1=5.64 B2=9.62 1990BFa (31731)1415
```

B3=12.38 B(ZnHL)=10.49 B(ZnHL2)=16.12 B(ZnH2L3)=26.50

Zn(Hg) and	l gla	ss elec	trodes	5			B(ZIIIIZL3)-20.30
Zn++ H2A is N-(М	1989MAd (31732)1416 K(ZnA+L)=9.15 B(ZnAL)=16.00
Zn++ A=bis(imid					U	 М	K1=5.23 B2=9.32 1989RVa (31733)1417 K(ZnA+L)=4.57
Zn++ A is 2,2'-				0.20M	U		K1=5.74 B2= 9.83 1988PPc (31734)1418 K(ZnA+L)=5.52
						М	K1=5.76 B2=10.09 1985DVa (31735)1419 K(ZnL+H)=7.75 K(Zn(IDA)+L=Zn(IDA)L)=3.85
					U		K1=5.90 B2=10.17 1983LWb (31736)1420
Zn++	gl	KNO3	25°C	0.10M	М		K1=5.77 B2= 9.82 1981GVa (31737)1421
Zn++	gl	NaNO3	30°C	0.20M	С		K1=5.79 B2=10.05 1981RSd (31738)1422
Zn++	gl	NaClO4	25°C	0.31M			K1=5.66 B2=10.14 1979GRb (31739)1423
Zn++	gl	KC1	30°C	0.10M	U	М	K1=5.85 B2=10.17 1979SJb (31740)1424 K(ZnL+Thiomalate)=6.57 K(ZnL+Thiodiglycolate)=6.93
Zn++	gl	NaC104	37°C	0.15M	C		K1=6.01 B2=10.10 1976MTa (31741)1425 B(ZnHL)=11.88 B(ZnL2H-2)=-10.41
Zn++	gl	NaClO4	30°C	0.20M	U		K1=5.74 B2=9.83 1975JBb (31742)1426
Zn++	nmr	oth/un	32°C	0.50M	U		K1=5.40 B2=8.55 1973HAb (31743)1427 K(Zn+HL)=1.19
35Cl probe							
					U		K2=4.5 1973IYa (31744)1428 K(ZnL+H)=5.3
Mediun: 0.	1 M	asparti	c acio	d 			
Zn++	gl	oth/un	15°C	.005M	U		B2=10.4 1953PEa (31745)1429

```
Medium: 0.005 M ZnSO4
______
     gl oth/un 20°C 0.01M U B2=10.4
                                1952ALa (31746)1430
-----
Zn++ gl KCl 30°C 0.10M U K1=5.84 B2=10.15 1952CMb (31747)1431
***********************************
            H2L
                IDA
                         CAS 142-73-4 (118)
C4H7N04
Iminodiethanoic acid; HN(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 35°C 0.10M C M K1=7.79
                                1999DSb (32128)1432
                       B(ZnAL)=10.04
A is thiamine hydrochloride.
______
    gl NaNO3 25°C 0.10M M
                       K1=7.04
                                1996KSc (32129)1433
-----
Zn++ gl NaClO4 25°C 0.20M M M
                                1996VBa (32130)1434
                       K(Zn(ala)+L)=4.50
                       K(Zn(phe)+L)=4.03
                       K(Zn(tyr)+L)=3.91
                       K(Zn(trp)+L)=4.11
K(Zn(gly-gly)+L)=2.99, K(Zn(gly-ala)+L)=2.93, K(Zn(en)+L)=4.94
______
                      K1=6.97 B2=12.39 1992GLa (32131)1435
Zn++
      gl NaClO4 25°C 0.50M U
                       B(ZnH-1L)=-1.31
                       B3=11.76
______
                    M K1=7.00 B2=12.39 1992NAa (32132)1436
Zn++ gl NaClO4 37°C 0.15M U
                       B(ZnLA)=12.04
                       B(ZnL(Orn))=12.45
HA=2,4-diaminobutanoic acid
______
   gl NaClO4 37°C 0.15M U M K1=7.00 B2=12.39 1992RAc (32133)1437
                       B(ZnHL2)=18.17
B(CuLZn)=13.13, B(CuL2Zn)=20.13; B(NiLZn)=10.99, B(NiL2Zn)=18.44
      gl KNO3
7n++
           25°C 0.10M C M K1=7.24
                                1991DAc (32134)1438
Data for ternary complexes with acetohydroxamic acid
______
     gl KNO3 25°C 0.10M C M K1=7.24
                                1990DAb (32135)1439
Zn++
                       K(ZnL+A)=4.01
                       B(ZnLA)=11.25
H2A: salicylaldoxime
-----
      gl KNO3 25°C 0.10M C M K1=7.24
                                1990DAc (32136)1440
Zn++
                       K(ZnL+A)=3.59
                       B(ZnAL)=10.83
HL: benzohydroxamic acid
-----
```

```
K1=7.44 1985SNa (32137)1441
K1=7.63 by spectrophotometry
Zn++ EMF KCl 25°C 0.10M U
------
     cal KNO3 25°C 0.50M U H
                                       1983VRa (32138)1442
DH(K1)=-11.34 \text{ kJ mol}-1, DH(B2)=-27.91
Zn++ gl NaClO4 25°C 0.10M U TIH K1=5.95 B2=10.37 1982DBb (32139)1443
Data for 0.2, 0.3 M. At I=0, K1=5.08, K2=3.96. Data for 35 and 45 C.
DH(K1) = -5.77 \text{ kJ mol-1}, DS(K1) = 91.5 \text{ J K-1 mol-1}; DH(K2) = -4.23, DS(K2) = 68.2.
______
       gl KNO3 25°C 0.10M U I K1=7.2 B2=12.45 1981FMb (32140)1444
Interpolated from graph. Data also for 20, 50, 80% v/v MeOH/H2O
______
Zn++ gl NaNO3 30°C 0.20M C K1=6.98 B2=12.12 1981RSe (32141)1445
-----
Zn++ gl KCl 25°C 0.10M U T HM
                                       1978KCc (32142)1446
                            K(ZnL+A)=6.74
                            K(ZnL+B)=11.69
                            K(ZnL+C)=11.08
DH(K1)=-17.6 kJ mol-1, DS=70 J K-1 mol-1. H2A=oxalic acid, H2B=malonic acid,
H2C=phthalic acid
______
      nmr oth/un 32°C 0.10M U K1=6.11 B2=11.03 1973HAb (32143)1447
35Cl probe
______
Zn++ gl KNO3 25°C 0.10M U M
                                       1971TSh (32144)1448
                            K(ZnL+Ala)=3.98
                            K(ZnL+Gly)=4.38
                            K(ZnL+Asp)=4.59
------
Zn++ gl KNO3 30°C 0.10M U M
                                       1971TSj (32145)1449
                            K(ZnL+A)=5.14
A=1,2-diaminopropane
Zn++ gl oth/un 25°C 1.50M U M 1970FDa (32146)1450
                            B(ZnL(SCN)(NH3)2)=11.35
                            B(ZnL(NH3)(SCN)2)=10.25
                            B(ZnL(SCN)3)=9.02
                            B(ZnL(S203)(NH3)2)=11.92
B(ZnL(NH3)(S203)2)=11.59; B(ZnL(S203)3)=11.15
Zn++ gl oth/un 25°C 1.50M U M K1=7.03 1970FDa (32147)1451
                            B(ZnL(NH3))=9.42
                            B(ZnL(py))=7.98
                            B(ZnL(NH3)2)=11.02
                            B(ZnL(py)2)=8.33
Data for other ternary complexes also given
______
      EMF oth/un 30°C 0.10M U M
                                       1970STf (32148)1452
                            K(ZnL+en)=4.96
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```
K(ZnL+A)=5.14
A=1,2-diaminopropane
______
     gl KNO3 20°C 0.10M U H K1=7.27 B2=12.60 1964ANa (32149)1453
By calorimetry: DH(K1)=-9.2 kJ mol-1, DS=107.4 J K-1 mol-1
DH(B2) = -24.7, DS = 157
-----
Zn++ gl oth/un 25°C 0.10M U K1=7.03 B2=12.17 1957SYb (32150)1454
-----
Zn++ gl KCl 30°C 0.10M U K1=7.03 B2=12.17 1952CMa (32151)1455
******************************
                         (1234)
C4H7N05
N-Hydroxyiminodiethanoic acid; HO.N(CH2.COOH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KNO3 25°C 0.10M C K1=5.5 B2=9.46 1987AKa (32420)1456
______
Zn++ gl KNO3 25°C 0.10M U K1=5.5 B2=9.46 1987BKa (32421)1457
CAS 14068-53-2 (1456)
2-Amino-5-ethyl-1,3,4-thiadiazole; C2N2S(C2H5).NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.50M U K1=0.56 1985GLa (32443)1458
CAS 13275-68-8 (1427)
C4H7N3S
2-Ethylamino-1,3,4-thiadiazole; C2HN2S.NHC2H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=0.53 B2=0.61 1982GLa (32449)1459
************************
C4H8N02Cl
                         (8170)
3-Chloro-2-aminobutanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=4.75 B2= 8.67 1981TMe (32467)1460
Also data for the schiff based formed with pyridoxal.
*********************************
C4H8NO4P
           H2L
                         (7286)
5-Oxopyrrolidine-2-phosphonic acid; PO3H2.C4H6NO
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

K1=2.09

B(ZnH-1L)=-5.97B(ZnH-2L)=-13.96

1996MKa (32471)1461

Zn++ gl KCl 25°C 0.20M C

K(Zn+OH+L)=8.97 K(Zn+2OH+L)=13.54

Additional	method: n	mr. Data al	so for 2- *****	methyl and 2	2-methyl-2 ******	-phenyl a	nalogs *****
C4H8N2O2 2,3-Butane				oxim CAS 95 e; CH3.(C:NO	•	•	
Metal	Mtd Mediu	ım Temp Conc	Cal Flag	s Lg K value		eference	
				K1=7.7 **********************************	B2=13.9	1954CFa	(32518)1462
C4H8N2O3		HL As	paragine	CAS 70	9-47-3 (1		
Metal	Mtd Mediu	ım Temp Conc	Cal Flag	s Lg K value	es R	eference	ExptNo
	•			K1=5.82 nic acid.	1996	AEa (3264	4)1463
			М С	K1=4.43 B3=9.35	B2=7.95	1996BFa	(32645)1464
Method: Zn	/Hg electr						
				K1=4.40 B3=10.43 B(ZnAL)=6.1 B(ZnA2L)=8. B(ZnAL2)=9.	13 .48 .83	1991KNb	(32646)1465
				is ethanoic			
Zn++	gl NaClC	04 21°C 0.10	мм м	K1=4.25 B(Zn(gly)L) B(ZnH-1(gly	=10.01	1989WLa	(32647)1466
Zn++	gl NaClC	04 21°C 0.10	M U	K1=4.52	B2=7.86	1983LWb	(32648)1467
Zn++	gl KNO3	25°C 0.10	M U T H	B2=8.62	1980	ZYb (3264	9)1468
				T K1=5.070 B3=12.300			•
Zn++ Medium: 0.	gl oth/u 005 M ZnSC	ın 15°C .005 04	M U	B2=8.5	1953	PEa (3265	51)1470
Zn++ ***********************************	gl oth/u ******	ın 20°C 0.01 *****	M U ****** y-Gly	B2=8.7 ************************************	1950 *****	ALa (3265	52)1471
Metal	Mtd Mediu	ım Temp Conc	Cal Flag	s Lg K value	es R	eference	ExptNo

```
Zn++ gl NaCl04 25°C 0.20M U M K1=3.78 B2= 6.52 1997PJa (32945)1472
                          K(Zn(bpy)+L)=3.36
                          K(Zn(phen)+L)=3.73
                          K(ZnA+L)=3.57
                          K(Zn(his)+L)=3.32
A is 2,2'-bipyridylamine. K(Zn(ida)+L)=3.25.
-----
Zn++ gl NaClO4 25°C 0.20M M K1=3.74 1996VBa (32946)1473
______
Zn++ gl NaClO4 25°C 0.20M M M K1=3.745 B2= 6.61 1994VBb (32947)1474
                          B(ZnH-1L)=-3.556
B(Zn(Ala)L)=8.854, B(Zn(Phe)L)=8.693, B(Zn(Tyr)L)=8.768,
B(Zn(Trp)L)=8.910, B(Zn(His)L)=10.874, B(ZnH(His)L)=16.801.
______
Zn++ gl NaCl04 25°C 0.20M M K1=3.745 B2= 6.61 1994VBc (32948)1475
-----
      nmr KCl 25°C 0.60M U M K1=0.74 B2=3.47 1992CPa (32949)1476
                      B(ZnL(cytidine))=4.01
______
Zn++ gl KNO3 25°C 0.10M U K1=3.62 1992LPc (32950)1477
-----
Zn++ gl NaClO4 37°C 0.15M U M K1=3.78 B2=6.60 1990NJa (32951)1478
                         B(ZnL(His))=8.75
                          B(ZnL(histamine))=8.21
                         B(ZnL(imidazole))=5.43
______
Zn++ gl NaNO3 37°C 0.15M M M K1=3.37 B2=6.91 1987MOb (32952)1479
                         B(ZnLA)=6.77
                          B(ZnLA3)=12.56
A=imidazole. Also B(ZnL2B)=13.81, B(ZnLB2)=15.16, B(ZnH4LB2)=47.69, where
B=pyridoxamine. Also ternary ZnHLAB complexes.
______
Zn++ oth NaClO4 35°C 0.10M C M K1=3.20 B2= 5.29 1986SYa (32953)1480
                          K(Zn(nta)+L)=2.22
Method: paper electrophoresis. Medium pH 8.5.
Zn++ gl NaNO3 35°C 0.10M U M K1=3.50 1985KSc (32954)1481
                          K(ZnL+CMP)=2.06
H2CMP=cytidine-5'-monophosphoric acid
______
Zn++ gl KCl 25°C 0.20M C M
                                    1984KDb (32955)1482
                          K(Zn(DOPA)+L)=3.23
                          B(ZnHL(DOPA))=23.46
Ternary data also with Dopamine, Adrenaline and Noradrenaline
H3DOPA=3,4-dihydroxyphenylalanine
   gl KCl 20°C 0.20M U K1=3.25 B2=6.20 1982KRc (32956)1483
_____
Zn++ gl NaClO4 37°C 0.15M U K1=3.574 B2=5.880 1975CMa (32957)1484
```

B3=8.015 B(ZnHL)=9.150

Zn++	vlt	KNO3	25°C	1.0M U		K1=3.70	B2=6.97	1974NBa	(32958)1485
Zn++	gl	KNO3	25°C	0.10M U		K1=3.45	B2=6.31	1972BBc	(32959)1486
Zn++ Temperatur K1(10 C)=3	e ra	nge 10-	40C					1972PEb	(32960)1487
Zn++ Temperatur K1(10 C)=5	e ra	nge 10-	40C			K1=5.02 60, B2(40		1972PEb	(32961)1488
Zn++ K1(39.1%)=					I	K1=4.91	B2=8.86	1972PEb	(32962)1489
Zn++	gl	diox/w	25°C	60% U		K1=5.87	B2=10.43	1972PEb	(32963)1490
Zn++ Medium: 0.				0.80M U		K1=3.13 K(Zn+HL)=0		2RLb (3296	54)1491
Zn++ 0 C: K1=4.	_		25°C	.058M U	T	K1=3.91	B2=7.22	1961SMa	(32965)1492
Zn++	gl	KCl	20°C	1.0M U		K1=2.62	195	9PEc (3296	56)1493
Zn++	gl	oth/un	25°C	0.01M U		K1=3.6	195	4PEa (3296	57)1494
Zn++ Medium: Zn		oth/un	21°C	0.01M U		B2=6.4	195	2PEa (3296	58)1495
Zn++ ******									(32969)1496
C4H8N2O4 Hydrazine-			H2L	HDA		CAS 1	9247-05-3		
Metal	Mtd	Medium	Temp	Conc Ca	l Flags	Lg K valu	es	Reference	ExptNo
Zn++	gl	KCl	30°C			K1=6.0		1957TBb	(33076)1497
Zn++ ***********************************	****	*****	***** H2L	0.01M U	*****	K1=6.7 ********	195 ****** 69)	******	******
Metal	Mtd	Medium	Temp	Conc Ca	l Flags	Lg K valu	es 	Reference	ExptNo
									

```
Zn++ gl KCl 25°C 0.20M C
                         K1=7.44
                                   1993FBa (33129)1499
                         B(ZnHL)=13.91
                         B(Zn2HL)=20.30
                         B(Zn2L)=11.72
                         B(Zn2H-1L)=2.11
Zn++ gl KCl
            25°C 0.20M C
                         K1=7.44 B2=11.72 1990FBa (33130)1500
                         B(ZnHL)=13.91
                         B(ZnHL2)=20.30
                         B(ZnH-1L2)=2.11
*******************************
C4H80S2
                           CAS 6253-38-9 (589)
(Propoxy)dithiomethanoic acid; CH3.CH2.CH20.CSSH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     vlt KNO3 25°C 0.40M C
                                  1984HSb (33194)1501
                         B3=9.00
Method: polarography.
------
     dis KNO3 25°C 1.00M U
                        K1=3.2 B2=6.3
                                     1983SAa (33195)1502
*******************************
C4H80S2
                           CAS 108-25-8 (8865)
              HL
Isopropoxydithiomethanoic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ vlt KNO3 25°C 0.40M C
                                   1984HSb (33199)1503
                        B3=10.15
Method: polarography.
*************************
            HL
                 Isobutyric acid CAS 79-31-2 (573)
2-Methylpropanoic acid; CH3.CH(CH3).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaNO3 25°C 0.10M C I M K1=1.01
                                   1988LTc (33219)1504
                         K(Zn(phen)+L)=0.90
Data also for 50% v/v EtOH/H2O, and 50% v/v Dioxan/H2O mixtures
**********************************
                            CAS 107-92-6 (1118)
C4H802
n-Butanoic acid; CH3.CH2.CH2.COOH
  ______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      oth NaClO4 25°C 2.0M U
                         K1=0.95
                                   1990FTa (33306)1505
Methods: averaged results from potentiometric, polarographic and
spectrophotometric measurements.
______
     EMF NaClO4 25°C 2.00M U
                        K1=0.97 B2=1.65 1973FPa (33307)1506
Zn++
```

			B3=1.73 B4=2.57
Zn++	EMF NaClO4 2		K1=0.98 B2=0.70 1970FMa (33308)1507 B3=2.16
Zn++	vlt NaClO4 2		K1=1.00 B2=1.11 1968FPa (33309)1508 B3=1.18 B4=1.53
Method: H ******	electrode *******	******	K1=1.00 1938CKa (33310)1509 ***********************************
•	obutanoic acid	; CH3.CH2.CH(• •
		emp Conc Cal	Flags Lg K values Reference ExptNo
******* C4H802S		0°C 0.10M U *************	K(Zn+HL)=2.20 ***********************************
Metal	Mtd Medium T	emp Conc Cal	Flags Lg K values Reference ExptNo
			Flags Lg K values Reference ExptNo K1=6.20 B2=9.20 1972TBc (33363)1511 B4=15.85
Zn++ ******** C4H802S	vlt NaClO4 2	5°C 1.00M U ***********	K1=6.20 B2=9.20 1972TBc (33363)1511 B4=15.85 ***********************************
 Zn++ ********* C4H802S S-Ethylth	vlt NaClO4 2 ******** ioethanoic aci	5°C 1.00M U ******* HL d; CH3.CH2.S. emp Conc Cal	K1=6.20 B2=9.20 1972TBc (33363)1511 B4=15.85 **************** CAS 627-04-3 (3007) .CH2.COOH Flags Lg K values Reference ExptNo
**************************************	vlt NaClO4 2 ******* ioethanoic aci Mtd Medium T cal NaNO3 2	5°C 1.00M U ********* HL d; CH3.CH2.S. emp Conc Cal 5°C 1.0M U	K1=6.20 B2=9.20 1972TBc (33363)1511 B4=15.85 ***************** CAS 627-04-3 (3007) CH2.COOH Flags Lg K values Reference ExptNo H K1=0.74 B2= 1.20 1977ARa (33393)1512 K3=-0.06
**************************************	vlt NaClO4 2 ******** ioethanoic aci Mtd Medium T cal NaNO3 2	**************************************	K1=6.20 B2=9.20 1972TBc (33363)1511 B4=15.85 ***************** CAS 627-04-3 (3007) .CH2.COOH Flags Lg K values Reference ExptNo H K1=0.74 B2= 1.20 1977ARa (33393)1512 K3=-0.06 =37
**************************************	vlt NaClO4 2 ******** ioethanoic aci Mtd Medium T cal NaNO3 2	5°C 1.00M U ********** HL d; CH3.CH2.S. emp Conc Cal 5°C 1.0M U 2)=0, DH(K3)= 5°C 50% U	K1=6.20 B2=9.20 1972TBc (33363)1511 B4=15.85 *********************** CAS 627-04-3 (3007) CH2.COOH Flags Lg K values Reference ExptNo H K1=0.74 B2= 1.20 1977ARa (33393)1512 K3=-0.06 =37
	vlt NaClO4 2 *********** ioethanoic aci Mtd Medium T cal NaNO3 2 kJ mol-1, DH(K gl diox/w 2 0% dioxan, 0.1	5°C 1.00M U ********** HL d; CH3.CH2.S. emp Conc Cal 5°C 1.0M U 2)=0, DH(K3)= 5°C 50% U M NaClO4 5°C 1.00M U	K1=6.20 B2=9.20 1972TBc (33363)1511 B4=15.85 ******************************* CAS 627-04-3 (3007) CH2.COOH Flags Lg K values Reference ExptNo H K1=0.74 B2= 1.20 1977ARa (33393)1512 K3=-0.06 =37 K1=2.22 1972SGa (33394)1513 K(Zn(bpy)+L)=2.18 K1=0.73 B2=1.20 1970SAa (33395)1514 B3=1.15
**************************************	vlt NaClO4 2 ********* ioethanoic aci Mtd Medium T cal NaNO3 2 kJ mol-1, DH(K gl diox/w 2 0% dioxan, 0.1 ISE NaClO4 2	5°C 1.00M U *********** HL d; CH3.CH2.S. emp Conc Cal 5°C 1.0M U 2)=0, DH(K3)= 5°C 50% U M NaClO4 5°C 1.00M U 5°C 1.00M U	K1=6.20 B2=9.20 1972TBc (33363)1511 B4=15.85 ****************************** CAS 627-04-3 (3007) CH2.COOH Flags Lg K values Reference ExptNo H K1=0.74 B2= 1.20 1977ARa (33393)1512 K3=-0.06 =37 K1=2.22 1972SGa (33394)1513 K(Zn(bpy)+L)=2.18 K1=0.73 B2=1.20 1970SAa (33395)1514

C4H8O3 2-Hydroxy-	-	HL noic acid; (CH3)2C		(81)
Metal	Mtd Medium Te	emp Conc Cal Flags	Lg K values	Reference ExptNo
Zn++	EMF NaClO4 25		K1=1.70 B2=2.99 K3=0.4	1967TGa (33436)1517
	uinhydrone elec		*******	******
C4H8O3 2-Hydroxyb	-	HL CH3.CH2.CH(OH).CO	CAS 965-70-8 00H	(423)
Metal	Mtd Medium Te		Lg K values	Reference ExptNo
Methods: a	oth NaClO4 25	5°C 2.0M U ts from potentiome		90FTa (33567)1518 c and
Zn++	EMF NaC104 25		K1=1.72 B2=3.02 B3=3.84 B4=4.24	1973FPa (33568)1519
********* C4H8O3	***************************	******	K1=2.05 193 ************************************	******
Metal			Lg K values	Reference ExptNo
Zn++ Methods: a	Mtd Medium Te	emp Conc Cal Flags 5°C 2.0M U ts from potentiome		 90FTa (33606)1521
Zn++ Methods: a	Mtd Medium Te oth NaClO4 25 averaged result	emp Conc Cal Flags 5°C 2.0M U ts from potentiome	Lg K values K1=0.99 199 etric, polarographic	 90FTa (33606)1521
Zn++ Methods: a spectropho Zn++	Mtd Medium Te oth NaClO4 25 averaged result otometric measu	emp Conc Cal Flags 5°C 2.0M U ts from potentiome urements. 7°C 0.15M C	K1=0.99 199 Etric, polarographic K1=5.81 199 K1=0.99 B2=1.71 B3=1.49 B4=2.50	90FTa (33606)1521 c and
Zn++ Methods: a spectropho Zn++ Zn++ Zn++ Method: H	Mtd Medium Te oth NaClO4 25 everaged result otometric measu gl NaClO4 37 EMF NaClO4 25	emp Conc Cal Flags 5°C 2.0M U ts from potentiome urements. 7°C 0.15M C 5°C 2.00M U	K1=0.99 199 Etric, polarographic K1=5.81 199 K1=0.99 B2=1.71 B3=1.49 B4=2.50 K1=1.06 199	90FTa (33606)1521 c and 76MTa (33607)1522
Zn++ Methods: a spectropho	Mtd Medium Te oth NaClO4 25 everaged result otometric measu gl NaClO4 37 EMF NaClO4 25 electrode e***********************************	emp Conc Cal Flags 5°C 2.0M U ts from potentiome urements. 7°C 0.15M C 5°C 2.00M U ***********************************	K1=0.99 199 Etric, polarographic K1=5.81 197 K1=0.99 B2=1.71 B3=1.49 B4=2.50 K1=1.06 199 E***********************************	90FTa (33606)1521 c and 76MTa (33607)1522
Zn++ Methods: a spectropho	Mtd Medium Te oth NaClO4 25 everaged result otometric measu gl NaClO4 37 EMF NaClO4 25 electrode e***********************************	emp Conc Cal Flags 5°C 2.0M U ts from potentiome urements. 7°C 0.15M C 5°C 2.00M U ***********************************	K1=0.99 199 Etric, polarographic K1=5.81 199 K1=0.99 B2=1.71 B3=1.49 B4=2.50 K1=1.06 199 **********************************	POFTa (33606)1521 c and 76MTa (33607)1522 1973FPa (33608)1523 38CKa (33609)1524 ************************************

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************************************
C4H803
                  Ethoxyacetic ac CAS 627-03-2 (2996)
Ethoxyacetic acid; C2H5.O.CH2.COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     cal NaNO3 25°C 1.0M U H K1=1.13 B2= 1.87 1977ARa (33668)1526
Zn++
                         K3 = -0.09
DH(K1)=4.5 \text{ kJ mol}-1, DH(K2)=5.0, DH(K3)=15
                         K1=1.13 B2=1.87 1970SAa (33669)1527
   ISE NaClO4 25°C 1.00M U
                         B3=1.8
**********************************
                            CAS 110-01-0 (150)
Tetrahydrothiophene; cyclo(-CH2.CH2.S.CH2.CH2-)
-----
      Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
______
Zn++ gl alc/w 25°C 50% C K1=-0.21 1979SRa (33726)1528
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
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     sp oth/un 25°C ? U M
                                   1981CKb (33783)1529
                        K(Zn(C6H5)4porphin+L)=-0.30
                         K1=2.26 B2=4.46 1969PDa (33784)1530
Zn++ ISE R4N.X 25°C 2.00M U
                         K3=2.26
                         K4=2.20
Medium: NH4NO3
************************************
         HL
                 Aminoisobutyric CAS 144-90-1 (188)
2-Amino-2-methylpropanoic acid; H2N.C(CH3)2.COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl KNO3 35°C 0.10M C M K1=4.78 B2= 9.21 1998ZWa (33829)1531
Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-
2,10-dione dioxime
_____
    gl KCl 25°C 0.50M U M K1=3.85 B2=8.88
Zn++
                                      1966LHc (33830)1532
                         B(ZnAL)=6.28
                         B(ZnA2L2)=12.6 (pptn.)
HA=glyoxylic acid
Zn++ gl KCl 20°C 0.10M U K1=4.55 B2=8.55 1963IPa (33831)1533
-----
Zn++ gl oth/un 19°C 0.01M U B2=8.8
                                   1952PEa (33832)1534
```

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Medium: ZnSO4
**********************************
                 2-Aminobutyric CAS 2835-81-6 (571)
2-Aminobutanoic acid; CH3.CH2.CH(NH2).COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KCl 25°C 0.05M U K1=4.50 B2=8.65 1972GMb (33893)1535
Zn++ gl KCl 40°C 0.20M U T H K1=4.68 B2=8.44 1965SMb (33894)1536
K1=4.87(15 C),4.78(25 C); K2=3.96(15 C),3.90(25 C)
DH(K1)=-13.0 kJ mol-1,DS=46.0 J K-1 mol-1; DH(K2)=-13.8,DS=29.3
______
Zn++ gl KCl 30°C 0.10M U K1=4.55 B2=8.26 1964PCa (33895)1537
______
Zn++ gl oth/un 15°C .005M U B2=7.2 1953PEa (33896)1538
Medium: 0.005 M ZnSO4
______
Zn++ gl oth/un 20°C 0.01M U B2=8.3
                                 1952PEa (33897)1539
Medium: ZnSO4
**********************************
                          CAS 623-33-6 (3011)
Glycine ethyl ester; H2N.CH2.CO.OCH2CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 30°C 1.0M U K1=1.79 B2=3.69 1966HJa (34000)1540
******************************
                 Dimethylglycine CAS 1118-68-9 (88)
N,N-Dimethyl-2-aminoethanoic acid; (CH3)2N.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 21°C 0.10M M K1=3.58 B2=6.99 1984LOb (34026)1541
                        B(ZnH-1L2)=-3.88
*******************************
                           CAS 88806-98-8 (3019)
2-Amino-3-mercaptopropanoic acid methyl ester, cysteine methyl ester;
HSCH2CH(NH2)COOCH3
         Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C T M K1=8.28
                                  2000RRa (34050)1542
                        B(ZnLA)=17.09
H2A is histidine methyl ester. Data for 35 and 45 C.
DH(ZnLA) = -177 \text{ kJ mol} -1, DS(ZnLA) = -266 \text{ J K} -1 \text{ mol} -1.
                         B2=15.91
Zn++ gl KNO3 25°C 0.10M U
                                  1969PPd (34051)1543
                        B(ZnHL)=11.90
                        B(ZnHL2)=20.76
```

K(Zn+L=ZnLOH+H)=0.41 K(ZnLOH+H)=7.8

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-----
    gl KNO3 25°C 0.15M U K1=2.35 1955LMa (34052)1544
*******************************
                Methylcysteine CAS 1187-84-4 (84)
             HL
2-Amino-3-methylmercaptopropanoic acid; H2N.CH(CH2.S.CH3)COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaClO4 25°C 0.10M M K1=4.30 B2=12.12 1993GVa (34082)1545
______
Zn++
     oth NaCl04 30°C 0.10M C M K1=4.55 B2= 8.70 1991TSc (34083)1546
                       K(Zn(nta)+L)=3.72
Method: electrophoresis. Medium: pH 5.8.
-----
Zn++ gl KNO3 25°C 0.10M M M
                                1989SHd (34084)1547
                       K(Zn(nta)+L)=2.84
Zn++ gl KNO3 25°C 0.10M U K1=4.46 B2=8.52 1964LMa (34085)1548
**********************************
            HL
C4H9NO2S
                          CAS 29768-80-7 (2597)
2-Amino-4-mercaptobutanoic acid; HOOC.CH(NH2).CH2.CH2.SH
______
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl KNO3 25°C 0.10M M M
                                 1989SHd (34110)1549
                       K(Zn(nta)+L)=4.91
                       K(Zn(nta)+H+L)=13.83
***********************
                Threonine CAS 72-19-5 (48)
             HL
2-Amino-3-hydroxybutanoic acid; H2N.CH(CH(OH).CH3)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                Reference ExptNo
______
     vlt NaClO4 25°C 1.0M C
Zn++
                     Μ
                                 1999VKc (34244)1550
                       B(ZnLA)=4.96
                       B(ZnLA2) = 7.93
                       B(ZnL2A)=10.16
Method: polarography. Medium pH: 8.5. A is 4-picoline.
______
Zn++ gl NaClO4 25°C 1.0M U M K1=4.34 B2= 7.46 1995KDa (34245)1551
                       K3=2.16
                       B(ZnLA)=6.27
                       B(ZnLA2) = 8.69
                       B(ZnL2A)=10.09
Medium pH 8.50. HA is propanoic acid.
------
    gl NaCl04 25°C 0.20M U T M K1=5.16 B2= 9.35 1993PPa (34246)1552
                       K(ZnA+L)=4.85
```

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A is 2,2'-bipyridylamine. Also data for 35 and 45 C.
______
Zn++ gl NaCl 37°C 0.15M U M
                                   1991HWa (34247)1553
                         B(ZnLA) = 9.161
                         B(ZnHLA)=16.330
                         B(ZnH2LA) = 20.398
H2A is 7-oxabicyclo-[2,2,1]-hept-5-ene-2,3-dicarboxylic acid
______
Zn++ gl KNO3 25°C 0.10M C M
                             1989MAd (34248)1554
                         K(ZnA+L)=4.14
                         B(ZnAL)=10.99
H2A is N-(2-acetamido)imino diethanoic acid.
-----
Zn++ gl KNO3 35°C 0.20M U M K1=4.69 B2=8.53 1989RVa (34249)1555
                         K(ZnA+L)=4.21
A=bis(imidazol-2-yl)methane
______
Zn++ gl NaClO4 27°C 0.20M U M K1=5.16 B2= 9.35 1988PPc (34250)1556
                        K(ZnA+L)=4.85
A is 2,2'-dipyridylamine.
-----
Zn++ gl NaCl 37°C 0.15M U M K1=4.52 B2=7.89 1986XHa (34251)1557
                         B(ZnHL)=10.13
                         B(ZnH-1L)=-2.93
                         B(ZnL(His))=10.70
                         B(ZnH-1L(His))=1.832
B(ZnL(His)2)=14.66
______
Zn++ gl KNO3 25°C 0.10M U K1=4.66 1985MKa (34252)1558
______
Zn++ gl oth/un 30°C 0.20M U M K1=5.16
                                   1984J0b (34253)1559
                        K(Zn(bpy)+L)=4.89
Medium: not stated.
Zn++ gl KCl 25°C 0.20M C M K1=4.53 B2=8.38 1981GEa (34254)1560
                         B(ZnH-1L)=-4.09
                         B(ZnH-1L2)=-1.5
B(ZnL(His))=10.10. Ligand: L-Threonine
Zn++ gl KCl 25°C 0.20M C M K1=4.54 B2=8.40 1981GEa (34255)1561
                         B(ZnH-1L)=-4.0
                         B(ZnH-1L2)=-1.5
B(ZnL(His))=10.48. Ligand: D-Threonine
-----
Zn++ gl KCl 25°C 0.20M C
                         K1=4.54 B2=8.45 1981GEa (34256)1562
                         B(ZnH-1L)=-4.2
                         B(ZnH-1L2)=-1.4
DL-isomer
-----
Zn++ gl NaClO4 37°C 0.15M U T K1=4.47 B2=8.28 1980KBa (34257)1563
```

```
gl KCl 25°C 0.05M U T
                        K1=4.67 B2=8.66 1972GMb (34258)1564
20-35C
K1(20 \text{ C})=4.71, K1(35 \text{ C})=4.60, K2(20 \text{ C})=4.02, K2(35 \text{ C})=3.92
     gl KNO3
            40°C 0.20M U T H K1=4.76 B2=8.44 1968RMb (34259)1565
Zn++
K1=4.79(15 C),4.74(25 C); K2=3.85(15 C),3.77(25 C)
DH(B2)=-18.8 kJ mol-1, DS=100.3 J K-1 mol-1
______
Zn++ gl oth/un 20°C .005M U B2=8.6
                                  1953PEa (34260)1566
Medium: 0.005 ZnSO4
**********************************
             HL Homoserine
                           CAS 1927-25-9 (578)
2-Amino-4-hydroxybutanoic acid; HO.CH2.CH2.CH(NH2).COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M U K1=4.54 B2=8.06 1971BDc (34353)1567
*************************
                            CAS 4385-95-9 (1894)
2-Aminooxybutanoic acid; CH3.CH2.CH(0.NH2).COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3
            25°C 0.50M U K1=1.95
                                  1985WTa (34363)1568
*******************************
C4H10N05P
                             (6029)
             H3L
2-Amino-3-phosphonatobutanoic acid; CH3.CH(H2O3P).CH(NH2).COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KCl 20°C 0.10M U
                        K1=7.13
                                   1987BDc (34448)1569
                        K(Zn+HL)=2.78
********************************
C4H10N05P
             H3L
                            CAS 6323-99-5 (6043)
2-Amino-4-phosphonatobutanoic acid; H2O3P.CH2.CH2.CH(NH2)COOH
-----
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KCl 25°C 0.20M C
                               B2=10.48 1996MKa (34458)1570
Zn++
                        K1=5.94
                        B(ZnHL)=12.39
Additional method: nmr.
______
    gl KCl 25°C 0.20M C
                         K1=6.55 B2=10.72 1989KFb (34459)1571
                         B(ZnHL)=13.18
                        K1=6.08
     gl KCl
             20°C 0.10M U
                                  1987BDc (34460)1572
                        K(Zn+HL)=3.68
*********************************
```

```
C4H10N05P
            H3L
                          CAS 18865-31-1 (7285)
4-Amino-4-phosphonobutanoic acid; H2N(PO3H2)CHCH2CH2COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KCl 25°C 0.20M C K1=6.51 1996MKa (34466)1573
Additional method: nmr.
**********************************
C4H10N06P
                          CAS 6401-59-8 (2399)
O-Phospho-2-methylserine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.20M C K1=5.93 B2=10.38 1978MAc (34472)1574
                       K(Zn+HL)=1.90
                       K(ZnHL+L)=1.89
                       K(ZnL+H)=6.04
********************************
C4H10N06P
                         CAS 1114-81-4 (2400)
O-Phospho-threonine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 25°C 0.20M C K1=6.00 B2=10.29 1978MAc (34480)1575
                       K(Zn+HL)=2.25
                      K(ZnL+H)=5.92
*************************
                        CAS 56123-06-9 (8023)
C4H10N2
1,3-Diamino-2-methylenepropane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=4.63 B2= 9.35 1975HSb (34487)1576
C4H10N2O2
                          CAS 1883-09-6 (45)
2,4-Diaminobutanoic acid; H2N.CH2.CH2.CH(NH2)COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 37°C 0.15M U K1=7.84 B2=12.55 1993NAd (34559)1577
                      B(Zn2L2)=20.32
______
Zn++ gl NaClO4 37°C 0.15M U M
                                 1990NTb (34560)1578
                       B(Zn(glu)L)=11.29
                       K(Zn(glu)+L)=5.9
Zn++ gl NaClO4 37°C 0.15M C M B2=13.44
                                1986NPa (34561)1579
                       B(ZnHL)=14.22
                       B(ZnH2L2)=27.04
                       B(ZnHL2)=21.47
```

```
B(ZnLA)=12.87; B(ZnHLA)=19.65; A=histamine. Also histidine
    gl KCl 25°C 0.20M C
Zn++
                      K1=6.70
                           B2=12.30 1981FGb (34562)1580
                     B(ZnHL)=13.97
                     B(ZnH2L2)=27.55
                     B(ZnHL2)=20.32
______
Zn++ gl oth/un 20°C 0.01M U B2=12.8 1952ALa (34563)1581
(2557)
C4H10N2O2
2-Amino-3-(methylamino)propanoic acid, CH3.NH.CH2.CH(NH2)COOH
 -----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=5.98 B2=11.45 1989NOa (34573)1582
                     B(ZnHL)=13.22
                     B(ZnH2L2)=24.9
                     B(ZnHL2)=18.97
                     B3=14.54
***********************************
            HL
               EDMA
Diaminoethane-N-ethanoic acid; H2N.CH2.CH2.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
______
           25°C 0.50M C K1=8.064 B2=13.655 1985LEa (34586)1583
Zn++ gl KCl
______
Zn++ vlt NaClO4 25°C 0.30M U K1=8.22
                             1974KOb (34587)1584
______
     vlt oth/un 25°C 0.20M U K1=8.20
                             1970FUa (34588)1585
Medium: Na ethanoate
***********************************
C4H10N2O4S
               ACES
                        CAS 7365-82-4 (7488)
N-(2-Acetamido)-2-aminoethanesulfonic acid;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 25°C 0.10M C M K1=4.39
                              2001AAa (34615)1586
Also data for ternary complexes with 5'-GMP, 5'-IMP and 5'-CMP.
_____
     gl KNO3
          25°C 0.10M C
                     K1=3.85
                             2000ADa (34616)1587
Zn++
**********************************
C4H10N4O2
                        CAS 4146-43-4 (2564)
1,4-Butanedioic acid dihydrazide; H2N.NH.CO.CH2.CH2.CO.NH.NH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.20M U K1=1.95 B2=4.24 1974FSa (34644)1588
______
```

```
vlt NaClO4 25°C 1.0M U
Zn++
                           K1=2.26
                                  B2=4.34 1968SUa (34645)1589
                           B3=5.10
                           B4=4.63
**********************************
C4H1002S
                              CAS 111-48-8 (4275)
3-Thiapentan-1,5-diol; HO.CH2.CH2.S.CH2.CH2.OH
-----
      Mtd Medium Temp Conc Cal Flags Lg K values
                                      Reference ExptNo
______
Zn++ gl NaClO4 25°C 1.0M C K1=-0.18 1979SRa (34675)1590
*************************
C4H1002S2
              H2L Dithiothreitol CAS 3483-12-3 (8164)
Threo-2,3-Dihydroxy-1,4-dithiobutane
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl KNO3 25°C 0.10M C
                          K1=11.06 B2=17.95 2001KLb (34693)1591
                           B(Zn3L4)=50.9
                           B(ZnH-1L2)=7.5
B(ZnH-1L2) by spectrophotometry.
******************************
               L Butylamine
                             CAS 109-73-9 (159)
1-Aminobutane; CH3.CH2.CH2.CH2.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      cal non-aq 25°C 100% C IH
                                     2002LVa (34745)1592
                           K(ZnP+L)=3.66
                           K(ZnPL+L)=3.02
Medium: CCl4. ZnP: Zn(II)tetraphenylporphyrine. DH(ZnP+L)=-48.37 kJ mol-1,
DS=-92 J K-1 mol-1; DH(ZnPL+L)=-15.16, DS=7. Data for related alkylamines.
                     -----
Zn++
       sp non-aq 25°C 100% U
                                     1994IUa (34746)1593
                           K(ZnP+L)=4.88
Medium: CHCl3. ZnP is a zinc porphyrin host.
       sp non-aq 15°C 100% U M
                                     1993MEa (34747)1594
                           K(ZnA+L)=3.65
                           K(ZnB+L)=3.20
In chloroform. A=5,15-Bis(2-hydroxy-1-naphthyl)-2,3,7,8,12,13,17,18-octa-
ethylporphine, B=5,15-Bis(2-methoxy-1-naphthyl) deriv. of A
*****************************
               L
                   Diethylamine CAS 109-89-7 (1331)
C4H11N
Diethylamine, 3-azapentane; (C2H5)2NH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                       Reference ExptNo
______
       sp non-aq 25°C 100% U
                                     1994IUa (34801)1595
                           K(ZnP+L)=4.08
Medium: CHCl3. ZnP is a zinc porphyrin host.
```

```
ISE R4N.X 25°C 2.00M U
                          K1=2.97 B2=5.57 1968PMc (34802)1596
Zn++
                          K3=2.34
                          K4=1.92
                          B4=9.82
Medium: NH4NO3
***********************************
                             CAS 110-73-6 (900)
2-(Ethylamino)ethanol; CH3.CH2.NH.CH2.CH2.OH
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      vlt KNO3 25°C 0.10M U
                          K1=5.34 B2=6.18 1980AAa (34834)1597
                          B3=7.15
*********************************
               L
                  Diethanolamine CAS 111-42-2 (89)
2,2'-Iminodiethanol; HN(CH2.CH2.OH)2
·-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp R4N.X 25°C 2.00M C I K1=2.52 B2=4.40 1983DBa (34932)1598
______
Zn++ gl KNO3 25°C 2.00M U K1=2.38 1970URa (34933)1599
Zn++ vlt alc/w 25°C 100% U I
                         B2=14.85
                                   1964MSd (34934)1600
                          B3=15.30
Medium: EtOH, 0.01 NaClO4. B2=6.6(0%), 7.48(20%), 8.15(40%), 8.18(60%), 9.18(80%),
11.6(94\%); B3=8.08(0%),8.43(20%),9.46(40%),12.48(94%);B4=9.11(0%),16.52(100)
                Tris buffer CAS 77-86-1 (550)
C4H11N03
2-Amino-2-(hydroxymethyl)-propan-1,3-diol; (HO.CH2)3C.NH2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      vlt NaCl
              25°C 0.50M C I
                                    1990PAa (35036)1601
                          K1eff=2.47 (pH 8)
                          B2eff=3.23 (pH 8)
Method: polarography. At pH 9, K1eff=3.44, B2eff=3.66.
-----
    gl NaCl 25°C 0.15M C K1=2.271 1983BSa (35037)1602
gl KNO3 25°C 0.10M C M K1=1.94
                                    1979FHa (35038)1603
                          K(Zn(ATP)+L) < 1.8
********************************
C4H11N08P2
                            CAS 2439-99-8 (2129)
N-Carboxymethyl-N,N-bis(methylenephosphonic acid); HOOC.CH2.N(CH2.PO3H2)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=14.46
                                   2000SDa (35093)1604
```

K(ZnL+H)=5.25 K(ZnHL+H)=4.22 K(ZnH2L+H)=2.7 K(ZnL+OH)=2.6

```
K1=14.7 1985PMc (35094)1605
    ix NaNO3 RT 0.10M U
______
                       K1=13.48 1974NKa (35095)1606
Zn++ gl KCl 25°C 0.10M U
                       K(Zn+HL)=8.18
                       K(Zn+H2L)=6.02
********
C4H11NS
                          CAS 108-02-1 (1792)
1-Mercapto-2-(N,N-dimethyl)aminoethane; HS.CH2.CH2.N(CH3)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
           20°C 0.25M U I K1=6.92 B2=13.44 1973MSd (35132)1607
      gl KNO3
0.25 KN03, 25% MeOH: K1=7.30, K2=6.89, 25% EtOH, K1=7.71, K2=7.38
********************************
C4H11N2O4P
                           (7118)
Alanylaminomethylphosphonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     gl KNO3 25°C 0.10M C K1=3.817
                                1995HLa (35151)1608
                       B(ZnH-1L)=-3.79
******************************
C4H11N3
                         CAS 171868-16-9 (7833)
cis-3,4-Diaminopyrrolidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M C K1=4.93 B2= 8.89 2001KSa (35160)1609
                       B(ZnHL)=12.68
                       B(ZnH-1L2)=-0.38
*********************************
C4H11N30
                           (2704)
2-(Dimethylamino)acetamidoxime; (CH3)2N.CH2.C(:NOH)NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 1.00M C K1=2.50 B2=4.19 19860Sa (35166)1610
CAS 471915-94-3 (8550)
C4H11N3O2
2,4-Diamino-N-hydroxybutanamide;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C
                        K1=7.13
                              B2=12.05 2002ECa (35173)1611
                       B(ZnHL)=14.34
```

```
B(ZnH-1L)=-0.96
B(ZnHL2)=20.77
B(ZnH-1L2)=1.6
```

B(ZnH-1L2)=1.6********************************* C4H11N203P (7917)(Glycylamino)methyl(methylphosphinic acid); ______ Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ Zn++ gl KNO3 25°C 0.10M C K1=3.571 B2= 6.19 2001LKa (35198)1612 B(ZnHL)=9.61B(ZnH-2L)=-13.50********************************* C4H110PS2 CAS 995-79-9 (4283) O-Ethyl hydrogen P-ethylphosphonodithioate; -----Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ vlt alc/w ? 90% U B2=5.5 1971TCa (35203)1613 Medium: 90% EtOH, 0.15 M NaClO4 *********************************** C4H1102PS2 CAS 298-06-6 (210) H3L 0,0'-Diethyldithiophosphoric acid; (C2H5O)2P(S)SH ______ Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ vlt mixed RT 50% C 1986HSd (35221)1614 B3=2.47Medium: 50% v/v DMF/H20. Method: polarography. ----vlt alc/w ? 90% U B2=4.5 1971TCa (35222)1615 Medium: 90% EtOH, 0.15 M NaClO4 ************************************ (5867)n-Butyl phosphoric acid; C4H9.0.PO(OH)2 ______ Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ Zn++ gl NaNO3 25°C 0.10M C K1=2.30 1988MSa (35281)1616 **************************** CAS 886-54-6 (3591) C4H11PS2 Diethylphosphinodithioic acid; (CH3.CH2)2PSSH -----Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ ? 90% U B2=6.4 vlt alc/w 1971TCa (35292)1617 Medium: 90% EtOH, 0.15 M NaClO4 ********************************** AMPPH CAS 18108-24-2 (222) 1-Amino-2-methylpropylphosphonic acid; (CH3)2.CH.CH(NH2).PO3H2

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 24°C 0.10M U K1=6.31
                                1989YKa (35305)1618
******************************
                          CAS 563-86-0 (59)
DL-2,3-Diaminobutane; H2N.CH(CH3).CH(CH3).NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U H K1=5.944 B2=11.26 1977PSb (35377)1619
                        B(ZnHL)=11.59
                        B3=14.76
By calorimetry, DH1=-18.0 kJ mol-1, DS1=53.4 J K-1 mol-1, DH(B2)=-29.9,
DS(B2)=115.4
*********************************
                 Dimeen
                          CAS 110-70-3 (125)
N,N'-Dimethyl-1,2-diaminoethane; CH3.NH.CH2.CH2.NH.CH3
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.20M C HM K1=4.47 B2=7.90 1979SGb (35414)1620
     gl KCl
Butanediamine CAS 20759-15-3 (58)
meso-2,3-Diaminobutane; H2N.CH(CH3).CH(CH3).NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 25°C 0.10M U H K1=5.45 B2=10.77 1977PSb (35487)1621
Zn++
                        B(ZnHL)=11.6
                        B3=14.63
By calorimetry, DH1=-13.9 kJ mol-1, DS1=57.7 J K-1 mol-1, DH(B2)=-30.3,
DS(B2)=105
********************************
                           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
-----
      gl KNO3
                        K1=5.74 B2=9.86 1974BVa (35499)1622
            25°C 0.50M U
                        K(ZnL+OH)=5.11
                        K(ZnL+2OH)=8.37
By calorimetry: DH(K1)=-20.1 \text{ kJ mol-1}, DS=41.4, DH(K2)=-30.1, DS=-16,
DH(ZnLOH)=1.6, DS=105
************************************
              L
                           CAS 111-41-1 (648)
C4H12N2O
N-(2-Hydroxyethyl)diaminoethane, 1,4-Diaza-7-oxaheptane; H2N.CH2.CH2.NH.CH2.CH2.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ gl NaNO3 25°C 0.10M U K1=5.28 B2=10.07 1986TSa (35535)1623
            _____
Zn++ gl oth/un 25°C 0.50M U K1=4.75 B2=10.15 1960HDa (35536)1624
**************************
C4H12N2S
                          CAS 871-76-1 (1854)
1,5-Diamino-3-thiapentane; H2N.CH2.CH2.S.CH2.CH2.NH2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            30°C 1.0M U T K1=5.31 B2=8.88 1951GOa (35560)1625
      gl KNO3
0 C: K1=5.78, K2=4.34; 50 C: K1=5.15, K2=3.44
**********************************
                          CAS 52811-47-9 (7665)
C4H12O7P2
N-Butyldiphosphoric acid;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M M K1=4.40 1999SSa (35580)1626
*******************************
C4H13N06P2
            H4L
                          CAS 5995-26-6 (1336)
N-Ethyliminobis(methylenephosphonic) acid; C2H5N(CH2PO3H2)2
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.20M C
                        K1=9.33
Zn++ gl KCl
                                 1999MKa (35599)1627
                       B(ZnHL)=15.78
                       B(ZnH2L)=20.04
                       B(ZnH-1L)=-0.22
                       B(ZnH-2L)=-11.72
*K(ZnL)=-9.55; K(ZnOH+L)=9.17; K(ZnOH+ZnL=Zn(OH)L+Zn)=-0.16.
*******************************
                          CAS 14478-63-8 (3000)
1,3-Diamino-2-aminomethylpropane; H2N.CH2.CH(CH2.NH2).CH2.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 20°C 0.10M U
                                 1962ANb (35629)1628
                       K(Zn+HL)=3.80
                       K(Zn+H2L)=1.70
********************************
C4H13N3
              L
                 Dien
                          CAS 111-40-0 (584)
1,4,7-Triazaheptane, 2,2'Iminobis(ethylamine), diethylenetriamine;
NH2.(CH2)2.NH.(CH2)2.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
                       K1=8.94 B2=13.96 2002KKa (35718)1629
Zn++ gl KCl 25°C 0.20M C
                       B(ZnHL2)=22.26
______
Zn++
    gl NaClO4 25°C 0.10M U H K1=8.92
                                1996IFb (35719)1630
```

```
*K(ZnL) = -8.93
DH(K1) = -28.9 \text{ kJ mol} -1, DS(K1) = 73.9 \text{ J K} -1 \text{ mol} -1.
     -----
                      M K1=8.81
Zn++ gl NaClO4 25°C 0.20M M
                                   1996VBa (35720)1631
                         B(Zn(ala)L)=13.53
                         B(Zn(phe)L)=13.01
                         B(Zn(tyr)L)=12.88
                         B(Zn(trp)L)=13.12
B(Zn(gly-gly)L)=11.88, B(Zn(gly-ala)L)=11.95, B(Zn(en)L)=13.85.
                        gl oth/un 21°C var U M K2=4.30 1987HMa (35721)1632
Zn++
                         K(ZnL2+H=ZnHL2)=2.70
Ternary complexes with alanine, glycine, acetate, en, pn.
Zn++
     gl NaClO4 25°C 0.10M U
                     M K1=8.92 B2=14.91 1985MSa (35722)1633
                         K(Zn(thiolactate)+L)=6.08
-----
Zn++ oth KNO3 25°C 0.10M U H
                                   1977FZa (35723)1634
DH(K1)=-27.0 kJ mol-1; DS=77.3 J K-1 mol-1
______
Zn++ gl KNO3 25°C 0.10M U
                     K1=9.1
                                B2=14.00 1973AHc (35724)1635
                        K(Zn+HL)=4.1
_______
Zn++ cal KCl 25°C 0.10M U H
                                   1961CPa (35725)1636
DG(K1)=-50.16 kJ mol-1, DH=-27.0, DS=77; DG(K2)=-31.35, DH=-42.5, DS2=-38
______
Zn++ gl oth/un 20°C 0.0 U T H
                                   1959MBa (35726)1637
DG(K1)=-49.3 kJ mol-1, DH=-27, DS=75. DG(K1)=48.1(10 C), 50.2(40 C)
Zn++ gl oth/un 20°C ->0 U T K1=8.78 1953MCa (35727)1638
30 C: K1=8.57, 40 C: K1=8.37
______
Zn++ gl oth/un 35°C 1.0M U H
                                   1952JHa (35728)1639
DH(K1) = -33.4 \text{ kJ mol} -1
______
      gl KCl 30°C 1.0M U T K1=9.14
Zn++
                                  1952JHa (35729)1640
40 C: K1=8.95
-----
Zn++ gl KCl 20°C 0.10M U K1=8.9 B2=14.4 1950PSa (35730)1641
****************************
C4H14N2O4P2
                            CAS 37107-07-6 (4287)
Ethylenebis(iminomethylenephosphonous acid)
____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=6.16 1971MMh (35826)1642
*******************************
C4H14N2O6P2
             H2L
                  EDDPO
                            CAS 1733-49-9 (2435)
1,2-Diaminoethane-N,N'-bis(methylenephosphonic) acid; (H2O3P.CH2.NH.CH2)2
```

Metal	Mtd	Medium	Temp	Conc Cal	l Flags	Lg K values	Reference ExptNo
Zn++	EMF	KC1	25°C	0.10M C		K1=9.12 B(ZnHL)=18.67 B(Zn2HL)=23.8	,
Also other				la ala ala ala ala ala ala ala a	a ala ala ala ala ala ala	•	
**************************************	****	******	***** HL			**************************************	**************************************
	5-Hex	cafluor				F3C.CO.CH2.CO	· /
Metal	Mtd	Medium	Temp	Conc Ca	l Flags	Lg K values	Reference ExptNo
	.strib	oution :	from :		Cl04 in	K(ZnL2(org)+A K(ZnL2(org)+2 to CCl4/HL/tr	, ,,,
oxide (A).	K(Zn	ı+2HL(oı	rg)=Zı	nL2(org)+	+2H)=-5	.2.	
K1(I=1)=1.	0, K1	L(I=3)=	1.1				1971SIa (35917)1645 ************************************
C5H3N2O4Br	•		H2L	5-Bron	nooroti		8-62-9 (3629)
Metal	Mtd	Medium	Temp	Conc Ca	l Flags	Lg K values	Reference ExptNo
Zn++ Medium: Me	4NBr			0.10M U		K1=3.26	1964TTa (35958)1646 ***********************************
C5H3N2O4I			H2L	5-Iodo	orotic		7-22-8 (3630)
Metal	Mtd	Medium	Temp	Conc Cal	l Flags	Lg K values	Reference ExptNo
Zn++ Medium: Me	_	R4N.X	25°C	0.10M U		K1=3.77	1964TTa (35965)1647
	****	*****					***************
	-	_		xo-5-nitr		rimidinecarbo	7-24-0 (3615) xylic acid;
Metal					l Flags		Reference ExptNo
Zn++	sp	KNO3	25°C	0.10M U		K1=2.58	1964TTa (35972)1648
By ion-exc	hange	: K1=2	.54				1961TDa (35973)1649 **********
C5H3N4Cl 6-Chloropu	ırine;	;	L 	6-Chlo	oropuri	ne CAS 87-4	2-3 (3032)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K v	alues	Refe	rence	ExptNo	
Zn++ ******	gl ****	KNO3	45°C *****	0.10M *****	l U	*****	K1=6.5 *****	*****	1971TKc	(3598	35)1650 ******	
C5H4NBr 4-Bromopyr			L						87-2 (87			
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K v	alues	Refe	rence	ExptNo	
Zn++ ******	gl ****	NaNO3 *****	25°C *****	0.50M ****	l C	*****	K1=0.7	6 *****	2002KSb	(3599	98)1651 ******	
C5H4NCl 3-Chloropy			L						0-8 (322			
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K v	alues	Refe	rence	ExptNo	
Zn++ *******												
C5H4N2O3S			H2L	Thi	oor	otic a	cid	(4335)				
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K v	alues	Refe	rence	ExptNo	
Zn++							K(Zn+HL)=2.53				
44444444	and a standard and a											
C5H4N2O3S 1,2,3,6-Te			H2L	2-T	hio:	isooro	tic CA	S 6953-	78-2 (36	31)	oratic	
C5H4N2O3S	etrah	ydro-2-1	H2L thio-6	2-T 5-oxo-	hio: 5-py	isooro yrimid 	tic CA inecarb	S 6953- oxylic 	78-2 (36 acid, 2-t	31) hioiso	ooratic	
C5H4N2O3S 1,2,3,6-Te	etrah Mtd ix ****	ydro-2-† Medium NaClO4 *****	H2L thio-6 Temp 25°C *****	2-T 5-0x0- Conc 0.10M *****	hio: 5-py Cal U ***	isooro yrimid Flags ***** acid	tic CA inecarb Lg K v K1=3.9 *****	S 6953- oxylic alues 4 ******	78-2 (36 acid, 2-t Reference 1966DTate ************************************	31) hioiso rence (3607 *****	ooratic ExptNo 9)1654	acid;
C5H4N2O3S 1,2,3,6-Te Metal Zn++ **********************************	trah Mtd ix ****	ydro-2- Medium NaClO4 ******	H2L thio-(Temp 25°C ***** H2L 6-dio	2-T 6-oxo- Conc 0.10M ***** Oro xo-4-p	hio: 5-py Cal U *** tic	isooro yrimid Flags ***** acid midine	tic CA inecarb Lg K v K1=3.9 ****** CA carboxy	S 6953- oxylic alues 4 ****** S 65-86 lic aci	78-2 (36 acid, 2-t Refe 1966DTa ******** 6-1 (624)	31) hioiso rence (3607 *****	ooratic ExptNo 79)1654 ******	acid;
C5H4N2O3S 1,2,3,6-T6 Metal Zn++ **********************************	etrah Mtd ix **** etrah Mtd	ydro-2- Medium NaClO4 ******* ydro-2,6 Medium	H2L thio-6 Temp 25°C ***** H2L 6-dio Temp 37°C	2-T 6-oxo- Conc 0.10M ***** Oro xo-4-p Conc 0.15M	hio: 5-py Cal **** otic yrir Cal	isooro yrimid Flags ****** acid midine Flags	tic CA inecarb Lg K v K1=3.9 ****** CA carboxy Lg K v K1=5.9 B(ZnH-1	S 6953- oxylic alues 4 ****** S 65-86 lic aci alues 4 B2= L2)=1.4	78-2 (36 acid, 2-t Refe 1966DTa ******* 6-1 (624) d; Refe	31) hioiso rence (3607 ****** rence	ecratic ExptNo 79)1654 ******* ExptNo	acid;
C5H4N2O3S 1,2,3,6-T6	etrah Mtd ix ***** Mtd gl	ydro-2- Medium NaClO4 ******* ydro-2,6 Medium NaCl	H2L thio-6 Temp 25°C ***** H2L 6-dio Temp 37°C	2-T 6-oxo- Conc 0.10M ****** Oro xo-4-p Conc 0.15M	hio: 5-py Cal Vitic yrir Cal 	isooro yrimid Flags ***** acid midine Flags 	tic CA inecarb Lg K v K1=3.9 ******* CA carboxy Lg K v K1=5.9 B(ZnH-1	S 6953- oxylic alues 4 ****** S 65-86 lic aci alues 4 B2= L2)=1.4)=2.64	78-2 (36 acid, 2-t Refe 1966DTa ******** 6-1 (624) d; Refe 10.57 20	31) hioiso rence rence 02HTc (3609	ExptNo 79)1654 ******* ExptNo (36096)	acid;
C5H4N2O3S 1,2,3,6-T6	etrah Mtd ix **** Mtd gl	ydro-2- Medium NaClO4 ******* ydro-2,6 Medium NaCl	H2L thio-6 Temp 25°C ***** H2L 6-dio Temp 37°C 20°C	2-T 6-oxo- Conc 0.10M ****** Oro xo-4-p Conc 0.15M	hio: 5-py Cal Cal Vertic Cal	isooro yrimid Flags ***** acid midine Flags 	tic CA inecarb Lg K v K1=3.9 ****** CA carboxy Lg K v K1=5.9 B(ZnH-1 K(Zn+HL	S 6953- oxylic alues 4 ****** S 65-86 lic aci alues 4 B2= L2)=1.4)=2.64	78-2 (36 acid, 2-t Refe 1966DTa ******* 6-1 (624) d; Refe 10.57 20 8 1982VDa	31) hioiso rence (3607 ****** 02HTc (3609	ExptNo 79)1654 ******* ExptNo (36096)	acid;
C5H4N2O3S 1,2,3,6-T6 Metal Zn++ ********** C5H4N2O4 1,2,3,6-T6 Metal Metal Zn++	etrah Mtd ix **** etrah Mtd gl gl	ydro-2- Medium NaClO4 ******* ydro-2,6 Medium NaCl KCl	H2L thio-6 Temp 25°C ***** H2L 6-diox Temp 37°C 20°C	2-T 6-oxo- Conc 0.10M ****** Oro co-4-p Conc 0.15M	hio: 5-py Cal *** tic yrir Cal I U	isooro yrimid Flags ***** acid midine Flags M	tic CA inecarb Lg K v K1=3.9 ****** CA carboxy Lg K v K1=5.9 B(ZnH-1 K(Zn+HL K1=6.0 K(Zn+HL	S 6953- oxylic alues 4 ****** S 65-86 lic aci alues 4 B2= L2)=1.4)=2.64 4)=2.64	78-2 (36 acid, 2-t Refe 1966DTa ******* 6-1 (624) d; Refe 10.57 20 8 1982VDa 1979DZe	31) hioiso rence (3600 ***** 02HTc (3600 (3600)	ooratic ExptNo 79)1654 ****** (36096) (36096) 97)1656	acid;

```
Medium: Me4NBr
*********************************
               Isoorotic acid CAS 23945-44-0 (3616)
1,2,3,6-Tetrahydro-2,6-dioxo-5-pyrimidinecarboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl
           25°C 0.10M U
                              1961TDb (36125)1660
                     K(Zn+HL)=2.69
By ion-exchange: K(Zn+HL)=2.65
C5H4N4
               Purine
                       CAS 120-73-0 (2149)
Purine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     nmr non-ag 36°C 100% U M K1=0.72
                             1966WLa (36144)1661
Medium: DMSO. Ternary complexes with imidazole
********************************
               Hypoxanthine CAS 68-94-0 (1174)
C5H4N40
            HL
6-Hydroxypurine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaNO3 37°C 0.15M U K1=4.37 1990CIa (36175)1662
Zn++ gl KNO3 25°C 0.10M U T H
                              1983KSa (36176)1663
                     K(Zn+HL)=3.02
                     K(Zn+2HL)=3.29
-----
     gl NaClO4 25°C 0.10M U TIH K1=5.20 B2=10.12 1979RPa (36177)1664
Medium: KClO4. DH(K1)=-77.3 kJ mol-1, DS=-189 J K-1 mol-1; DH(K2)=-84.3,
DS(K2)=-189. Data for 35 and 45 C. At 35 C, I=0.0 M: K1=5.36, K2=4.88.
_____
Zn++ gl KNO3 45°C 0.10M U K1=7.10 1971TKc (36178)1665
-----
Zn++ gl diox/w 25°C 50% U K1=6.03 1959CFb (36179)1666
*******************************
               Xanthine CAS 69-89-6 (4305)
C5H4N4O2
           HL
Xanthine;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M U K1=2.05 1991KMa (36203)1667
6-Purinethiol CAS 6112-76-1 (115)
C5H4N4S
            HL
6-Mercaptopurine, 6-Thiohypoxanthine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ gl KNO3 45°C 0.10M U K1=6.6 1971TKc (36220)1668
______
Zn++ gl diox/w 25°C 50% U K1=5.90
                              1959CFb (36221)1669
********************************
               2-Thenoic acid CAS 527-72-0 (2312)
C5H402S
            HL
Thiophene-2-carboxylic acid; C4H3S.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 25°C 0.10M U T M K1=2.42
                               1988NSc (36243)1670
                      B(ZnAL)=9.28
HA is pyridine-2-carboxylic acid. At 40 C, K1=2.32, B(ZnAL)=7.04.
______
Zn++ cal NaNO3 25°C 1.00M U H
                               1979ARa (36244)1671
DH(ZnL)=0.50 kJ mol-1; DS=40.3.
        Zn++ gl NaClO4 30°C 0.20M U T H K1=2.08
                              1976SKc (36245)1672
At 40 C:K1=2.10; 50 C:2.16
             Zn++ gl diox/w 25°C 50% U K1=2.05 1968EGb (36246)1673
Medium: 50% dioxan, 0.1 M NaClO4
***********************************
C5H4O3
               Pyromeconic aci CAS 496-63-9 (3600)
            HL
3-Hydroxy-4H-pyran-4-one;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.50M U K1=5.03 B2=9.18 1967CBb (36271)1674
C5H5N
            L Pyridine CAS 110-86-1 (31)
Pyridine, Azine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.50M C K1=1.15
                               2002KSb (36457)1675
______
Zn++ sp NaCl 23°C 0.10M U M
                               1997DDa (36458)1676
                      K(ZnP+L)=3.58
P:2,3,7,8,12,13,17,18-octabromo-5,10,15,20-tetrakis(N-methyl-4-pyridinio)por
phyrin. Data for other porphyrins and L=imidazole, 4-CN-, 3-Cl- and 3-F-pyr.
.....
     sp non-aq 25°C 100% U
                               1994IUa (36459)1677
                      K(ZnP+L)=4.95
Medium: CHCl3. ZnP is a zinc porphyrin host.
______
Zn++ cal non-aq 25°C 100% U H K1=3.9 B2=7.0 1994K0a (36460)1678
                      B3=9.3
                      B4=10.6
Medium: CH3CN. DH(K1)=-32.3, DH(B2)=-61, DH(B3)=-76, DH(B4)=-97 kJ mol-1.
______
```

```
Zn++ cal non-aq 25°C 100% U H K1=1.06 B2=0.79 1993K0a (36461)1679
Medium: dimethylformamide, 0.1 M Et4NClO4. DH(K1)=-18.1, DH(B2)=-41.8 kJ m-1
______
      sp non-aq 25°C 100% U M
                                           1993SSc (36462)1680
                               K(ZnA+L)=3.366
                               K(ZnB+L)=3.748
                               K(ZnC+L)=4.125
Medium: Toluene. H2A: Octaethylporphyrin. H2B: t-Octaethylchlorin.
H2C: ttt-Octaethylisobacteriochlorin.
      sp non-ag 25°C 100% U M
                                           1992INb (36463)1681
                               K(ZnA+L)=3.46
                               K(ZnB+L)=4.38
                               K(ZnC+L)=3.52
Medium:toluene. A:bis-roof porphyrin. B:picket fence porphyrin.
C:meso-tetrakis(p-methylphenyl)porphyrin. Data for many other basic ligands
_____
       sp non-ag 25°C 100% U HM
                                           1992UNa (36464)1682
                               K(ZnA+L=ZnAL)=4.15
                               K(Zn2B+L=Zn2BL)=1.30
                               K(ZnC+L=ZnCL)=4.58
Medium: CHCl3. A,C=substituted porphyrins, B=substituted porphyrin dimer.
______
      sp non-aq ? 100% U M
                                           1990AHb (36465)1683
                               K(ZnA+L)=3.11
Medium: CH2Cl2. A=biphenyl capped mesoporphyrin. Data for other porphyrin
Zn complexes
______
Zn++ sp non-aq ? 100% U M
                                           1990HMa (36466)1684
                               K(Zn2A+L=LZn(A)Zn)=2.02
                               K(LZn(A)Zn+L=LZn(A)ZnL)=2.31
Medium: CH2Cl2. A=cyclic porphyrin dimer
Zn++ sp non-aq 25°C 100% U IH
                                           1990IKa (36467)1685
                               K(ZnP+L)=4.38
In toluene. P=pivalamido picket fence porphyrin. DH=-44.4 kJ mol-1; DS=-
64.4 J K-1 mol-1. Also data for other solvents and picket substituents.
______
        vlt oth/un 25°C 0.10M U
                                K1=0.83 B2=1.52 1984GLa (36468)1686
Recalculation of literature data
-----
Zn++ dis non-aq 25°C 100% U
                                           1983SSa (36469)1687
                               K((NBu4)2ZnC14+L)=0.07
                               K((NBu4)2ZnCl3L+L)=-1.70
In 1,2-dichloroethane. Also data for L=4Me-py, 3Me-py, 2Me-py, 2Et-py,
4MeO-py and 4CN-py.
    sp non-aq 25°C 100% U TIH
                                           1982CFa (36470)1688
                               K(ZnA+L)=4.22
Medium: BuCl. A=tetraphenylporphyrin. Also in PhCl and PhCH3
```

```
Zn++ gl NaNO3 25°C 0.10M C K1=1.00
                                     1981BKb (36471)1689
______
Zn++ nmr non-ag 25°C 100% U IHM
                                     1980WBa (36472)1690
                           K(ZnA+L)=4.40
Medium: cyclohexane. DH=-42.0 kJ mol-1. A=5,10,15,20-tetraphenylporphyrin.
In benzene, K(ZnA+L)=3.68
______
Zn++ sp non-aq 25°C 100% U I M
                                     1978NVa (36473)1691
                           K(ZnA+L)=3.84
Medium: CH2Cl2. A=Tetraphenylporphyrin. In benzene, K(ZnA+L)=3.68
-----
Zn++ cal non-aq 30°C 100% U H
                                      1976AGc (36474)1692
                           K(ZnA2+L)=1.79
                           K(ZnB2+L)=1.63
                           K(ZnC2+L)=2.19
In benzene. A=diethyldithiocarbamate; DH=-33.7 kJ mol-1, DS=-77. B=dibutyldi
thiocarbamate; DH=-42.3; DS=-76. C=dibenzyldithiocarbamate; DH=-31.4; DS=-62
______
     cal non-ag 30°C 100% U H
Zn++
                                      1974DGa (36475)1693
                           K(ZnA2+2L)=4.00
                           B(ZnB2+2L)=4.26
In benzene. HA=thioacetyl-1,1,1-trifluoroacetone; DH=-45 kJ mol-1; DS=-73
HB=thiobenzoyl-1,1,1-trifluoroacetone; DH=-48 kJ mol-1; DS=-78.
______
Zn++ gl KNO3 25°C 0.10M U K1=1.10 1974ILa (36476)1694
______
Zn++ gl KNO3 25°C 0.50M U
                          K1=0.98 B2=1.45 1973BJa (36477)1695
                          K3 = 0.15
                          K4 = -0.2
______
      gl NaCl04 25°C 0.50M U I K1=0.99 B2=1.27 1970FRa (36478)1696
Medium: LiClO4. In 54.3% MeOH, 0.5 M LiClO4: K1=1.14
0.5 LiClO4, 48.1% dioxan: K1=1.06, K2=0.76
______
Zn++
      EMF oth/un 25°C 0.50M U
                           K1=1.08 B2=1.48 1969NSb (36479)1697
                           K3 = 0.02
                           K4 = -0.23
Medium: 0.5 LiNO3
-----
Zn++ gl R4N.X 20°C 1.0M U M K1=1.45 B2=2.01 1967FLc (36480)1698
                           B(Zn(NH3)L)=4.07
                           B(Zn(NH3)2L)=6.05
                           B(Zn(NH3)L2)=4.07
                           B(Zn(NH3)3L)=7.69
Also by distribution. Medium: NH4NO3. B3=1.8, B4=2.12, B(Zn(NH3)2L2)=6.27,
B(Zn(NH3)L3)=4.14, Ternary complexes with oxine and substituted oxines
______
Zn++ vlt mixed 30°C 20% U I K1=0.57 B2=1.22 1967GSa (36481)1699
Medium: 0-40% v/v DMF, 0.1 M KNO3
```

```
K1(0\%)=0.90, K1(40\%)=0.81, B2(0\%)=1.53, B2(40\%)=0.85
______
     ISE NaClO4 30°C 0.10M U
                      K1=1.10 B2=1.71 1966DKa (36482)1700
                      B3=1.92
     vlt KNO3 30°C 0.10M U
                    K1=0.90 B2=1.53 1965SGa (36483)1701
______
Zn++ gl NaCl04 25°C 0.10M U K1=1.07 1964KSb (36484)1702
-----
Zn++ gl NaClO4 25°C 1.0M U H K1=2.08 B2=3.77 1963ABa (36485)1703
                      K3=1.03
                       K4 = 0.64
By calorimetry: DHi(average)=-10.9 kJ mol-1, DS(K1)=4 J K-1 mol-1, DS(K2)=-4
DS(K3)=-16, DS(K4)=-25
            ------
Zn++ vlt KCl 25°C 0.10M U
                       K1=1.41 B2=1.11 1953NYa (36486)1704
                      K3=0.50
                      K4=0.32
      gl oth/un 25°C 0.50M U K1=0.95 B2=1.45 1950BJa (36487)1705
Medium: 0.5 M C5H5N.HNO3
-----
Zn++ ISE oth/un 18°C 0.40M U B2=1.1 1904EUb (36488)1706
**********************************
             L 3-Pyridinol CAS 109-00-2 (1475)
3-Hydroxypyridine; C5H4N.OH
_______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 25°C 0.50M U K1=0.70 B2=1.65 1978LRa (36703)1707
                      B3=1.84
******************************
                       CAS 1121-31-9 (3052)
C5H5NOS
3-Mercaptopyridine 1-oxide; C5H4N(-0)(SH)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 20°C 0.01M U K1=5.9 B2=11.3 1956ARb (36729)1708
CAS 13161-30-3 (5582)
1-Hydroxypyridin-2(1H)-one, 2-Hydroxypyridine 1-oxide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KCl
           25°C 0.20M C
                      K1=4.87 B2= 9.04 2000FEc (36744)1709
                     B3=11.80
    gl KCl 25°C 0.10M U K1=5.09 B2=9.25 1993LMc (36745)1710
                      K3=2.78
```

```
Zn++ gl oth/un 20°C 0.01M U K1=5.5 B2=9.8 1956ARb (36746)1711
***********************
                          CAS 16867-04-2 (2316)
2,3-Dihydroxypyridine, 3-Hydroxypyridin-2(1H)-one; C5H3N(OH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 37°C 0.15M C M K1=5.57 B2=10.12 1980SHb (36771)1712
                       K3=2.18
                       K(ZnH-1L2+H)=10.3
______
Zn++ gl diox/w 25°C 50% U K1=7.40 B2=13.39 1970GDa (36772)1713
Medium: 50% dioxan, 0.1 M NaClO4
Zn++ gl NaClO4 25°C 0.10M U K1=5.82 B2=11.48 1970GDa (36773)1714
****************************
                          CAS 1121-47-7 (6252)
C5H5N02
2-Furancarboxaldehyde oxime, 2-Furfuraldoxime; C4H3O.CH:NOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·-----
     gl diox/w 20°C 60% U I K1=6.90 B2=12.96 1979GBd (36802)1715
B(ZnHL2)=23.26
********************
                          CAS 35940-93-3 (3618)
3-Furancarboxaldehyde oxime (3-Furfuraldoxime); C4H3O.CH(:N.OH)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 15°C 75% U T K1=6.79 B2=13.17 1963ASa (36810)1716
Medium: 75% dioxan, 0.104 M NaCl04. K1=6.71(25 C),6.74?(35 C); K2=6.02(25 C)
******************
                      CAS 1121-23-9 (2315)
C5H5N02
3-Hydroxypyridin-4(1H)-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 37°C 0.15M C K1=6.81 B2=12.54 1980SHb (36823)1717
                       K3 = 2.1
                       K(ZnH-1L2+H)=10.7
*******************************
                         CAS 1072-97-5 (2630)
5-Bromo-2-aminopyridine; C5H3N(Br)(NH2)
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaNO3 25°C 0.50M C K1=0.07 2002KSb (36853)1718
*************************
                 5-Aminoorotic CAS 7164-43-4 (3619)
1,2,3,6-Tetrahydro-2,6-dioxo-5-amino-4-pyrimidinecarboxylic acid;
```

Metal	Mtd	Medium	Temp	Conc	 Cal	Flags	Lg K values	Refe	rence ExptNo
Medium: Me	4NBr						K1=5.38		
C5H5N3O4 N-Methylvi			H2L				CAS 59048-	06-5 (66	996)
			_		Cal	Flags	Lg K values	Refe	rence ExptNo
Zn++	gl ****	NaNO3 *****	25°C ***** L	0.50M	l C ***	*****	K1=2.00 ***********************************	1978VNa *****	(36874)1720
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Refe	rence ExptNo
Zn++	gl	NaNO3	25°C	0.10M	ı C	 М	K1=8.01 K(Zn+HL)=4.02 K(Zn+HL+OH)=12.0 K(ZnHL+OH)=8.06 K(Zn+L+OH)=13.3	02	(36942)1721
Also data	for [.]	ternary	-						
Zn++			25°C	0.10M			K1=5.77		•
Zn++			25°C	0.10M	I M		K(Zn+HL)=1.24 K(Zn(atp)+HL)=1		(36944)1723
	J				I U	 М	K1=8.28 B(ZnAL)=10.55 *K(ZnAL)=-8.05 *K(Zn(OH)AL)=-9		(36945)1724
HA is 6-am	inop	enicilla 	anic a	acid. 					
Zn++	gl	KNO3	35°C	0.10M	ΙU	М	K1=2.17 B(ZnHLAsp)=8.02 B(ZnLAsp)=6.49 K(ZnL+Gly)=5.19	1989SRe	(36946)1725
Zn++	gl						K(Zn+HL)=2.17 K(Zn+2HL)=3.13		(36947)1726
Zn++	gl	NaCl	37°C	0.15M	l C		K(Zn+HL)=1.62		(36948)1727
Zn++	gl							1971TKc	(36949)1728

```
gl diox/w 25°C 50% U K1=6.42 1959CFb (36950)1729
********************
C5H5N50
               Guanine
                        CAS 73-40-5 (5387)
2-Amino-6-hydroxypurine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
.....
Zn++ gl NaNO3 37°C 0.10M U M K1=8.54 1994MGd (36995)1730
                      B(ZnAL)=10.82
                      *K(ZnAL) = -8.01
                      *K(Zn(OH)AL)=-9.26
HA is 6-aminopenicillanic acid.
*********************************
                        CAS 700-02-7 (3033)
C5H5N50
            L
Adenine N-Oxide;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C ? U K1=3.47 1960PEb (37001)1731
**********************************
           H3L 6-Thioguanine CAS 3647-48-1 (4307)
C5H5N5S
2-Amino-6-mercaptopurine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
     gl KNO3 45°C 0.10M U
                               1973TKa (37008)1732
                      K(Zn+H2L)=3.2
C5H5N5S
            H3L
                        CAS 154-42-7 (4308)
2-Mercapto-6-aminopurine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     gl KNO3 45°C 0.10M U
                               1973TKa (37016)1733
                     K(Zn+H2L)=3.4
********************************
C5H502F3
                        CAS 367-57-7 (163)
1,1,1-Trifluoropentane-2,4-dione; CF3.CO.CH2.CO.CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaCl04 25°C 0.50M C K1=2.72 1993HTa (37042)1734
-----
     dis NaClO4 25°C 1.0M C M K1=2.72 B2= 4.48 1977SMe (37043)1735
                      K(ZnL2(org)+A(org))=6.70
Method: distribution from 1.0 M NaClO4 into CCl4/HL/tri-octylposphine
oxide (A). K(Zn+2HL(org)=ZnL2(org)+2H)=-8.76.
______
Zn++ dis NaCl04 25°C 0.10M U I K1=3.18 B2=5.28 1971SIa (37044)1736
```

B3=6.14

```
I=1: K1=2.72, B2=4.48, B3=5.42. I=3: K1=3.24, B2=5.52, B3=5.68
*******************************
C5H6N2
                          CAS 1072-63-5 (8709)
1-Vinvlimidazole;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.50M U K1=2.08 B2= 3.68 1989LKc (37084)1737
                        B3=4.78
                        B4=7.08
**********************************
                 2-Aminopyridine CAS 504-29-0 (1478)
2-Aminoazine, 2-Pyridylamine; C5H4N.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.50M C K1=0.05 2002KSb (37110)1738
Zn++ gl KNO3 25°C 0.10M U TIH K1=2.72 B2=4.64 1976BBe (37111)1739
**********************************
             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
-----
    gl KNO3 25°C 0.50M U K1=1.23 B2=2.07 1978LRa (37151)1740
                       B3=2.51
Zn++ ISE NaClO4 30°C 0.10M U
                       K1=1.34 B2=2.16 1966DKa (37152)1741
                       B3=2.78
**********************************
C5H6N20
                          CAS 16867-03-1 (2903)
2-Amino-3-hydroxypyridine; C5H3N(OH)(NH2)
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 20°C 0.10M U TIH K1=3.90 B2= 7.38 1982KMe (37186)1742
Data for 0.05-0.20 M KNO3. At I=0, K1=4.36, K2=3.95.
Data for 30 and 40 C. DH(B2)=-40.4 kJ mol-1, DS(B2)=3.6 J K-1 mol-1.
**********************************
2-Aminopyridine 1-oxide; C5H4N(-0)(NH2)
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaCl04 25°C 0.10M U K1=<8.71 1963SBd (37199)1743
At I=0.5 \text{ M K}(Zn+HL)=0.17
*********************************
                          CAS 65-71-4 (413)
C5H6N2O2
             HL
                Thymine
```

```
2,4-Dihydroxy-5-methylpyrimidine; C4HN2(CH3)(OH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl R4N.X 25°C 0.10M C
                                  2001BBb (37258)1744
                        K(ZnA+L)=4.1
                        K(ZnAL+OH)=4.7
                        K(Zn2A+L)=5.3
                        K(Zn2AL+L)=5.0
Medium: 0.10 M NMe4NO3. K(Zn2AL2+2OH)=7.7.
A is 1,4,7,16,19,22-hexaza-10,13,25,28-tetraoxacyclotriacontane.
______
      gl NaNO3 37°C 0.10M U M K1=3.79
Zn++
                                  1994MGd (37259)1745
                        B(ZnAL)=4.94
HA is 6-aminopenicillanic acid.
-----
    gl KNO3 35°C 0.10M U M K1=5.23
                                 1989SRc (37260)1746
                      K(Zn(thiamine)+L)=4.97
Zn++ gl KNO3 25°C 0.10M U T H K1=5.32
                              1983KSa (37261)1747
______
Zn++ gl KNO3 25°C 0.10M C T H K1=5.32 B2= 5.25 1983KSd (37262)1748
Also data for 15-45 C. DH(K1)=-22.1 \text{ kJ mol}-1, DH(B2)=20.1
______
Zn++ gl KNO3 35°C 0.10M U K1=5.23 B2=10.42 1982TSa (37263)1749
-----
Zn++ gl KNO3 45°C 0.10M U K1=4.0 1974KKa (37264)1750
CAS 3326-71-4 (2607)
2-Furanecarboxylic acid hydrazide; C4H3O.CONH.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl none 25°C 0.0 C I K1=2.186 B2= 4.01 1996RRb (37299)1751
Data for 10-60% v/v DMF/H2O and 10-50% dioxane/H2O. In 50% DMF/H2O,
K1=3.447, B2=5.377. In 50% dioxane/H20, K1=1.756.
Zn++
      gl KNO3 25°C 0.10M U M K1=3.79 B2=7.36 1990NAa (37300)1752
                        K(Zn(Oxine)+L)=3.89
****************************
                           CAS 645-65-8 (3620)
C5H6N2O2
4(or 5)-Imidazolylethanoic acid; C3H3N2.CH2.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaCl04 25°C 0.10M C K1=3.81 B2= 7.15 1998TSa (37315)1753
B3=9.48
Zn++ gl KCl 0°C 0.25M U T H K1=3.86 B2=7.29 1965AZa (37316)1754
                        K3=2.80
```

```
K1=3.83(15 C), 3.86(25 C), 3.59(40 C); K2=3.32, 3.24, 3.33; K3=2.63(15 C), 2.70
(25 C).At 15 C: DH(K1)=-9.6 kJ mol-1, DH(K2)=0.0, DH(K3)=-14.2
*************************
                          CAS 15112-09-1 (8298)
C5H6N2O2S
N-Methyl-2-thiobarbituric acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 31°C 0.10M U T H K1=6.85 B2=12.09 1984SJa (37323)1755
Also data for 18 and 42 C. DH(K1)=-90.7 \text{ kJ mol}-1, DS(K1)=-168 \text{ J K}-1 \text{ mol}-1
DH(K2) = -53.4, DS(K2) = -75.8.
**********************************
                 Diaminopurine CAS 1904-98-9 (4290)
             HL
2,6-Diaminopurine;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 45°C 0.10M U K1=7.8 1973TKa (37334)1756
*******************************
                          CAS 98-02-2 (4309)
C5H60S
Furfurylmercaptan; C4H3O.CH2.SH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaClO4 25°C 0.10M U T K1=6.77 B2=13.24 1973SSf (37343)1757
Medium: 50% EtOH, 0.1 M NaClO4
***********************************
                 Citraconic acid CAS 498-23-7 (3021)
C5H604
             H2L
Citraconic acid; CH3.C(COOH):CH.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ vlt KCl 25°C 0.10M C M K1=2.65 B2= 3.90 1987SPb (37352)1758
                        B3=5.64
                        B(CdAL)=3.93
                        B(CdA2L)=3.95
                        B(CdAL2)=5.00
Method: polarography. A is gamma-picoline.
------
     gl oth/un 25°C 0.10M U K1=1.8 1960YYa (37353)1759
********************************
                           CAS 598-10-7 (70)
Cyclopropane-1,1-dicarboxylic acid; C3H4(COOH)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
Zn++ gl NaCl04 25°C 0.10M U K1=3.50 1972RVh (37384)1760
******************************
                 Itaconic acid CAS 97-65-4 (398)
             H2L
Methylenesuccinic acid; HOOC.CH2.C(:CH2).COOH
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl oth/un 25°C 0.10M U K1=1.9
                             1960YYa (37405)1761
*******************************
               Ketoglutaric CAS 328-50-7 (1146)
           H2L
2-Ketoglutaric acid; HOOC.CH2.CH2.CO.COOH
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.50M U K1=1.13 B2=1.7 1970SFb (37470)1762
_____
Zn++ gl KCl 25°C 0.50M U M
                              1970SFb (37471)1763
                      B(ZnL(Ala))=5.97
                      B(ZnL2(Ala))=10.00
                      B(ZnLA)=5.64
H2A=glutamic acid
**************************
                        CAS 642-93-3 (5476)
3-Methyl-2-oxobutanedioic acid HOOC.CO.CH(CH3).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                    K1=3.13
    gl KCl 25°C 0.10M C
                             1982KMc (37478)1764
                     K(Zn+H-1L)=7.4
********************************
C5H607
                         (8107)
Carboxymethyltartronic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     gl KCl 25°C 0.10M C
                     K1=4.87
                             1984MMg (37484)1765
                     K(ZnL+H)=2.42
********************************
           HL Glutarimide CAS 1121-89-7 (4312)
C5H7N02
Piperidine-2,6-dione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl alc/w 45°C 50% C K1=7.07
                             1996MMc (37506)1766
Medium: 50% v/v MeOH/H2O, 0.10 M KNO3.
*************************
C5H7N04S2
           H3L
                        CAS 36061-59-3 (1953)
Bis(carboxymethyl)dithiocarbamic acid; (HOOC.CH2)2.N.CSSH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     dis KNO3 20°C 0.10M U B2=<4.5 1967HMc (37552)1767
***********************************
                        CAS 541-58-2 (1421)
C5H7NS
```

```
2,4-Dimethylthiazole; C3HNS(CH3)2
 -----
     Mtd Medium Temp Conc Cal Flags Lg K values
_____
Zn++ gl KNO3 25°C 0.50M U K1=-1.30 B2=-0.65 1982GKa (37567)1768
*******************************
                      CAS 42166-50-7 (4291)
C5H7N3
2-Pyridylhydrazine; C5H4N.NH.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     EMF NaNO3 20°C 0.10M U K1=5.40 B2=9.95 1971ANa (37580)1769
                    K3 = 3.35
************************
C5H7N3O2
                         (6254)
1-Carbamido-3-methyl-pyrazol-5-one; CH3.C3H2N2(:0).CO.NH2
 ______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% U K1=6.88 B2=12.40 1979PDa (37595)1770
******************************
            L
                       CAS 1759-84-0 (173)
C5H8N2
1,2-Dimethylimidazole; C3H2N2(CH3)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KNO3 25°C 0.50M U K1=2.48 1981LKa (37612)1771
______
                     K1=1.92 B2=4.32 1980LBa (37613)1772
Zn++ gl KNO3 25°C 0.50M U
                     B3=7.11
                     B4=9.00
                     B5=9.62
**********************************
                       CAS 7098-07-9 (2053)
1-Ethylimidazole; C3H3N2.C2H5
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                     K1=2.50 B2=4.79 1979LBa (37637)1773
Zn++ gl KNO3 25°C 0.50M U
                     B3=7.40
                     B4=9.30
                     B5=10.10
**********************************
                      CAS 1072-62-4 (929)
2-Ethylimidazole; C3H3N2.C2H5
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 30°C 0.20M U K1=2.82 1999PGa (37656)1774
______
```

```
Zn++ gl NaNO3 30°C 0.20M U K1=2.80 1999PPa (37657)1775
------
Zn++ gl KNO3 25°C 0.50M U
                       K1=1.80 B2=4.48 1982LKb (37658)1776
                       B3=6.30
                       B4=8.60
************************************
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
-----
Zn++ gl KNO3 25°C 0.50M U K1=-0.15 B2=0.65 1977LGb (37672)1777 B3=2.15
**********************************
C5H8N20
                           (1429)
5-Amino-3,4-dimethylisoxazole; C3NO(CH3)2(NH2)
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     ISE KNO3 25°C 0.50M U K1=0.78
Zn++
                                 1983GWa (37683)1778
Constant determined by means of the competitive potentiometric method using
Ag(I) as the auxilliary cation, silver electrode applied.
cyclo-(Gly-Cys) CAS 24814-12-8 (7983)
cyclo-(Glycyl-cysteinyl);
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M M K1=4.71 B2=10.46 2001GVa (37692)1779
*************************
2,3-Dehydro-N-glycyl-alanine; NH2.CH2.CO.NH.C(COOH):CH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        K1=2.80
Zn++
    gl KCl
            25°C 0.10M C
                                 1994JBa (37696)1780
                       B(ZnH-1L)=-3.93
                       B(ZnH-1L2)=-3.00
                       B(ZnH-2L2)=-10.52
********************************
C5H8N2O5
            H2L
                beta-ODPA
                          CAS 5302-45-4 (6480)
b-N-Oxalyl-L-alfa, beta-diaminopropoinic acid, N-oxalylamino-alanine;
H2N.CH(COOH).CH2.NH.CO.COOH
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
K1=4.74 B2=8.66 1990DNa (37719)1781
     gl KNO3 25°C 0.10M U
                       B(ZnH-2L2)=-9.82
***********************************
C5H8OS
             HL
                            (4314)
```

```
1-Mercapto-1,3-dimethylprop-1-en-3-one; HS.C(CH3):CH.CO.CH3
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ dis oth/un 25°C 0.10M C B2=10.81 1979LJa (37734)1782
Method: 65Zn extraction from 0.10 M buffer into CHCl3.
______
Zn++ gl diox/w 30°C 75% U K1=9.33 B2=18.62 1969UTa (37735)1783
*************************
                Acetylacetone CAS 123-54-6 (164)
             HL
Pentane-2,4-dione; CH3.CO.CH2.CO.CH3
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.50M C K1=4.68 1993HTa (37856)1784
-----
     oth NaClO4 25°C 0.10M C I R K1=4.70 B2=8.3
                                    1982SLc (37857)1785
IUPAC evaluation. I=0 corr.: K1=5.03, B2=8.8. I=1 M: K1=4.6
______
Zn++ vlt NaNO3 25°C 0.10M C K1=5 B2=10.00 1980KJc (37858)1786
                       B3=14.30
Method: polarography. Medium pH 6.0
______
Zn++ gl diox/w 24°C 50% U K1=6.1 1979ACa (37859)1787
______
Zn++ cal oth/un 25°C 0.05M U K1=4.68 B2= 8.03 1979PKc (37860)1788
                       DH(K1)=-7.40 \text{ kJ/mol}
                       DH(B2) = -20.2
-----
Zn++ gl diox/w 30°C 75% U K1=9.69 1977AHb (37861)1789
·
Zn++ dis NaCl04 25°C 1.0M C M K1=4.58 B2= 7.76 1977SMe (37862)1790
                        K(ZnL2(org)+A(org))=3.07
                        K(ZnL2(org)+2A(org))=4.66
Method: distribution from 1.0 M NaClO4 into CCl4/HL/tri-octylposphine
oxide (A). K(Zn+2HL(org)=ZnL2(org)+2H)=-11.40.
Zn++ dis non-aq 20°C 100% C
                                 1976SSh (37863)1791
                        K3=1.50
                        K(ZnL2+piperidine)=3.80
Medium: benzene, 0.10 M NaClO4.
______
Zn++ cal non-aq 30°C 100% U M
                                 1973DGb (37864)1792
                        K(ZnL2+py)=2.53
Medium: benzene
Zn++ dis NaClO4 25°C 0.10M U I
                       K1=4.85 B2=8.22 1971SIa (37865)1793
                        B3=9.43
K1(I=1)=4.58, K1(I=3)=4.93, B2(I=1)=7.76, B2(I=3)=8.46, B3(I=1)=9.16,
B3(I=3)=10.26
```

```
dis NaClO4 20°C 0.10M U
Zn++
                                   1970VAa (37866)1794
                         K(ZnL2+py)=1.34
                         K(ZnL2+2py)=2.20
                         K(ZnL2+B)=2.17
                         K(ZnL2+2B)=3.20
B=2-methylpyridine. K(ZnL2+C)=1.59, K(ZnL2+2C)=2.70 C=4-methylpyridine
Data for ternary complexes with aniline, 2- and 3-methylaniline also
______
     gl NaCl04 25°C 0.10M U H K1=4.68 B2=7.92 1968GFa (37867)1795
By calorimetry:DH(K1)=-6.3 kJ mol-1,DS=66.9 J K-1 mol-1; DH(B2)=-14.2,DS=100
______
      gl alc/w 25°C 50% U H K1=5.36 B2=9.85 1967MKa (37868)1796
Medium: 50% MeOH. By calorimetry:DH(K1)=-5.4 kJ mol-1,DS=83.6 J K-1 mol-1;
DH(K2) = -5.9, DS = 66.9
         -----
Zn++ gl alc/w 30°C 100% U K1=5.6 B2=10.40 1960DRa (37869)1797
Medium: EtOH, 0.025 M NaClO4
______
Zn++ gl diox/w 30°C 75% U K1=9.52 B2=17.57 1959MFa (37870)1798
______
Zn++ gl oth/un 20°C 0.0 U T H K1=5.07 B2=9.02 1955IFc (37871)1799
DH(K1)=-7.9 kJ mol-1, DS=71. 10 C: K1=5.14, K2=4.02; 30 C: K1=4.98, K2=3.83;
40 C: K1=5.00, K2=3.88
Zn++ gl diox/w 30°C 75% U K1=9.11 B2=17.20 1953UFb (37872)1800
*******************************
                            CAS 19418-11-2 (408)
C5H802S
              HL
Tetrahydrothiophene-2-carboxylic acid; C4H7S.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=2.35 1969SGa (38157)1801
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
C5H8O3
                 Laevulinic acid CAS 123-76-2 (941)
              HL
4-Ketopentanoic acid; CH3.CO.CH2.CH2.COOH
-----
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M U K1=1.13 1983LTa (38167)1802
*******************************
                           CAS 16874-33-2 (2493)
C5H8O3
              HL
Tetrahydrofuran-2-carboxylic acid; C4H70.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 25°C 50% U M K1=3.07 1968GPd (38179)1803
                         K(Zn(bpy)+L)=2.79
Medium: 50% dioxan, 0.1 M NaClO4
```

C5H8O4		**************************************			*********** 6-0 (1144)	******
Metal	Mtd Medi	ium Temp Conc Ca	al Flags I	Lg K values	Reference	ExptNo
		3 25°C 0.10M 0	В	(Zn(bpy)L)=7.		(38200)1804
 Zn++	gl NaCl	LO4 25°C 0.10M U	J ŀ	<1=2.20	19700Va (382	201)1805
******** C5H8O4	*****	/un 25°C .001M l ********** H2L acid; H00C.CH(C2	******	**************************************	•	•
Metal	Mtd Medi	ium Temp Conc Ca	_	Lg K values	Reference	
Zn++	gl NaCl	LO4 25°C 0.10M U				
******** C5H8O4	*****	/un 25°C .001M l ********* H2L Gluta H00C.CH2.CH2.Ch	********* aric acid		1931IRa (382 ******	
Metal	Mtd Medi	ium Temp Conc Ca	al Flags I	Lg K values	Reference	ExptNo
Zn++	gl NaCl	LO4 30°C 0.10M U	J I	<1=1.60	1981MSa (382	96)1809
Zn++	dis NaCl	LO4 25°C 1.00M U	J ŀ	<1=1.25 B2=	1.74 1974MSc	(38297)1810
Zn++	dis oth	un 25°C 0.0 l	J I	<1=2.85	1966RMb (382	98)1811
Zn++	gl oth	/un 25°C 0.10M l	J I	<1=1.6	1960YYa (382	99)1812
		25°C 0.20M l	K ((Zn+HL)=0.84	·	ŕ
C5H8O4S 3-Thiahexa	ne-1,6-di	H2L ioic acid; HOOC	.CH2.S.CH2	CAS 36303 2.CH2.COOH	-63-6 (988)	• • • • • • • • • • •
Metal	Mtd Medi	ium Temp Conc Ca	al Flags I	Lg K values	Reference	ExptNo
Zn++ ***********************************	gl KNO3 *****	3 25°C 0.10M (******** H2L (thio))bis-ethar		<1=1.70 ********* CAS 2068-	********** 24-8 (908)	******
Metal	Mtd Medi	ium Temp Conc Ca	al Flags I	Lg K values	Reference	ExptNo

```
gl oth/un 20°C ? U T K1=2.88 B2=5.60 1984SPa (38391)1815
Temperatures: 30,40 C DH(B2)=-86.5 kJ mol-1, DS=-169.0 J K-1 mol-1
**********************************
C5H804S2
             H3L
                            CAS 73618-85-6 (7720)
meso-2,3-Dimercaptobutanedioc acid monomethyl ester;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M C
                                   2002CDc (38400)1816
                         B(Zn4HL4)=62.7
                         B(Zn4L4)=57.4
                         B(Zn4H-1L4)=48.2
                         B(Zn2H2L4)=53.6
B(Zn2HL4)=46.0, B(Zn2L4)=35.4.
**********************************
                            CAS 69651-97-4 (1164)
2-Amino-(2-allyl)ethanoic acid; H2N.CH(CH2.CH:CH2)COOH
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=4.502 B2=8.51 1975IPb (38464)1817
***************************
              HL Proline CAS 147-85-3 (44)
Pyrrolidine-2-carboxylic acid; C4H8N.COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KNO3 35°C 0.10M C M K1=5.24 B2= 9.98 1998ZWa (38578)1818
Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-
2,10-dione dioxime
______
     vlt NaCl04 25°C 1.0M C M K1=5.15 B2= 9.72 1997KKb (38579)1819
                         B3=12.40
                         B(ZnAL)=5.53
                         B(ZnA2L)=10.00
                         B(ZnAL2)=12.65
Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50.
-----
Zn++ gl KNO3 25°C 0.10M U K1=5.27 1985MKa (38580)1820
·-----
Zn++ gl NaClO4 37°C 0.15M C
                         K1=5.82 B2=10.2 1976MTa (38581)1821
                         B(ZnHL)=12.52
                         B(ZnH-1L)=-1.97
                         B(ZnH-2L)=-10.9
Zn++ gl KCl 20°C 0.10M U K1=5.36 1970GVa (38582)1822
______
Zn++ gl KNO3 37°C 0.15M U K1=5.13 B2=9.69 1969CPc (38583)1823
                        B3=11.26
```

```
K(ZnL+H2O=Zn(OH)L+H)=-8.35
K(ZnL2+H2O=Zn(OH)L2+H)=-9.73
```

______ Zn++ gl oth/un 17°C 0.01M U B2=9.91952PEa (38584)1824 Medium: ZnSO4 ______ Zn++ gl oth/un 20°C 0.03M U B2=10.2 1950ALa (38585)1825 ******************************** 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 ______ Zn++ vlt NaClO4 25°C 1.0M C M K1=5.04 B2= 9.63 1997KKb (38704)1826 B3=12.36B(ZnAL)=5.40B(ZnA2L)=9.92B(ZnAL2)=12.60Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50. Zn++ vlt NaClO4 25°C 0.10M C K1=5.3B2=10.30 1983KVb (38705)1827 B3=16.9 Method: polarography. pH 6.0 ______ Zn++ gl KNO3 30°C 0.10M C K1=5.08 B2=9.74 1979HAa (38706)1828 -----vlt NaClO4 30°C 0.50M C K1=1.48 B2= 3.54 1977GCa (38707)1829 Method: polarography. Medium pH not stated. Zn++ gl NaClO4 37°C 0.15M C K1=5.84 B2=10.27 1976MTa (38708)1830 B(ZnHL)=12.11B(ZnH-1L)=-2.6B(ZnH-1L2)=1.03-----Zn++ gl oth/un 17°C 0.01M U B2=9.6 1952PEa (38709)1831 Medium: ZnSO4 ********************************** Thiopronin CAS 1953-02-2 (2162) C5H9N03S H2L N-2-Mercaptopropanoyl-glycine; CH3.CH(SH).CO.NH.CH2.COOH ______ Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ Zn++ gl NaCl 37°C 0.15M C K1=5.371 B2=10.086 1985FWa (38777)1832 B3=13.285 ______ Zn++ gl KNO3 22°C 0.10M U K1=5.72 B2=10.45 1975SHa (38778)1833 N-Acetyl-Cys CAS 616-91-1 (1187) H2L N-Acetylcysteine; CH3.CO.NH.CH(CH2.SH)COOH ______

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                      K1=4.90 B2=11.48 1993GVa (38807)1834
Zn++ gl NaClO4 25°C 0.10M M
                         B(ZnHL2)=18.39
                        B(Zn(OH)L2)=2.71
Zn++ gl NaCl 37°C 0.15M C
                        K1=5.444 B2=11.28 1992BHc (38808)1835
                         B3=14.801
                         B(ZnH-1L)=-2.700
                         B(Zn2H-1L)=0.917
                      -----
                             1989SHd (38809)1836
Zn++ gl KNO3 25°C 0.10M M M
                        K(Zn(nta)+L)=3.39
_____
Zn++ gl oth/un 25°C 0.10M U K1=6.35 B2=12.11 1975IMa (38810)1837
Medium not stated.
*******************************
             H2L Glutamic acid
                           CAS 56-86-0 (22)
2-Aminopentanedioic acid; H2N.CH(CH2.CH2.COOH)COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
   gl KNO3 25°C 0.10M C K1=5.69 2003AHa (38974)1838
______
Zn++ gl KCl 30°C 0.16M U I
                        K1=4.89 B2= 9.01 2001BRa (38975)1839
                         B(ZnHL)=10.63
Data for 5.8-36.8% w/w urea/H2O, 0.16 M KCl. At 36.8%, K1=4.87, B2=9.30.
Zn++ gl NaNO3 25°C 0.10M C M K1=5.70 B2= 9.74 2000KAb (38976)1840
                         K(ZnA+L)=5.95
H2A=Dipicolinic acid.
            -----
Zn++ gl KNO3 25°C 0.10M C M K1=4.50
                                  1999AAa (38977)1841
                         K(ZnL+A)=3.48
                         B(ZnLA)=7.98
                         K(ZnHL+B)=3.65
HA=MOPSO, HB=MOPS.
------
Zn++ gl NaNO3 30°C 0.20M U M K1=4.90
                                  1999PPa (38978)1842
                         B(ZnAL)=7.48
                         B(ZnCL)=7.33
                         B(ZnDL)=7.80
A is imidazole, C is 2-Me-imidazole, D is 2-Et-imidazole.
______
      vlt NaClO4 25°C 1.0M C
                                  1999VKc (38979)1843
Zn++
                     М
                         B(ZnLA)=6.32
                         B(ZnLA2)=9.66
                         B(ZnL2A)=10.81
Method: polarography. Medium pH: 8.5. A is 4-picoline.
______
```

Zn++	gl Na	aC104	25°C	1.0M	U	М	K1=5.60 B2= 8.90 1995KDa (38980)1844 K3=1.20 B(ZnLA)=6.67 B(ZnLA2)=9.59 B(ZnL2A)=10.83
Medium pH	8.50. H	HA is	propa	noic a	acid.		` ,
Zn++	gl Na	aCl	20°C	0.10M	U		1994SDa (38981)1845 B(ZnHL)=21.15 B(ZnH2L)=26.24
Zn++	gl Na	aC104	25°C	1.0M	М		B2=5.78 1991MKa (38982)1846 K(Zn+HL)=5.26 K(Zn+2HL)=5.19 K(Zn+3HL)=5.56
Zn++	gl Na	aC104	25°C	1.00M	U		K1=4.53 B2=7.79 1990BFa (38983)1847 B3=9.41 B(ZnHL)=10.25 B(ZnHL2)=15.44 B(ZnHL3)=18.90
Zn++	gl KN	NO3	25°C	0.10M	C	M	1989MAd (38984)1848 K(ZnA+L)=8.41 B(ZnAL)=15.26
H2A is N-(2-aceta	amido) 	iminc	diet	nanoic	: a	cid.
Zn++	gl Na	aCl	37°C	0.15M	U		K1=4.685 B2=8.470 1985CFb (38985)1849 B(ZnH-1L2)=-1.19
Zn++	ISE KN	NO3	25°C	0.10M	U	M	K1=5.34 B2=8.27 1985DVa (38986)1850 K(ZnL+H)=8.06 K(Zn(IDA)+L)=3.34
Zn++	J				U	M	1985NSd (38987)1851 K(ZnL+uracil)=5.02 K(ZnL+thymine)=5.28
	gl KN				 М		K1=4.89 B2= 8.96 1981GVa (38988)1852
Zn++	gl KC	 Cl	30°C	0.10M	U	M	K1=5.48 B2=9.48 1979SJb (38989)1853 K(ZnL+Thiomalate)=6.64 K(ZnL+Thiodiglycolate)=5.55
Zn++ 35Cl probe		С					1973HAb (38990)1854 K(Zn+HL)=1.39
Zn++	gl KC						K1=4.49 B2=8.25 1970SFb (38991)1855 B3=9.8

```
20°C 0.10M U K1=5.6 B2=8.80 1964J0a (38992)1856
     oth KNO3
Method: paper electrophoresis
______
   vlt NaClO4 20°C 0.20M U K1=5.73 B2=9.6 1961JDa (38993)1857
______
    gl oth/un 25°C 0.02M U K1=5.45
                            1961JDa (38994)1858
-----
Zn++ vlt oth/un 25°C ? U K1=9.0 1959MHa (38995)1859
    gl oth/un 25°C 0.02M U K1=5.45 B2=9.46 1954REa (38996)1860
-----
Zn++ gl oth/un 15°C .005M U B2=8.8
                              1953PEa (38997)1861
Medium: 0.005 ZnSO4
______
Zn++ gl oth/un 20°C 0.01M U
                      B2=8.5
                               1952ALa (38998)1862
***********************
C5H9N04
            H2L
                         CAS 1948-48-7 (3038)
3-Carboxymethylaminopropanoic acid; HOOC.CH2.NH.CH2.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KCl 30°C 0.10M U K1=6.17 B2=10.48 1952CMb (39154)1863
******************************
           H2L MIDA
                         CAS 4408-64-4 (190)
C5H9N04
N-Methyliminodiethanoic acid; CH3.N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl NaCl04 25°C 0.50M U K1=7.44 B2=13.70 1992GLa (39205)1864
                     B(ZnH-1L)=-0.48
Zn++ gl KNO3 25°C 0.10M C M K1=7.63
                               1990DAb (39206)1865
                      K(ZnL+A)=3.90
                      B(ZnLA)=11.53
H2A: salicylaldoxime
           .....
     gl KNO3 25°C 0.10M C M K1=7.63
                              1990DAc (39207)1866
Zn++
                      K(ZnL+A)=3.52
                      B(ZnAL)=11.15
HL: benzohydroxamic acid
______
    gl KNO3 35°C 2.0M U K1=7.44 B2=13.61 1977MGb (39208)1867
        nmr oth/un 32°C 0.50M U
                      K1=7.06 B2=13.25 1973HAb (39209)1868
35Cl probe
Zn++ cal KNO3 20°C 0.10M U H
                               1965ANa (39210)1869
DH(K1)=-9.1 kJ mol-1, DS=115.8 J K-1 mol-1; DH(B2)=-24.4, DS=185.6
______
```

```
EMF oth/un 20°C ->0 U K1=9.66 B2=17.26 1945SKa (39211)1870
Method: H electrode
-----
Zn++ gl KCl 20°C 0.10M U K1=7.66 B2=14.09 1945SKa (39212)1871
****************************
                         (1736)
3-(Carboxymethyl)thio-L-alanine; HOOC.CH2.S.CH2.CH(NH2)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 37°C 0.15M C
                    K1=4.988 B2=8.588 1989BVa (39306)1872
                     B(ZnH-1L)=-3.496
-----
Zn++ gl NaCl04 25°C 2.00M U K1=5.04 B2=9.07 1980MAc (39307)1873
______
Zn++ gl KNO3 25°C 0.10M C K1=5.12 B2=9.26 1974NBb (39308)1874
************************
C5H9NS2
                        CAS 25769-03-3 (3623)
Pyrrolidine-N-carboxydithioic acid; C4H8N-CSSH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     vlt oth/un 25°C 0.70M U I K1=4.40 1985BEa (39328)1875
Medium: seawater salinity(S)=36. When S=24: K1=4.36; S=12: 4.43; S=2.3: 4.87
______
     dis oth/un 22°C 0.01M U B2=10.1
                              1973SSa (39329)1876
______
Zn++ vlt KCl 25°C 1.00M U B2=10.5 1973SSa (39330)1877
*********************************
          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
______
Zn++ gl NaCl 25°C 0.10M C T K1=5.15 B2= 9.97 1998TGa (39484)1878
                      B(ZnHL)=10.87
                      B(ZnH-1L)=-3.04
At 90 C: K1=4.5, B2=8.6, B(ZnHL)=10.87, B(ZnH-1L)=-2.0.
                  Zn++ gl KCl 25°C 0.10M C H R K1=5.21 B2=10.13 1997SJa (39485)1879
                      B(ZnHL)=11.72
IUPAC evaluation. DH(K1)=-23.9 kJ mol-1, DH(K2)=-19.6, DH(CuHL)=-60.0
______
   gl NaNO3 25°C 0.10M U
                   K1=4.95 B2= 8.69 1993GAa (39486)1880
______
Zn++ gl KNO3 35°C 0.10M U M K1=6.11
                              1991RSb (39487)1881
                  B(Zn(Cys)L)=18.30
______
Zn++ gl KNO3 35°C 0.10M C M K1=6.11 1985RRc (39488)1882
                      B(ZnL(cytidine))=11.73
```

```
Zn++ cal KNO3 25°C 0.10M C H
                                  1984ACb (39489)1883
DH(K1)=-23.9 \text{ kJ mol-1}, DS=19.6 \text{ J K-1 mol-1}; DH(B2)=-43.5, DS=50;
DH(ZnHL) = -60.6, DS = 16.
______
Zn++ gl KCl 25°C 0.10M U M K1=5.17 B2=9.73 1984DMc (39490)1884
______
Zn++ gl KNO3 25°C 0.50M U K1=5.69 1983LWa (39491)1885
-----
Zn++ gl NaClO4 37°C 0.15M C M K1=4.867 B2= 9.66 1982BKc (39492)1886
                         B(ZnH-1L)=-2.736
                         B(Zn(ser)L)=9.257
                         B(ZnH(lys)L)=19.366
                         B(ZnH2(1ys)L)=25.987
------
Zn++ gl NaClO4 37°C 0.15M U M K1=5.93 B2=10.45 1982NVa (39493)1887
                         B(ZnHL)=11.91
                         B(ZnL(His))=11.78
                         B(ZnHL(His))=18.58
                         B(ZnH2L(His))=24.2
Zn++ gl NaClO4 37°C 0.15M U M 1980KBa (39494)1888
                         B(ZnLA)=14.59
                         B(ZnHLA)=21.13
A=Cysteine. Also with histidine, threonine, citric acid and glutamine
______
Zn++ gl KNO3 25°C 0.20M C
                        K1=5.27 B2=10.23 1979MBa (39495)1889
                       K(Zn+HL)=1.53
Zn++ gl KCl 25°C 0.20M U M K1=5.56 B2=10.29 1978SKa (39496)1890
                         B(ZnHL)=11.78
                         B(ZnH-1L)=-2.83
B(ZnL(Gly))=9.97, B(ZnL(en))=10.60, B(ZnL(His))=11.48
              Zn++ gl KNO3 25°C 0.10M C K1=5.25 B2=10.20 1977D0b (39497)1891
                        B(ZnHL)=11.64
Zn++ gl KNO3 25°C 0.20M U T K1=5.15 B2=9.99 1971RMd (39498)1892
K1(15 C)=5.19, K1(40 C)=4.96, K2(15 C)=4.95, K2(40 C)=4.72
______
Zn++ gl KNO3 37°C 0.15M U K1=5.03 B2=9.81 1969PSb (39499)1893 B3=12.09
-----
Zn++ gl KNO3 25°C 0.20M U K1=5.62 1963CCb (39500)1894
-----
            25°C .058M U T K1=5.38 B2=9.84 1961SMa (39501)1895
Zn++ gl KCl
0 C: K1=5.66, K2=4.72; 45 C: K1=5.02, K2=4.41
______
   gl oth/un 20°C .005M U B2=9.6 1953PEa (39502)1896
Medium: 0.005 ZnSO4
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Zn++ gl oth/un 20°C .015M U B2=8.7 1952ALa (39503)1897
Zn++ gl KNO3 30°C 1.0M U T K1=5.77 B2=16.27 1952HAa (39504)1898
50 C: K1=5.96, K2=4.49
********************************
            H2L
C5H9N3O4S
                          CAS 16907-58-7 (2106)
Thiosemicarbazone-diethanoic acid; H2N.CS.NH.N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                        K1=5.8
     gl KCl
            30°C 0.10M U
                                 1967GNb (39559)1899
                       K(Zn+HL)=4.4
______
Zn++ cal KNO3 30°C 0.10M U H
                                1967GNc (39560)1900
DH(K1)=13.0 kJ mol-1, DS=155 J K-1 mol-1
**********************************
            H2L
                          CAS 85594-21-4 (9125)
2-(Acetylamino)-N,N'-dihydroxypropanediamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ vlt KNO3 25°C 0.10M C
                                 2004YYa (39580)1901
                       K1eff=9.00
Method: square wave voltammetry. Medium pH 7.0.
***************************
C5H9N3O5
                          CAS 4438-86-2 (3622)
Semicarbazone-1,1-diethanoic acid; H2N.CO.NH.N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·-----
Zn++ gl KCl 30°C 0.10M U
                       K1=6.6
                                1967GNb (39589)1902
                       K(Zn+HL)=5.1
_____
Zn++ cal KNO3 30°C 0.10M U H
                                1967GNc (39590)1903
DH(K1)=-1.7 kJ mol-1, DS=121 J K-1 mol-1
**********************************
                            (1822)
C5H9N3S
             HL
2-Mercaptohistamine;
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M U K1=9.17 B2=15.72 1977STc (39604)1904
**************************
C5H10N07P
            H4L
                PMIDA
                          CAS 5994-61-6 (2433)
N-(Phosphonomethyl)iminodiethanoic acid; H2O3P.CH2.N(CH2.COOH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=12.36
                               2000SDa (39645)1905
```

```
K(ZnL+H)=4.78
                       K(ZnHL+H)=2.1
                       K(ZnL+OH)=3.3
Zn++ gl KNO3 30°C 0.10M U T HM K1=12.94 B2=22.34 1997RPc (39646)1906
                       K(ZnL+gly)=3.51
                       K(ZnL+ala)=3.25
                       K(ZnL+A)=8.36
                       K(Zn(phen)+L)=12.75
Data for 20-50 C. DH(K1)=-37 kJ mol-1, DS(K1)=126 J K-1 mol-1, DH(K2)=-26,
DS(K2)=93. H2A is catechol. K(Zn(bpy)+L)=12.63, K(Zn(ida)+L)=11.40.
-----
Zn++ gl NaCl 25°C 0.10M U
                      K1=11.55 1993DLa (39647)1907
                       B(ZnHL)=16.28
                      B(ZnH-1L)=1.23
-----
     ix NaNO3 RT 0.10M U K1=13.2 1985PMc (39648)1908
______
Zn++ oth KNO3 RT 0.10M C
                                1980MVa (39649)1909
                       K(Zn+HL)=5.9
Method: paper electrophesis.
-----
Zn++ gl KCl 30°C 0.10M U K1=9.0 19580Mb (39650)1910
***********************************
C5H10N2O2 HL
                           (3039)
Dimethylglyoxime O-methyl ether; CH3.C(:N.OH).C(:N.O.CH3).CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=7.47 B2=14.36 1954CFa (39704)1911
CAS 2762-32-5 (3041)
C5H10N2O2
            HL
Piperazine-2-carboxylic acid; C4H9N2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 22°C 0.10M U K1=4.4 1960REb (39718)1912
*******************************
                Glutamine CAS 56-85-9 (18)
            HL
2-Aminopentanedioic acid 5-amide; H2N.CH(CH2.CH2.CO.NH2)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ vlt KNO3 25°C 0.10M C M K1=4.38 B2= 8.38 1991KNb (39790)1913
                       B3=10.24
                       B(ZnAL)=5.97
                       B(ZnA2L)=8.26
                       B(ZnAL2)=9.61
Method: polarography, medium pH 8.5. HA is ethanoic acid.
______
```

```
gl NaCl 37°C 0.15M U M T K1=4.215 B2=7.808 1985CFb (39791)1914
Zn++
                      B(ZnH-1L2)=-1.35
Ternary complex with cysteine
______
Zn++ gl NaClO4 37°C 0.15M U T K1=4.174 B2=7.66 1980KBa (39792)1915
B(7nH-11)=-2.1
                      B(ZnH-1L)=-2.1
______
Zn++ gl NaCl04 25°C 0.10M U K1=4.17 B2=7.75 1973TSb (39793)1916
______
Zn++ gl NaClO4 25°C 3.00M U T K1=4.83 B2=9.17 1973WIa (39794)1917
                      B3=11.84
-----
Zn++ gl oth/un 15°C .005M U B2=8.4
                            1953PEa (39795)1918
Medium: 0.005 ZnSO4
***********************************
       HL
               Ala-Gly
                        CAS 687-69-4 (55)
Alanyl-glycine; H2N.CH(CH3).CO.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 20°C 0.20M U K1=2.71 B2=5.52 1982KRc (39880)1919
-----
Zn++ gl oth/un 25°C 0.01M U K1=3.00 1954PEa (39881)1920
**************************
C5H10N2O3 HL Gly-DL-Ala CAS 926-77-2 (66)
Glycyl-DL-alanine; H2N.CH2.CO.NH.CH(CH3).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 20°C 0.20M U K1=3.47 B2=6.51 1982KRc (39929)1921
______
Zn++ gl oth/un 25°C 0.01M U K1=4.1 1954PEa (39930)1922
***************************
               Gly-Ala CAS 3695-73-6 (56)
            HL
Glycyl-alanine; H2N.CH2.CO.NH.CH(CH3).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 30°C 0.20M U M K1=4.10 1999PGa (39994)1923
                      B(ZnAL)=5.50
                      B(ZnBL)=6.19
                      B(ZnCL)=6.19
A=imidazole, B=2-methylimidazole, C=2-ethylimidazole.
-----
Zn++ gl NaClO4 25°C 0.20M M K1=3.78 1996VBa (39995)1924
Zn++ gl NaCl04 25°C 0.20M M M K1=3.789 B2= 6.65 1994VBb (39996)1925
                      B(ZnH-1L)=-3.968
B(Zn(Ala)L)=8.826, B(Zn(Phe)L)=8.594, B(Zn(Tyr)L)=8.641,
B(Zn(Trp)L)=8.823, B(Zn(His)L)=10.794, B(ZnH(His)L)=16.912.
```

```
Zn++ gl NaClO4 25°C 0.20M M K1=3.789 B2= 6.65 1994VBc (39997)1926
*****************************
C5H10N2O3
                          CAS 5619-16-9 (4324)
Glycylglycine methyl ester; H2N.CH2.CO.NH.CH2.CO2CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.05M U K1=2.77 B2=5.10 1973NAb (40031)1927
*******************************
                Cys-Gly
            H2L
                         CAS 19246-18-5 (2006)
Cysteinyl-glycine; H2N.CH(CH2.SH)CO.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 35°C 0.10M C T HM K1=8.51 2003RRa (40058)1928
                       B(ZnLA)=17.18
HA is histidylglycine. Data for 35 and 45 C. DH(ZnLA)=-42.9 kJ mol-1,
DS(ZnLA)=185 \ J \ K-1 \ mol-1.
-----
   gl KCl
            25°C 0.20M C K1=8.15 B2=15.96 1988SKc (40059)1929
**************************
                Gly-Cys
C5H10N2O3S
                          CAS 57281-78-4 (2550)
            H2L
Glycyl-cysteine; H2N.CH2.CO.NH.CH(CH2.SH).COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
    gl KCl 25°C 0.20M C
                       B2=11.60
                                1988SKc (40066)1930
                       B(ZnHL2)=20.28
                       B(ZnH2L2)=27.86
                       B(ZnH-1L2)=1.87
********************************
C5H10N2O4
                          CAS 1955-67-5 (6736)
2-Aminopentanoic-5-hydroxamic acid; HOOC.CH(NH2).CH2.CH2.CO.NOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       K1=7.34
Zn++ gl KCl 25°C 0.20M C
                                1993FBa (40076)1931
                       B(ZnHL)=14.22
                       B(Zn2HL)=19.97
                       B(Zn2L)=10.90
                       B(Zn2H-1L)=0.48
********************************
                Gly-Ser CAS 7361-43-5 (281)
             HL
Glycyl-serine; H2N.CH2.CO.NH.CH(CH2.OH).COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.01M U K1=3.7 1954PEa (40098)1932
```

```
Ser-Gly CAS 687-63-8 (2386)
C5H10N2O4
             HL
Seryl-glycine; H2N.CH(CH2.OH).CO.NH.CH2.COOH
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C K1=3.75 B2= 5.36 1986FTa (40116)1933
**********************************
C5H10N4OS
                            (2817)
Biacetylmonoxime-thiosemicarbazone; CH3.C(:N.NH.CS.NH2).C(:N.OH).CH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl alc/w 30°C 50% U T H K1=6.87 1992HRa (40129)1934
Medium: 50% v/v EtOH/H2O, 0.1 M NaClO4. Data for 40 and 50 C.
DH(K1) = -50.5 \text{ kJ mol} - 1, DS(K1) = 36.0 \text{ J K} - 1 \text{ mol} - 1.
*****************************
C5H10N4O3
                          CAS 54376-69-1 (8335)
N,N'-Carbonylbis(2-aminoacetamide);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaClO4 25°C 0.10M U TIH K1=10.15 B2=16.35 1980SAc (40135)1935
Data for 0.075-0.15 M. At I=0, K1=10.50, K2=6.45. Also data for 30 C.
DH and DS values.
************************************
                           CAS 110-50-9 (591)
(Butoxy)dithiomethanoic acid; CH3.CH2.CH2.CH20.CSSH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     vlt KNO3 25°C 0.40M C
                                 1984HSb (40152)1936
                       B3=9.04
Method: polarography.
-----
   dis KNO3 25°C 1.00M U B2=6.8 1983SAa (40153)1937
*********************************
C5H10OS2
                          CAS 6791-12-4 (8866)
Isobutoxydithiomethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ vlt KNO3 25°C 0.40M C
                                 1984HSb (40166)1938
                       B3=9.20
Method: polarography.
************************
                 IsoValeric acid CAS 503-74-2 (1311)
C5H1002
             HL
3-Methyl-butanoic acid, Isovaleric acid; (CH3)2CH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl NaNO3 25°C 0.10M C I M K1=0.96
                                  1988LTc (40181)1939
Zn++
                        K(Zn(phen)+L)=0.93
Data also for 50% v/v EtOH/H2O, and 50% v/v Dioxan/H2O mixtures
-----
Zn++ vlt NaClO4 30°C 0.50M C
                         K1=1.30 B2= 0.90 1978GCb (40182)1940
                        B3=2.30
Method: polarography. Medium pH 6.4
***************************
          HL n-Valeric acid CAS 109-52-4 (3027)
C5H1002
Pentanoic acid; CH3(CH2)3.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% C M K1=2.44 1985STb (40197)1941
                       K(Zn(phen)+L)=2.42
-----
Zn++ vlt NaClO4 30°C 0.50M C K1=0.30 B2= 1.23 1978GCb (40198)1942
                        B3=2.00
Method: polarography. Medium pH 6.4
*******************************
                           CAS 4455-13-4 (4321)
              HL
(1-Methylethylthio)ethanoic acid; (CH3)2.CH.S.CH2.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl diox/w 25°C 50% U M K1=2.22 1972SGa (40228)1943
                        K(ZnA+bpy)=2.22
**************************
                           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
Zn++ gl diox/w 25°C 50% U M K1=2.26
                                  1972SGa (40234)1944
                        K(ZnA+bpy)=2.19
Medium: 50% dioxan/H2O, 0.1 M NaClO4
******************************
C5H1002S
                           CAS 7244-82-8 (3042)
            HL
3-Ethylthiopropanoic acid; CH3.CH2.S.CH2.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=3.02 B2=6.24 1956IFa (40239)1945
*************************
C5H10O3S
                            (4325)
Methoxyethyl thioglycollate; HS.CH2.CO.OCH2.CH2.OCH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     vlt KNO3 25°C 0.50M U K1=3.95 B2=6.95 1971SSf (40292)1946
```

```
**********************************
                            CAS 1003-03-8 (304)
Cyclopentylamine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaClO4 37°C 0.15M C
                         K1=4.164 B2=7.832 1974MWb (40390)1947
                         B(Zn2H-2L2)=4.465
*******************************
                  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
______
Zn++ cal non-aq 25°C 100% C IH
                                    2002LVa (40426)1948
                          K(ZnP+L)=3.61
                          K(ZnPL+L)=2.90
Medium: CCl4. ZnP: Zn(II)tetraphenylporphyrine. DH(ZnP+L)=-21.17 kJ mol-1,
DS=-2 J K-1 mol-1; DH(ZnPL+L)=-3.46, DS=44. Data for related ligands.
______
     sp non-aq 25°C 100% U
                                   1994IUa (40427)1949
                         K(ZnP+L)=5.81
Medium: CHCl3. ZnP is a zinc porphyrin host.
______
     sp non-aq 25°C 100% U M
                                    1993BKd (40428)1950
                         K(ZnA+L)=6.16
Medium: toluene. A:2,3,7,8,12,13,17,18-octabromo-5,10,15,20-tetraphenyl-
porphyrin. Also data for L=pyridine (4.84), imidazole (5.84), DMSO (4.12).
______
      sp non-aq 25°C 100% U M
                                    1993SSc (40429)1951
Zn++
                         K(ZnA+L)=4.551
Medium:Toluene. H2A:Octaethylporphyrin.
      sp non-aq ? 100% U M
                                   1990AHb (40430)1952
                          K(ZnA+L)=4.08
Medium: CH2Cl2. A=biphenyl capped mesoporphyrin. Data for other porphyrin
Zn complexes
*********************************
              HL Valine
                            CAS 72-18-4 (43)
2-Amino-3-methylbutanoic acid; H2N.CH(CH(CH3)2)COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl NaNO3 25°C 0.10M C
                       M K1=5.32 B2= 9.19 2000ZLa (40629)1953
                          B(ZnLA)=11.25
A=12-Pentyl-1,4,7,10-tetraazacyclotridecane-11,13-dione.
______
Zn++ gl KNO3 35°C 0.10M C M K1=4.53 B2= 8.43 1998ZWa (40630)1954
                          B(ZnH-1L2)=0.95
```

```
B(ZnH-2L2)=-8.19
```

```
Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-
2,10-dione dioxime
______
Zn++ gl KNO3 25°C 0.20M U T HM K1=5.33
                                  1996JLd (40631)1955
                        K(Zn(bpy)+L)=5.06
Data for 25-45 C. DH(K1)=-24.3 kJ mol-1, DS(K1)=22 J K-1 mol-1;
DH(Zn(bpy)L)=-46.0, DS(Zn(bpy)L)=57.
______
Zn++ gl KNO3 30°C 0.10M U K1=4.76 1994RSa (40632)1956
-----
Zn++ gl NaClO4 25°C 0.20M U T M K1=4.74 B2= 8.98 1993PPa (40633)1957
                        K(ZnA+L)=4.63
A is 2,2'-bipyridylamine. Also data for 35 and 45 C.
______
Zn++ gl KCl 25°C 0.10M C TI T K1=4.46 B2=8.24 1993SKa (40634)1958
IUPAC evaluation
______
Zn++ vlt KNO3 25°C 0.10M C M K1=4.43 B2= 8.58 1991KNb (40635)1959
                        B3=10.84
                        B(ZnAL)=6.17
                        B(ZnA2L)=8.57
                        B(ZnAL2)=10.16
Method: polarography, medium pH 8.5. HA is ethanoic acid.
______
Zn++ gl KNO3 37°C 0.15M C M K1=4.50 1990KKc (40636)1960
                        B(ZnH-1L)=-2.95
                        B(ZnHL(imidazole))=14.40
                        B(ZnL(imidazole)2)=10.38
______
Zn++ gl KNO3 37°C 0.15M U M K1=4.50 1990KKc (40637)1961
                        B(ZnH-1L)=-2.95
                        B(ZnA2L)=10.38
                        B(ZnHAL)=14.40
A: imidazole
-----
Zn++ gl KNO3 25°C 0.10M C M
                                 1989MAd (40638)1962
                        K(ZnA+L)=4.27
                        B(ZnAL)=11.12
H2A is N-(2-acetamido)imino diethanoic acid.
-----
Zn++ gl KNO3 35°C 0.20M U M K1=4.70 B2=8.72 1989RVa (40639)1963
                        K(ZnA+L)=4.21
A=bis(imidazol-2-yl)methane
______
Zn++ gl NaClO4 27°C 0.20M U M K1=4.74 B2= 8.98 1988PPc (40640)1964
                      K(ZnA+L)=4.63
A is 2,2'-dipyridylamine.
-----
Zn++ ISE KNO3 25°C 0.10M U M T K1=4.50 B2=8.16 1985DVa (40641)1965
```

K(Zn(IDA)+L)=3.30

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______
Zn++ gl KNO3 25°C 0.10M U K1=4.58 1985MKa (40642)1966
______
Zn++ gl oth/un 30°C 0.20M U M K1=4.74 1984J0b (40643)1967
                      K(Zn(bpy)+L)=4.69
Medium: not stated.
______
Zn++ oth NaClO4 35°C 0.10M U M K1=4.40 B2=7.81 1984SYa (40644)1968
                      B(Zn(NTA)+L)=3.17
Method: paper electrophoresis
______
Zn++ vlt KNO3 30°C 0.30M C M K1=4.50 B2= 7.35 1983APa (40645)1969
                       B(ZnAL)=6.77
                       B(ZnAL2)=7.71
                       B(ZnA2L)=8.07
Method: polarography. Medium: 0.30 M KNO3, pH 8.0. H2A is oxalic acid.
B(Zn(en)L)=10.12, B(Zn(en)L2)=11.00, B(Zn(en)2L)=12.65
Zn++ gl KNO3
           37°C 0.15M U T K1=4.44 B2=8.24 1969CPc (40646)1970
                       B3=10.62
                       K(ZnL+H20=Zn(OH)L+H)=-8.62
-----
Zn++ oth oth/un 25°C 0.50M U T K1=4.40 B2=8.17 1967RPd (40647)1971
Method: optical rotation
______
     ISE oth/un 25°C 4.0M U
                      T K1=4.60 B2=9.06 1958PEa (40648)1972
Method: Cd/Hg electrode
      ISE oth/un 25°C 4.0M U T K1=4.67 B2=8.97 1958PQa (40649)1973
Method: Cd/Hg electrode
______
Zn++ gl oth/un 25°C 0.02M U B2=8.1 1954REa (40650)1974
-----
Zn++ gl oth/un 20°C 0.01M U B2=8.2 1952PEa (40651)1975
Medium: ZnSO4
           _____
Zn++ gl oth/un 25°C 0.01M U K1=5.00 B2=9.10 1949MMa (40652)1976
*******************************
            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
-----
     gl NaNO3 25°C 0.10M C M K1=5.30 B2= 9.64 2000KAb (40815)1977
                       K(ZnA+L)=3.52
H2A=Dipicolinic acid.
______
Zn++ gl KNO3 25°C 0.20M U T HM K1=4.50 1996JLd (40816)1978
                       K(Zn(bpy)+L)=4.25
```

```
Data for 25-45 C. DH(K1)=-17.6 kJ mol-1, DS(K1)=33 J K-1 mol-1;
DH(Zn(bpy)L)=-15.9, DS(Zn(bpy)L)=29.
-----
Zn++ gl KNO3 25°C 0.10M C T K1=4.42 B2=8.52 1975IPb (40817)1979
Zn++ gl oth/un 25°C 0.02M U K1=5.09 B2=9.19 1954REa (40818)1980
______
Zn++ gl oth/un 20°C 0.00 U B2=8.1
                                  1952PEa (40819)1981
Medium: 0.0005 ZnSO4
*******************************
         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
______
Zn++ gl KNO3 25°C 0.10M C M K1=4.82 1999AAa (41028)1982
                        K(ZnL+A)=3.74
                         B(ZnLA)=8.56
                         K(ZnHL+B)=1.89
                         K(ZnHL+C)=1.78
HA=MOPSO, HB=MOPS, HC=DIPSO.
______
Zn++ vlt NaClO4 25°C 1.0M C M K1=4.38 B2= 8.36 1997KKb (41029)1983
                         B3=11.73
                         B(ZnAL)=4.52
                         B(ZnA2L)=8.72
                         B(ZnAL2)=11.92
Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50.
Zn++ gl KNO3 25°C 0.10M C R K1=4.38 B2=8.35 1995BEa (41030)1984
IUPAC evaluation
______
Zn++ gl NaNO3 25°C 0.10M U K1=4.37 B2= 8.75 1995ZWa (41031)1985
Data for DL-methionine.
______
Zn++ gl NaCl04 25°C 0.20M U T M K1=4.69 B2= 8.65 1993PPa (41032)1986
                         K(ZnA+L)=4.54
A is 2,2'-bipyridylamine. Also data for 35 and 45 C.
       1991HWa (41033)1987
Zn++ gl NaCl 37°C 0.15M U M
                         B(ZnLA) = 9.696
                         B(ZnHLA)=16.746
                         B(ZnH2LA) = 20.889
H2A is 7-oxabicyclo-[2,2,1]-hept-5-ene-2,3-dicarboxylic acid
______
    gl KNO3 35°C 0.20M U M K1=4.37 B2=7.93 1989RVa (41034)1988
Zn++
                        K(ZnA+L)=3.81
A=bis(imidazol-2-yl)methane
-----
Zn++ gl KNO3 25°C 0.10M M M
                                  1989SHd (41035)1989
```

```
K(Zn(nta)+L)=2.94
```

```
______
Zn++ gl NaClO4 27°C 0.20M U M K1=4.69 B2= 8.65 1988PPc (41036)1990
                     K(ZnA+L)=4.54
A is 2,2'-dipyridylamine.
                  Zn++ gl KNO3 25°C 0.10M U K1=4.45 1985MKa (41037)1991
-----
Zn++ gl oth/un 30°C 0.20M U M K1=4.69 1984J0b (41038)1992
                     K(Zn(bpy)+L)=4.59
Medium: not stated.
-----
Zn++ gl KCl 25°C 0.20M U K1=4.30 B2=8.15 1982FGa (41039)1993
______
Zn++ gl KNO3 25°C 0.10M C T K1=4.39 B2=8.38 1975IPb (41040)1994
-----
Zn++ oth KNO3 20°C 0.10M U K1=4.9 B2=8.50 1964J0a (41041)1995
                     K3 = 3.2
Method: paper electrophoresis
______
Zn++ gl KNO3 25°C 0.10M U K1=4.37 B2=8.33 1964LMa (41042)1996
Zn++ vlt oth/un 25°C ? U K1=8.3 1959MHa (41043)1997
Zn++ gl KNO3 25°C 0.15M U K1=4.38 B2=8.47 1955LMa (41044)1998
-----
Zn++ gl oth/un 18°C .005M U B2=8.3
                             1953PEa (41045)1999
Medium: 0.005 ZnSO4
***********************************
C5H11N02S
                        CAS 93964-73-9 (3633)
Cysteine ethyl ester; H2N.CH(CH2.SH).CO.OCH2.CH3
------
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaCl04 25°C 0.10M M K1=7.42 B2=16.33 1993GVa (41143)2000
                     B(ZnHL)=12.70
______
Zn++ EMF oth/un ? dil U K1=8.61 B2=16.99 1967YTa (41144)2001
*********************************
           H2L D-Penicillamine CAS 52-67-5 (1323)
D-2-Amino-3-mercapto-3-methylbutanoic acid; (CH3)2C(SH)CH(NH2)COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 37°C 0.15M C M
                              1996NAa (41169)2002
                     B(ZnHLA)=23.79
                     B(ZnLA)=16.96
                     K(ZnHA+L)=10.18
                     K(ZnL+A)=6.63
HA is DL-2,3-diaminopropanoic acid, HB is DL-2,4-diaminobutanoic acid.
```

```
B(ZnH2LB)=30.67.
______
Zn++ gl NaClO4 37°C 0.15M C M
                                    1996NAa (41170)2003
                          B(Zn(orn)H2A)=31.44
                          B(Zn(orn)HA)=24.65
                          K(ZnH(orn)+L)=10.09
                          K(ZnL+orn)=6.59
K(Zn(orn)+L)=10.23, B(Zn(orn)L)=16.92.
______
Zn++ oth NaCl04 35°C ? U K1=9.70 B2=17.01 1991TSb (41171)2004
-----
Zn++ gl KCl 25°C 0.10M M
                          K1=9.75 B2=19.56 1987HLa (41172)2005
                          B(ZnHL)=15.11
                          B(ZnHL2)=25.44
                          B(ZnH2L2)=30.7
______
Zn++ gl KNO3 25°C 0.10M C K1=9.42 B2=19.54 1983SLc (41173)2006
                          K(Zn+HL+L)=14.92
                          K(Zn+2HL)=9.67
                          B(ZnL3)=22.68
-----
Zn++ gl KCl 25°C 0.20M U M K1=9.66 B2=19.39 1979SGa (41174)2007
                          B(ZnHL)=14.80
                          B(ZnHL2)=25.23
                          B(ZnH2L2)=30.65
                          B(ZnL(Gly))=13.51
B(ZnL(His))=15.14, B(ZnL(Histamine))=14.61
*******************************
             H2L Penicillamine CAS 52-66-4 (350)
DL-2-Amino-3-mercapto-3-methylbutanoic acid; (CH3)2C(SH)CH(NH2)COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 37°C 0.15M C M K1=10.33 B2=20.19 1993NAc (41230)2008
                          B(ZnHL2)=25.99
                          B(ZnH2L2)=31.31
Data for ternary complexes with imidazole, histamine and histidine.
B(ZnH2L(his))=27.83, B(ZnHL(his))=22.66, B(ZnL(his))=16.66, K(ZnL+his)=6.3
______
Zn++ oth NaClO4 35°C 0.10M C M K1=9.80 B2=17.11 1993SGb (41231)2009
                          K(Zn(nta)+L)=5.36
Method: electrophoresis. Medium: pH 8.5
-----
Zn++ gl KNO3 32°C 0.0 U
                                    1992BKf (41232)2010
                          K(Zn+H2L=ZnL+2H)=-8.13
                          K(Zn+2H2L=ZnL2+4H)=-18.23
Medium: 0.005 M KNO3
Zn++ gl KNO3 25°C 0.10M M M
                                    1989SHd (41233)2011
```

K(Zn(nta)+L)=7.28

K(Zn(nta)+H+L)=13.79

Zn++	gl	NaCl	37°C	0.15M	U	K1=10.017 B2=18.809 1984JSb (41234)2012			
Zn++ B(ZnH-1L2)			25°C	3.00M	С	B2=20.52 1976CWa (41235)2013 B(ZnHL2)=26.79 B(ZnH2L2)=32.72 B(Zn3L4)=47.58 B(Zn3HL4)=53.83			
∠n++	gı	KCI	25°C	0.12M	U	K1=9.42 B2=19.44 1972RJa (41236)2014 K(Zn+HL+L)=25.56 K(Zn+2HL)=30.89			
For the D isomer: K1=9.38, B2=19.39, K(Zn+L+HL)=25.55, K(Zn+2HL)=30.88									
Zn++	gl	NaC104	20°C			K1=9.59 B2=19.56 1968PSg (41237)2015 B(ZnH2L)=25.55 B(ZnH2L2)=31.17			
Zn++	vlt	oth/un	25°C			1966SPa (41238)2016 B3=16.11			
Medium: ph	osph	ate buf							
Zn++	gl	KNO3				K1=9.51 B2=18.51 1964LMa (41239)2017			
Zn++ ******	gl ****	KNO3 *****	25°C ****	0.15M *****	U ******	K1=10.0 B2=18.90 1962KRa (41240)2018 ***********************************			
C5H11N02S HL CAS 2629-59-6 (2461) S-Ethyl-L-cysteine; H2N.CH(CH2.S.C2H5).COOH									
Metal	Mtd	Medium	Temp	Conc (Cal Flags	s Lg K values Reference ExptNo			
						K1=4.17 B2=8.33 1981CPb (41290)2019 B(ZnH-1L)=-1.05			

Metal	Mtd	Medium	Temp	Conc (Cal Flags	s Lg K values Reference ExptNo			
Zn++ gl NaNO3 25°C 0.10M U K1=4.88 B2= 8.75 1995ZWa (41302)2020 Data for DL-selenomethionine. ***********************************									
C5H11NS2 Diethyldit			HL			CAS 147-84-2 (2126)			
Metal	Mtd	Medium	Temp	Conc (Cal Flags	s Lg K values Reference ExptNo			
Zn++	EMF	non-aq	25°C	100%	U	B2=11.9 1987USa (41329)2021			

```
Medium: DMF, 0.1 M LiClO4
______
     ISE non-ag 25°C 100% U K1=7.83 B2=15.7 1984LSb (41330)2022
Medium: DMSO, 0.1 M NaClO4; Ag-electrode. In MeOH: K1=7.7, B2=15.1
______
   dis oth/un 25°C 0.01M U B2=11.4
                               1973SSa (41331)2023
______
     vlt KCl 25°C 1.00M U
                              1973SSa (41332)2024
                     B2=11.6
______
    sp non-aq ? 100% U M
                               1968SRg (41333)2025
                      K(Zn(HA)2+2HL=ZnL2+2H2A)=0.24
Medium: CCl4. H2A=dithizone
**********************************
           H2L Ribose-5-phosph CAS 4300-28-1 (2756)
Ribose-5-phosphoric acid, Ribofuranoside 5 Phosphoric acid;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.10M C K1=2.20 1988MSa (41414)2026
*************************
               PYPH
            H2L
                          (223)
Piperidine-2-phosphonic acid; C5H10N.PO3H2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 24°C 0.10M U
                      K1=5.86 1989YKa (41432)2027
                     K(Zn+HL)=2.16
*********************************
                         CAS 51276-47-2 (5704)
2-Amino-4-(methylhydroxyphosphoryl)butanoic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaClO4 23°C 0.10M U K1=5.26 1990YTa (41440)2028
C5H12N2O
               TMU
                        CAS 632-22-4 (146)
Tetramethylurea; (CH3)2N.CO.N(CH3)2
 ______
    Mtd Medium Temp Conc Cal Flags Lg K values
                                Reference ExptNo
______
     cal oth/un 25°C
               ? U
                               1980ACa (41476)2029
ZnX2(s)+2L=ZnL2X2(s) DH = -83.1 X=Cl DH = -88.7 X=Br DH = -128 X=I
*********************************
               Ornithine CAS 1069-31-4 (46)
C5H12N2O2
            HL
2,5-Diaminopentanoic acid; H2N.CH2.CH2.CH2.CH(NH2)COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ vlt NaClO4 25°C 1.0M C
                               1999VKc (41547)2030
                      B(ZnLA)=4.87
```

```
B(ZnLA2)=7.51
Method: polarography. Medium pH: 8.5. A is 4-picoline.
______
    gl KCl
             30°C 0.16M U I
                        K1=6.90 B2=10.33 1997BSb (41548)2031
Zn++
                        B(ZnHL)=14.39
                        B(ZnHL2)=19.50
Also data for 5.8-36.8% w/w urea/H20.
______
Zn++ gl NaClO4 25°C 1.0M U M
                                 1995KDa (41549)2032
                        K(Zn+HL)=3.92
                        K(Zn+2HL)=6.86
                        K(Zn+3HL)=9.49
                        K(Zn+HL+A)=6.23
Medium pH 8.50. K(Zn+HL+2A)=8.60, K(Zn+2HL+A)=10.0. HA is propanoic acid.
                K1=7.34 B2=10.97 1990BFb (41550)2033
Zn++ gl NaCl 25°C 1.0M C
                        B(ZnHL)=14.66
                        B(ZnHL2)=19.15
                        B(ZnH2L2)=28.63
                        B(ZnH2L)=19.78
Method: measurement by glass and Zn/Hg electrodes.
______
Zn++ gl NaClO4 37°C 0.15M U
                                  1990NTb (41551)2034
                        B(Zn(glu)HL)=11.56
                        K(Zn(glu)+L)=6.17
                        K(ZnL+glu)=6.29
Zn++ gl NaClO4 37°C 0.15M C M K1=6.69
                                  1986NPa (41552)2035
                        B(ZnHL)=14.56
                        B(ZnH2L2)=27.83
B(ZnLA)=11.56, B(ZnHLA)=19.33, A = histamine. Also histidine
          K1=6.17
Zn++ gl KCl 25°C 0.20M C
                                 1981FGb (41553)2036
                        B(ZnHL)=14.25
                        B(ZnH2L2)=27.85
                        B(ZnHL2)=19.31
______
Zn++ gl KNO3 25°C 0.10M U I
                                  1970CMc (41554)2037
                        K(Zn+HL)=3.77
                        K(ZnHL+HL)=2.67
I=1.0 M, K(Zn+HL)=2.60
______
Zn++ gl oth/un 25°C 0.02M U K1=4.10 B2=7.30 1954REa (41555)2038
-----
Zn++ gl oth/un 20°C .005M U
                        B2=7.6
                                 1953PEa (41556)2039
Medium: 0.005 ZnSO4
______
Zn++ gl oth/un 20°C 0.01M U B2=6.9 1952ALa (41557)2040
**********************************
```

HL Met-hydroxamic CAS 19253-87-3 (5992)

C5H12N2O2S

```
2-Amino-4-(methylthio)butanehydroxamic acid, Methionine hydrox.a.;
CH3.S.CH2.CH2.CH(NH2).CO.NHOH
______
                                Reference ExptNo
     Mtd Medium Temp Conc Cal Flags Lg K values
-----
                    _ _ _ M
Zn++ gl NaCl 37°C 0.15M M
                               1992MMd (41604)2041
                      B(ZnHL)=11.68
                      B(ZnH-1L)=-1.40
                      B(ZnH-1L2)=1.47
                      B(ZnH2L2)=24.27
B(Zn2L3)=18.97, B(ZnCuL2)=21.90, B(ZnCuH-1L2)=16.72, B(ZnCuH-2L2)=10.01
B(CuZnH-3L3)=9.5, B(ZnNiH-1L2)=10.96, B(ZnNiH-2L2)=4.09, B(ZnNiH-3L3)=19.73
*********************************
C5H12N2O2S
3-(2-Aminoethyl)thio-L-alanine; H2N.CH2.CH2.S.CH2.CH(NH2)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C
                               1974NBb (41613)2042
                      K(Zn+HL)=3.71
                      K(ZnHL=ZnL+H)=-6.82
C5H12N4O3
            HL
                Canavanine
                         CAS 543-38-4 (5565)
Canavanine; H2N.CH(COOH).CH2.CH2.O.NH.C(:NH)-NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.10M U K1=5.00 B2= 9.20 1991APa (41639)2043
H3L
                        CAS 19872-38-9 (4331)
C5H12O3S4
2,3-Dimercaptopropylthioethanesulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     EMF KNO3 20°C 0.10M U K1=14.20 B2=24.95 1968PRc (41650)2044
C5H12O4S3
            H3L
                         CAS 19872-36-7 (4332)
2,3-Dimercaptopropanoxyethanesulfonic acid; HS.CH2.CH(SH).CH2.O.CH2.CH2.HSO3
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ EMF KNO3 20°C 0.10M U K1=14.17 B2=24.38 1968PRc (41664)2045
*********************************
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
______
Zn++ EMF KNO3 ? 0.10M U K1=14.17 B2=24.21 1968PRc (41695)2046
*******************************
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```
CAS 105-59-9 (1070)
C5H13N02
N-Methyldiethanolamine; CH3.N(CH2.CH2.OH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
      gl oth/un 25°C 0.10M U
                        K1=4.3 B2=7.20
                                     1965D0b (41741)2047
                        K3=1.9
                        K4=1.0
**********************************
C5H13N06P2
                          CAS 56152-35-3 (8890)
N-Pyrrolidinomethane-1,1-diphosphonic acid;
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C
                        K1=10.74
                                  2002MKc (41749)2048
                        B(ZnH2L)=24.17
                        B(ZnHL)=19.89
                        B(ZnH-1L)=0.12
                        B(ZnH2L2)=37.55
B(Zn3H2L2)=46.85.
***********************************
C5H13N07P2
                           CAS 32545-75-8 (6890)
             H4L
N-Methylenedi(phosphonic acid)tetrahydrooxazine; OC4H8N.CH(PO3H2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KCl
                        K1=9.46
            25°C 0.10M M
                                 1978GMf (41762)2049
                        K(Zn+HL)=7.25
******************
                               *********
C5H13N2O4P
             H2L
                            (7122)
(S,S)-Alanyl-1-aminoethylphosphonic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.10M U K1=4.22
      gl KCl
                                 1995HLa (41785)2050
For the (S,R) isomer, K1=4.24, B(ZnH-1L)=-4.26.
**********************************
C5H13N3
                            (1866)
cis-3,5-Diaminopiperidine; C5H9N(NH2)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M C K1=7.93 B2=14.42 2000PSb (41792)2051
*************************
C5H14N05P
                           CAS 5994-60-5 (1302)
             H2L
N,N'-Bis(2-hydroxyethyl)aminomethylphosphonic acid; (HO.CH2.CH2)2N.CH2.PO3H2
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl NaClO4 25°C 0.10M U K1=6.3
                                  1981BGb (41843)2052
```

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************************************
C5H14N2
                          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
______
           30°C 1.0M U TIH K1=5.21
      gl KNO3
                              B2=10.41 1952HAa (41872)2053
DH(K1)=-20.9 \text{ kJ mol}-1, DS=33.5; DH(K2)=-20.9, DS(K2)=33.5
0 C: K1=5.58, K2=5.58. In 1 M KCl, 30 C: K1=5.80, K2=4.55
******************************
                          CAS 195000-13-6 (8888)
N-(1-Methylpropyl)aminomethane-1,1-diphosphonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                        K1=10.16
Zn++ gl KCl 25°C 0.20M C
                                 2002MKc (41940)2054
                        B(ZnH2L)=23.56
                        B(ZnHL)=19.40
                        B(ZnH-1L)=-0.22
                        B(ZnH-2L)=-11.54
B(ZnH2L2)=36.53, B(ZnHL2)=26.00, B(Zn4H3L3)=68.59.
**************
                            *********
C5H15N07P2
            H4L
                 AMOK
                           CAS 63132-39-8 (1350)
1-Hydroxy-3-N,N-dimethylaminopropane-1,1-diphosphonic acid;
Me2N.CH2.CH2.C(OH)(PO3H2)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KCl 25°C 0.10M U
                       K1=10.24
                                 1979KBa (41949)2055
                        K(Zn+HL)=8.90
CAS 15995-42-3 (153)
1,1,1-Tris(aminomethyl)ethane; (H2N.CH2)3C.CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
______
     cal KNO3 25°C 0.50M C H
                                 1980SVa (41971)2056
DH1=-25.4 kJ mol-1, DS1=41, DH(K2)=-20.9, DS2=13 + ZnHL, Zn(OH)L and Zn(OH)2
       K1=7.47
    gl KNO3
            20°C 0.10M U
                                 1970KAd (41972)2057
                        K(Zn+HL)=3.82
                        K(Zn+H2L)=1.86
********************************
                          CAS 13531-52-7 (738)
1,4,8-triazaoctane, N-(2-Aminoethyl)propane-1,3-diamine; H2NCH2CH2NHCH2CH2NH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        K1=8.41 1996IFb (41995)2058
Zn++ gl NaClO4 25°C 0.10M U H
                        *K(ZnL) = -8.90
```

```
DH(K1) = -27.9 \text{ kJ mol-1}, DS(K1) = 67.8 \text{ J K-1 mol-1}.
    cal KNO3 25°C 0.50M U H
                                   1974BFb (41996)2059
DH(K1)=-35.2, DH(K2)=-35.3 kJ mol-1.
   gl KNO3 25°C 0.10M U K1=8.6 B2=12.40 1973AHc (41997)2060
 -----
      gl KNO3 25°C 0.50M U
                         K1=8.77 B2=12.57 1973BFa (41998)2061
                         K(ZnL+OH)=4.99
*******************************
                              (3614)
Tetrakis(aminomethyl)methane; C(CH2.NH2)4
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U
                                   1968ZBa (42011)2062
                         K(Zn+HL)=5.0
                         K(Zn+H2L)=3.2
********************************
                  Picric acid CAS 88-89-1 (593)
C6H3N3O7
2,4,6-Trinitrophenol; HO.C6H2(NO2)3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      sp oth/un 21°C 0.40M U B2=2.92
                                   1955BKa (42080)2063
Medium:0.2-0.6(some EtOH)
**************************
                            CAS 39825-15-5 (3709)
C6H4N02C1
4-Chloro-2-nitrosophenol; HO.C6H3.(2-N:O)(4-Cl)
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 25°C 50% U K1=4.53 1961SHa (42176)2064
Medium: 50% dioxan, 0.1 M KNO3
*********************************
                            CAS 100-48-1 (321)
C6H4N2
4-Cyanopyridine; C5H4N.CN
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     sp non-aq 25°C 100% U
Zn++
                                   1993SSc (42189)2065
                         K(ZnA+L)=3.012
                         K(ZnB+L)=3.234
                         K(ZnC+L)=3.554
Medium: Toluene. H2A: Octaethylporphyrin.
                         H2B=t-Octaethylchlorin.
H2C=ttt-Octaethylisobacteriochlorin
*********************************
C6H4N2O5
                            CAS 50-28-5 (505)
2,4-Dinitrophenol; HO.C6H3(NO2)2
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                    B2=2.26
     sp oth/un 21°C 0.40M U
                              1955BKa (42219)2066
Medium: 0.2-0.6, some EtOH
**********************************
                         CAS 7659-29-2 (2694)
1,2-Dihydroxy-3,5-dinitrobenzene; (HO)2.C6H2(NO2)2
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 25°C 0.10M M K1=6.92 B2=12.79 1986HAd (42259)2067
**********************************
                         CAS 900-47-0 (3083)
C6H4N40
            HL
4-Hydroxypteridine;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 20°C 0.01M U K1=3.3 1953ALa (42274)2068
CAS 615-94-1 (1280)
C6H404
2,5-Dihydroxy-1,4-benzoquinone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            30°C 25% M TIH K1=7.14 B2=12.20 1991GDe (42300)2069
      gl KCl
Medium: 35% Dioxan/H2O, 0.1 M NaClO4. Other solvents and backgrounf concs.
-----
      gl KCl
            30°C 25% M TIH
                            B2=10.22 1991GDe (42301)2070
Zn++
                      K1=6.04
Medium: 35% Dioxan/H2O, 0.1 M NaClO4. Other solvents and backgrounf concs.
***********************************
            H2L
                        CAS 499-78-5 (2544)
               Comenic acid
3-Hydroxypyran-4-one-6-carboxylic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ sp KCl 25°C 0.10M M I K1=5.28 1985PEe (42316)2071
______
Zn++ gl NaClO4 25°C 0.50M U K1=4.86 B2=8.76 1967CBb (42317)2072
Picolinaldehyde CAS 1121-60-4 (1186)
2-Pyridinecarboxaldehyde; C5H4N.CHO
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 25°C 0.10M U
                    Μ
                               2000NDa (42380)2073
                      B(Zn(val)L)=10.29
                      B(Zn(val)L2)=12.21
                      B(Zn(val)2L2)=16.71
                      B(Zn(phe)L)=10.17
B(Zn(phe)L2)=12.05, B(Zn(phe)2L2)=16.49, B(Zn(trp)L)=10.12,
```

```
B(Zn(trp)L2)=12.38, B(Zn(trp)2L2)=16.53.
_____
     gl KNO3 25°C 0.10M U M K1=1.67 B2= 3.27 1999NDa (42381)2074
Data for ternary complexes with histidine.
Zn++ nmr non-aq 30°C 100% U K1=0.14 B2=-0.65 1981PWa (42382)2075
Conductivity also used
Medium: CH3CN
**********************************
                          CAS 872-85-5 (1319)
4-Pyridinecarboxaldehyde; C5H4N.CHO
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ nmr non-aq 30°C 100% U K1=0.04 B2=-0.84 1981PWa (42388)2076
Conductivity also used
Medium: CH3CN
**********************************
            HL Picolinic acid CAS 98-98-6 (391)
2-Pyridine-carboxylic acid; C5H4N.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% C K1=6.10 B2=11.47 1988CFb (42457)2077
                       B3=15.77
Medium: 50% v/v dioxan/H2O, 0.1 M KNO3
______
Zn++ gl diox/w 25°C 50% C M
                                 1988CTa (42458)2078
                        B(ZnAL)=18.09
                        B(ZnAL2)=23.4
Medium: 0.2 M KNO3. H2A=3-Hydroxynaphthalene-1-carboxylic acid
------
Zn++ gl KNO3 25°C 0.15M U K1=5.177 B2=9.539 1988JJa (42459)2079 B3=12.90
______
      gl KNO3 25°C 0.10M U T K1=4.21
                                1988NSc (42460)2080
At 40 C, K1=4.02.
   gl alc/w 25°C var U T
                                 1974DKa (42461)2081
                        K1=72.32/D+5.245
D=Dielectric constant of the 1-PrOH/H2O mixture. Also at 0 and 40 C
______
Zn++ gl diox/w 25°C 50% U K2=6.08 1966WRb (42462)2082
Medium: 50% dioxan, 0.1 M NaClO4
______
Zn++ gl NaNO3 20°C 0.10M U K1=5.30 B2=9.62 1960ANb (42463)2083 K3=3.30
Zn++ gl oth/un 25°C 0.0 U K1=5.75 B2=10.01 1957LUa (42464)2084
_____
```

```
Zn++ gl KNO3 25°C 0.10M U K1=5.12 B2=9.42 1957SYa (42465)2085
Nicotinic acid CAS 59-67-6 (419)
3-Pyridine-carboxylic acid; C5H4N.COOH
------
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaCl 25°C 0.10M U
                    K1=2.36
                             2001DSb (42655)2086
-----
     gl KNO3 25°C 0.10M U
                      K1=7.20 B2=14.06 1988ZMa (42656)2087
                      K3=5.90
**********************************
                         CAS 824-40-8 (878)
            HHL
Pyridine-2-carboxylic acid N-oxide (Picolinic acid N-oxide); C5H4N(O)COO
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl NaClO4 25°C 0.10M U T
                       K1=3.25
                             B2=6.40 1981RRb (42828)2088
Temp range 25-50. K1 at 50 C = 3.00; K2 at 50 C = 2.85
*******************************
            H2L
                3-Nitrocatechol CAS 6665-98-1 (2685)
1,2-Dihydroxy-3-nitrobenzene; O2N.C6H3(OH)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.10M M K1=8.64 B2=15.80 1985HAb (42850)2089
     gl KCl
4-Nitrocatechol CAS 3316-09-4 (890)
C6H5N04
            H2L
1,2-Dihydroxy-4-nitrobenzene; O2N.C6H3(OH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Zn++ gl KNO3 25°C 0.10M C M K1=8.10 B2=13.99 1989DAa (42897)2090
                       K(ZnA+L)=6.75
                       B(ZnAL)=14.29
H2A: 8-hydroxyquinoline-5-sulfonic acid.
7n++
      gl KNO3 35°C 0.20M U M K1=6.52 B2=11.79 1989RVa (42898)2091
                       K(ZnA+L)=6.09
A=bis(imidazol-2-yl)methane
______
    gl NaClO4 30°C 0.05M U TIH K1=10.07 B2=18.64 1986NDa (42899)2092
I=0.1, 40 C: K1=7.74, B2=14.73; 50 C: K1=7.63, B2=14.40
I=0.1, 30 C:K1= 8.47, B2=15.89; I=0.2, 30 C:K1= 8.27, B2=15.46
______
   gl KCl 25°C 0.10M M K1=8.25 B2=14.85 1984HAb (42900)2093
Zn++
------
Zn++ gl KNO3 30°C 0.10M U K1=8.20 B2=15.00 1964MTb (42901)2094
******************************
C6H5N04
                         CAS 78901-24-3 (885)
             HL
```

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4-Hydroxypyridine-2-carboxylic acid N-oxide; C5H3N(O)(OH).COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 30°C 0.10M U T K1=3.68 B2=6.38 1982RRa (42967)2095
******************************
C6H5N2O2C1 L
                       CAS 635-22-3 (763)
3-Nitro-4-chloroaniline; H2N.C6H3(Cl)(NO2)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
Zn++ sp non-ag 25°C 100% U
                              1965SSe (42976)2096
                     K(ZnCl2+L)=1.37
                     K(ZnBr2+L)=1.52
                     K(ZnI2+L)=1.39
Medium: acetone
************************************
               Azabenzimidazol CAS 273-21-2 (2033)
            L
4-Azabenzimidazole, 1H-Imidazo[4,5-b]pyridine;
 -----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=1.11 B2=2.78 1981LMb (42986)2097
*****************************
          H2L 4-Cl-Catechol CAS 2138-22-9 (1656)
C6H5O2C1
1,2-Dihydroxy-4-chlorobenzene; Cl.C6H3(OH)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 30°C 0.10M U K1=8.63 B2=15.45 1964MTb (43080)2098
C6H5O4Br
                        CAS 40838-32-2 (1084)
6-Bromo-5-hydroxy-2-(hydroxymethyl)-4H-pyran-4-one;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     sp KCl 25°C 0.10M M I K1=4.59
                             1985PEe (43103)2099
********************
               Chlorokojic aci (3086)
            HL
3-Chloro-5-hydroxy-2-hydroxymethyl-4-pyrone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.50M U K1=4.88
                             1967CBb (43124)2100
-----
Zn++ gl diox/w 25°C 75% U K1=9.74 B2=17.75 1960KFc (43125)2101
**********************
               Iodokojic acid CAS 40838-33-3 (3681)
            HL
3-Iodo-5-hydroxy-2-hydroxymethyl-4-pyrone;
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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.50M U K1=4.92
                             1967CBb (43142)2102
(1085)
C6H5O4I
6-Iodo-5-hydroxy-2-hydroxymethyl-4H-pyran-4-one;
 Mtd Medium Temp Conc Cal Flags Lg K values
                              Reference ExptNo
______
Zn++ sp KCl 25°C 0.10M M I K1=4.67 1985PEe (43146)2103
*********************************
              3-Bromoaniline CAS 591-19-5 (758)
3-Bromoaniline; H2N.C6H4.Br
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     sp diox/w 25°C 100% U
                              1976BSa (43174)2104
                     K(ZnCl2+L)=1.49
*********************************
               4-Bromoaniline CAS 106-40-1 (757)
C6H6NBr
4-Bromoaniline; H2N.C6H4.Br
  -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     sp diox/w 25°C 100% U T H
Zn++
                              1976BSa (43182)2105
                     K(ZnCl2+L)=1.80
At 10-50 C. DH = -26.3 kJ mol-1. DS = -53.9 J K-1 mol-1.
*********************************
                         (8782)
5-Bromo-2-methylpyridine;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaNO3 25°C 0.50M C K1=0.00 2002KSb (43189)2106
CAS 10445-91-7 (8781)
C6H6NC1
4-(Chloromethyl)pyridine;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl NaNO3 25°C 0.50M C K1=1.01 2002KSb (43205)2107
*******************************
           H2L
                        CAS 330-13-2 (5865)
C6H6N06P
4-Nitrophenylphosphoric acid; NO2.C6H4.O.PO.(OH)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaCl 25°C 0.15M U K1=1.758
                             1990KLb (43238)2108
______
Zn++ gl NaNO3 25°C 0.10M C K1=1.73
                            1988MSa (43239)2109
```

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************************************
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
-----
Zn++ gl KNO3 25°C 0.50M U K1=1.00 B2=1.40 1974WAb (43256)2110
*****************************
C6H6N20
                         CAS 873-69-8 (1258)
Pyridine-2-aldoxime; C5H4N.CH:NOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 25°C 0.10M C
                                2003SSa (43283)2111
                       B(0,1,1)=1.902
                       B(-1,1,1)=-4.81
                       B(-1,1,2)=-2.50
                       B(-2,1,2)=-9.440
B(p,q,r): pH+qM+rHL=HpMq(HL)r. B(-2,2,2)=-6.76, B(-3,2,2)=-13.296,
B(-4,2,2)=-22.66, B(-3,1,3)=-17.09.
-----
Zn++ gl NaClO4 25°C 0.30M U K1=5.8 B2=11.10 1966BEa (43284)2112
Zn++ gl KNO3 24°C 0.10M U K1=5.5 B2=10.80 1962BEa (43285)2113
*************************
                Acetamidopyrid. CAS 1452-77-3 (2047)
Pyridine-2-carboxylic acid amide; C5H4N.CO.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=1.54 B2=2.67 1976WAa (43313)2114
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
______
Zn++ gl KNO3 25°C 0.50M U K1=0.78 B2=1.11 1981LRa (43332)2115
______
Zn++ oth none 0°C ? U K1=1.10 B2=1.85 1971KAc (43333)2116
Method: freezing point depression
*******************************
           HL Aminonicotinic CAS 5345-47-1 (903)
C6H6N2O2
2-Aminopyridine-3-carboxylic acid; H2N.C5H4N.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 35°C 0.15M U T H K1=2.78 1980SKb (43348)2117
Temperature range is 25-45C. At 35C, DH1=-6.40 kJ mol-1;
DS1=32.51 J mol-1 K-1.
```

```
gl diox/w 35°C 50% U K1=3.12
                                    1980SKb (43349)2118
*********************
C6H6N2O2
                              (8281)
3-Hydroxy-2-amidocarboxypyridine, Hydroxypicolinamide;
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 25°C 0.10M C
                          K1=5.62 B2=10.79 1990ARa (43368)2119
                          K(ZnL2+L)=4.2
******************************
               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
______
     sp non-aq 25°C 100% U M
                                    1965SSe (43382)2120
                          K(ZnCl2+L)=1.69
                          K(ZnBr2+L)=1.98
                          K(ZnI2+L)=1.88
Medium: acetone
*************************
               L
                  p-Nitroaniline CAS 100-01-6 (465)
C6H6N2O2
4-Nitroaminobenzene; H2N.C6H4.NO2
     -----
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
     sp non-aq 25°C 100% U
                        М
                                    1965SSe (43399)2121
                          K(ZnC12+L)=0.74
                          K(ZnBr2+L)=0.95
                          K(ZnI2+L)=0.78
Medium: acetone
************************************
                  Cupferron
                            CAS 135-20-6 (637)
N-Nitrosophenylhydroxylamine; C6H5.N(OH).NO
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ dis NaClO4 20°C 0.10M U
                                    1970VAa (43416)2122
                          K(ZnL2+py)=1.23
                          K(ZnL2+2py)=1.90
*********************************
C6H6N2O3
                            CAS 99-57-0 (469)
2-Amino-4-nitrophenol; H2N.C6H3(OH)(NO2)
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      gl diox/w 30°C 50% U K1=3.64 B2=6.13
                                       1966VMa (43443)2123
Medium: 50% dioxan, 0.1 M NaClO4
**********************************
```

```
C6H6N2O4
                Methyl orotate CAS 6153-44-2 (2612)
2,4-Dihydroxypyrimidine-6-caboxylic acid methyl ether
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 19°C 0.15M U K1=3.71 1979DZc (43457)2124
*********************************
                Methylorotic
                         CAS 706-36-2 (2611)
3N-Methyl-2,4-dihydroxypyrimidine-6-caboxylic acid, methylorotic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaCl 20°C 0.15M U
                              1979DZc (43465)2125
                      K1=6.20
                      K(Zn+HL)=2.36
**********************************
                Biimidazole CAS 492-98-8 (1007)
2,2'-Biimidazole; C3H3N2-C3H3N2
·
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M C K1=3.48 B2= 6.54 1998TSa (43481)2126
C6H6N4
                9-Methylpurine CAS 20427-22-9 (2480)
9-Methylpurine;
         Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 1.00M U K1=0.9 1983ALa (43490)2127
*********************************
           H2L Catechol CAS 120-80-9 (534)
C6H602
1,2-Dihydroxybenzene, pyrocatechol; HO.C6H4.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KNO3 30°C 0.10M U K1=8.32 1994RSa (43680)2128
-----
Zn++ gl NaClO4 25°C 0.20M M M K1=9.702 B2=18.51 1994VBc (43681)2129
                       B(Zn(ala)L)=14.482
                       B(Zn(phe)L)=14.234
                       B(Zn(tyr)L)=14.389
                       B(Zn(trp)L)=14.681
B(Zn(gly-gly)L)=13.084, B(Zn(gly-ala)L)=13.121.
Zn++ gl KNO3 25°C 0.10M C
                     М
                       K1=9.15 B2=16.40 1989DAa (43682)2130
                       K(ZnA+L)=8.10
                       B(ZnAL)=15.64
H2A: 8-hydroxyquinoline-5-sulfonic acid.
                      Zn++ gl KNO3 35°C 0.20M U M K1=8.11 B2=14.57 1989RVa (43683)2131
                       K(ZnA+L)=7.90
```

```
A=bis(imidazol-2-yl)methane
-----
    gl KNO3 35°C 0.10M U M K1=5.05 1989SRe (43684)2132
                      K(ZnL+Cytosine)=5.09
Zn++ gl NaClO4 30°C 0.10M M TIH K1=8.48 B2=15.51 1986DNa (43685)2133
Data for 0.05-0.20 M NaClO4. Extrap. to I=0.0, K1=8.96, B2=16.10.
Data for 30-50 C. DH(K1)=-25.5 kJ mol-1.
______
     gl KNO3 35°C 0.10M C
                               1985RRh (43686)2134
                      K(Zn+HL)=5.08
______
Zn++ gl KCl 25°C 0.20M C M
                               1979KGa (43687)2135
                       B(ZnHLA)=28.69
                       B(ZnLA)=18.26
H2A=dopamine.
-----
    gl NaClO4 30°C 0.20M U M
                               1974MJa (43688)2136
                    K(Zn(His)+L)=7.24
Zn++ gl NaCl04 25°C 0.10M U K1=9.90 B2=17.57 1971GSb (43689)2137
______
Zn++ gl KNO3 25°C 1.0M U
                               1968TMa (43690)2138
                      K(Zn+H2L=ZnL+2H)=-12.744
                      K(ZnL+H2L=ZnL2+2H)=-14.315
-----
     gl NaCl04 30°C 0.10M U K1=9.08 B2=16.32 1966APb (43691)2139
~
------
Zn++ gl KCl 25°C 0.10M U K1=9.50 B2=17.20 1966JNa (43692)2140
______
Zn++ gl KNO3 30°C 0.10M U K1=8.46 B2=15.24 1963MNc (43693)2141
C6H602S
                          (3683)
2-Acetyl-3-hydroxythiophene; C4H2S(CO.CH3)OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U M K1=4.86 1967SIb (43905)2142
                      K(Zn(bpy)+L)=4.86
Medium: 50% dioxan, 0.1 M NaClO4
-----
      sp diox/w 25°C 10% U K1=3.73
                               1966PSb (43906)2143
Medium: 50% dioxan, 0.1 M NaClO4. By glass electrode, K1=3.58
*******************************
               Thiomaltol
                        CAS 23060-85-7 (4359)
            HL
2-Methyl-3-hydroxy-4-thiopyrone;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w ? 75% U K1=12.74 B2=23.69 1973UMa (43910)2144
```

```
Medium: 75% v/v dioxan, 0.01 M
*************************
                Pyrogallol
                         CAS 87-66-1 (696)
1,2,3-Trihydroxybenzene; C6H3(OH)3
_____
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl NaClO4 30°C 0.10M M TIH
                                1986DNa (43943)2145
Zn++
                       K(Zn+HL)=8.41
                       K(Zn+2HL)=14.87
Data for 0.05-0.20 M NaClO4. Extrap. to I=0.0, K(Zn+HL)=8.94,
K(Zn+2HL)=15.89. Data for 30-50 C. DH(Zn+HL)=-8.49 kJ mol-1.
      gl NaClO4 30°C 0.20M U M
                                1974MJa (43944)2146
                       K(Zn(His)+L)=6.84
***********************
                         CAS 118-71-8 (2442)
                Maltol
3-Hydroxy-2-methyl-4H-pyran-4-one;
                   -----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp KCl 25°C 0.10M M I K1=5.72 1985PEe (44064)2147
  gl NaCl04 25°C 2.00M U H K1=5.56 B2=10.31 1978GHa (44065)2148
                       K3=2.25
DH(K1)=-10.91 \text{ kJ mol}-1, DH(K2)=-13.43, DH(K3)=-30.18
______
      gl NaNO3 25°C 2.00M C T H K1=5.36
                             B2=9.94 1975GDa (44066)2149
Zn++
                       K3=2.22
At 20 C, K1=5.40,K2=4.62,K3=2.33; 30 C: 5.34,4.57,2.19; 40 C:5.29,4.53,2.18;
DH(K1)=-9.2 kJ mol-1, DS=71.9 J K-1 mol-1; DH(K2)=-7.9,DS=60.6; DH(K3)=-12.1
Zn++ gl NaClO4 25°C 0.50M U K1=5.53 B2=10.20 1967CBb (44067)2150
-----
Zn++ gl diox/w 30°C 50% U K1=8.24 B2=14.84 1957CWa (44068)2151
******************************
             HL
               Allomaltol CAS 644-46-2 (2688)
5-Hydroxy-2-methyl-4H-pyran-4-one;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
-----
Zn++ sp KCl 25°C 0.10M M I K1=5.38 1985PEe (44124)2152
-----
   gl NaClO4 25°C 0.50M U K1=5.28 B2=9.57 1967CBb (44125)2153
Kojic acid
                         CAS 501-30-4 (1800)
C6H604
             HL
5-Hydroxy-2-(hydroxymethyl)-4H-pyran-4-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ sp KCl 25°C 0.10M M I K1=5.14 1985PEe (44170)2154
-----
Zn++ gl NaCl04 25°C 2.00M U H K1=5.01 B2=9.20 1978GHa (44171)2155
                        K3=2.58
DH(K1)=-8.69 \text{ kJ mol}-1, DH(K2)=-10.81, DH(K3)=-28.92
      gl NaClO4 25°C 2.00M C T H K1=5.03
                              B2=9.34 1975GHa (44172)2156
Zn++
                        B3=12.4
DH(K1)=-7.9 \text{ kJ mol-1}; DS(K1)=170.0 \text{ J K-1 mol-1}; DH(K2)=-6.3, DS(K2)=59.8.
At 20 C, K1=5.04, B2=9.3, B3=12.0; at 40 C, K1=4.95, B2=9.11, B3=11.75
______
Zn++ gl NaClO4 25°C 0.50M U K1=4.98 B2=8.95 1967CBb (44173)2157
______
Zn++ gl diox/w 30°C 75v% U K1=10.38 B2=18.96 1960KFc (44174)2158
-----
      EMF KCl 21°C 0.10M U K1=4.9 B2=9.1 19590Kb (44175)2159
Method: H electrode
-----
Zn++ gl diox/w 30°C 50% U K1=7.4 B2=13.2 1954BFa (44176)2160
(8129)
2,3-Dihydroxybenzenesulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C
                      M K1=9.00 B2=15.95 1989DAa (44270)2161
                        K(ZnA+L)=7.72
                        B(ZnAL)=15.26
H2A: 8-hydroxyquinoline-5-sulfonic acid.
**********************
                           CAS 7134-09-0 (3687)
             H3L
3,4-Dihydroxybenzenesulfonic acid; (HO)2.C6H3.SO3H
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 30°C 0.10M U K1=9.40 B2=16.60 1963MNc (44276)2162
C6H608S2
            H4L
                 Tiron
                          CAS 149-45-1 (104)
4,5-Dihydroxybenzene-1,3-disulfonic acid; (HO)2.C6H2(SO3H)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C M K1=8.62 B2=15.02 1989DAa (44376)2163
                        K(ZnA+L)=6.95
                        B(ZnAL)=14.45
H2A: 8-hydroxyquinoline-5-sulfonic acid.
      gl NaCl04 30°C 0.05M U TIH K1=10.07 B2=18.64 1986NDa (44377)2164
I=0.1, 40 C: K1= 9.83, B2=18.00; 50 C: K1= 9.61, B2=17.70
I=0.1, 30 C:K1= 9.94, B2=18.33; I=0.2, 30 C:K1= 9.66, B2=17.93
```

Zn++ By ultrafi			25°C	0.10M	U		K1=10.30		•	·
							K1=10.14 B2=18 B(ZnHL)=15.84 K(ZnH-1L2)=6.56 B(ZnL(bpy))=16.4 K(ZnH-1L(bpy))=	8.22 : 41 5.59	19830Za	(44379)2166
							K1=9.14 B2=1			
Zn++	gl	KC1	25°C	0.10M			K1=10.41 K(Zn+HL)=3.30	1964P	Ca (4438	81)2168
Zn++	gl	KNO3	30°C	0.10M	U		K1=10.19 B2=1	8.52	1963MNc	
Zn++	gl	NaClO4	25°C	1.0M	U		K1=9.00 B2=1	6 . 91	1960NAf	(44383)2176
Zn++	gl	oth/un	25°C	0.0	U		K1=11.68	1959N		
		KNO3			U		K1=11.07 K(ZnOHL+H)=8.0	1958C	Ga (4438	·
Zn++	gl		25°C	.029M	U I		K1=10.58 K(ZnLOH+H)=3.73	1958N		
Zn++	gl *****	oth/un *****	25°C ***** H4L	0.05M ***** Dita	U ***** artroi	***	K2=17.9 *************** ac (8108)	1958N/ *****	Aa (4438 *****	 37)2174 ******
Metal	Mtd	Medium	Temp	Conc (Cal F	lags	S Lg K values	Re ⁻	ference	ExptNo
Zn++				0.10M			K1=5.62 K(ZnL+H)=2.94		Mg (445)	
C6H7N 2-Methylpy			L	Pico			CAS 109-06			
Metal	Mtd	Medium	Temp	Conc (Cal F	lags	Lg K values	Re	ference	ExptNo
Zn++	gl						K1=0.22			
Zn++ Medium: Bu		non-aq	25°C	100%	U TII	Н	K(ZnA+L)=2.75		Fa (445)	
Zn++ Medium: to		-				 HM	K2=4.47	1980WI	3a (445)	78)2178

```
gl NaClO4 25°C 0.10M U M K1=<1
                                  1964KSb (44579)2179
Ternary complexes with dimethyldithiocarbamic acid, oxine, and substituted
*******************************
              L
                 beta-Picoline CAS 108-99-6 (324)
3-Methylpyridine; C5H4N.CH3
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.50M C K1=1.24 2002KSb (44656)2180
______
Zn++ cal non-aq 25°C 100% U H K1=4.6 B2=8.1 1994K0a (44657)2181
                         B3=10.6
                         B4=12.1
Medium: CH3CN. DH(K1)=-31.4, DH(B2)=-56, DH(B3)=-74, DH(B4)=-90 kJ mol-1.
_____
      cal non-aq 25°C 100% U H K1=1.16
                               B2=1.30 1993KOa (44658)2182
Medium: dimethylformamide, 0.1 M Et4NClO4. DH(K1)=-14.4, DH(B2)=-30.3 kJ m-1
______
Zn++ sp non-aq 25°C 100% U M
                                   1984MWa (44659)2183
                         K(ZnA+L)=4.35
In toluene, A=21H,23H-Porphine-5,10,15,20-Tetrakis(3-nitrophenyl)
Data also for many other Porphine analogues of A
______
     nmr non-ag 25°C 100% U HM
                                   1980WBa (44660)2184
                         K(ZnA+L)=4.08
Medium: toluene. DH(K2)=-44.0 kJ mol-1.
A=5-(2'-(2"-phenylethyl)carbamylamino)-10,15,20-tetraphenylporphyrin.
______
     nmr non-aq 25°C 100% U HM
                                   1980WBa (44661)2185
Zn++
                         K(ZnA+L)=3.95
Medium: toluene. A=5-(2'-Methylcarbonylamino)-10,15,20-tetraphenylporphyrin.
DH=-39 kJ mol-1.
_____
                        K1=1.00 B2=2.15 1978LRb (44662)2186
Zn++
    gl KNO3 25°C 0.50M U
                         B3=2.62
                         B4=3.73
------
     ISE NaClO4 30°C 0.10M U
                        K1=1.23 B2=1.91 1966DKa (44663)2187
                         B3=2.18
Zn++ gl NaCl04 25°C 0.10M U K1=<1 1964KSb (44664)2188
L gamma-Picoline CAS 108-89-4 (325)
4-Methylpyridine; C5H4N.CH3
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     cal non-aq 25°C 100% U H K1=3.9 B2=7.3 1994KOa (44770)2189
```

```
B3=10.3
```

```
B4=12.2
Medium: CH3CN. DH(K1)=-36, DH(B2)=-66, DH(B3)=-72, DH(B4)=-89 kJ mol-1.
______
Zn++ cal non-ag 25°C 100% U H K1=1.33 B2=1.57 1993K0a (44771)2190
Medium: dimethylformamide, 0.1 M Et4NClO4. DH(K1)=-14.4, DH(B2)=-30.3 kJ m-1
______
Zn++ sp non-aq 25°C 100% U M
                                   1993SSc (44772)2191
                         K(ZnA+L)=3.669
                         K(ZnB+L)=4.039
                         K(ZnC+L)=4.332
Medium:Toluene. H2A:Octaethylporphyrin. H2B:t-Octaethylchlorin.
H2C:ttt-Octaethylisobacteriochlorin.
                       K1=2.44 B2= 2.70 1987SPb (44773)2192
Zn++ vlt KCl 25°C 0.10M C
                        B3=4.60
Method: polarography.
______
Zn++ cal non-aq 30°C 100% U H
                                   1976AGc (44774)2193
                         K(ZnA2+L)=2.13
                         K(ZnB2+L)=2.46
In benzene. A=dibutyldithiocarbamate; DH=-35.8 kJ mol-1; DS=-77 J K-1 mol-1.
B=dibenzyldithiocarbamate; DH=-35.8; DS=-73.
______
      EMF KNO3 25°C 1.00M U K1=1.46 B2=2.45 1969LWc (44775)2194
Zn++
                        B3=2.72
-----
     gl diox/w 25°C 50% U M K1=1.42
                                   1967SIb (44776)2195
Zn++
                        K(Zn(bpy)+L)=1.2
Medium: 50% dioxan, 0.1 M NaClO4. Ternary complexes with dimethyldithiocarb-
amic acid, oxine and substituted oxines
______
      ISE NaClO4 30°C 0.10M U
                         K1=1.30 B2=2.11 1966DKa (44777)2196
                        B3=2.85
_____
Zn++ gl NaCl04 25°C 0.10M U K1=1.40 1964KSb (44778)2197
L Aniline CAS 62-53-3 (583)
Aminobenzene, aniline; C6H5.NH2
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ cal non-aq 25°C 100% C IH
                                   2002LVa (44855)2198
                         K(ZnP+L)=2.88
                         K(ZnPL+L)=2.16
Medium: CCl4. ZnP: Zn(II)tetraphenylporphyrine. DH(ZnP+L)=-27.25 kJ mol-1,
DS=-36 J K-1 mol-1; DH(ZnPL+L)=-25.05, DS=-43. Data for related ligands.
______
     sp diox/w 25°C 100% U T H
                                   1976BSa (44856)2199
```

K(ZnC12+L)=2.38

```
At 10-50 C. DH = -27.6 kJ mol-1; DS = -45.9 J K-1 mol-1.
*********************************
                 2-Aminophenol CAS 95-55-6 (2868)
2-Amino-1-hydroxybenzene; HO.C6H4.NH2
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
 -----
     gl NaClO4 25°C 0.20M M
                      M K1=4.945 B2= 8.86 1994VBc (44916)2200
Zn++
                        B(Zn(ala)L)=9.952
                        B(Zn(phe)L)=9.504
                        B(Zn(tyr)L)=9.771
                        B(Zn(trp)L)=9.994
B(Zn(gly-gly)L)=8.436, B(Zn(gly-ala)L)=8.446.
Zn++
      gl diox/w 30°C 50% U
                      Μ
                                 1990DSc (44917)2201
                        B(ZnL(NTA))=5.50
                        B(ZnL(IMDA))=5.72
Zn++ gl diox/w 25°C 50% U K1=5.99 B2=10.95 1952CFa (44918)2202
CAS 586-98-1 (3094)
2-Hydroxymethylpyridine (2-pyridylmethanol); C5H4N.CH2.OH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KNO3 25°C 0.10M U K1=1.9 1965MTa (44960)2203
Pyridylcarbinol CAS 100-55-0 (2036)
C6H7N0
3-(Hydroxymethyl)azine; C5H4N.CH2OH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=1.07 B2=1.72 1981LRa (44980)2204
*******************************
                          CAS 7295-76-3 (3095)
C6H7N0
3-Methoxypyridine; C5H4N.OCH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
      ISE NaCl04 30°C 0.10M U K1=0.90 B2=1.40 1966DKa (44990)2205
                       B3=1.54
*********************************
C6H7N0
                          CAS 586-95-8 (1476)
4-(Hydroxymethyl)pyridine; C5H4N.CH2OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Zn++ gl KNO3 25°C 0.50M U K1=1.18 B2=1.93 1987KLb (45003)2206
******************************
                           CAS 620-08-6 (3096)
C6H7N0
```

```
4-Methoxypyridine; C5H4N.OCH3
  -----
     Mtd Medium Temp Conc Cal Flags Lg K values
______
     ISE NaClO4 30°C 0.10M U
                      K1=1.53 B2=2.31 1966DKa (45014)2207
                      B3=3.08
**********************************
                         CAS 19365-01-6 (2311)
3-Hydroxy-1-methylpyridin-4(1H)-one;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     gl KNO3
           37°C 0.15M C
                    M
                                1980SHb (45038)2208
B(ZnL(gly))=11.06; B(ZnL(his))=12.59; B(ZnL(Hhis))=17.99.
      gl KNO3 37°C 0.15M C
                       K1=6.68 B2=12.31 1979SPd (45039)2209
                      K3 = 2.1
**********************************
                         CAS 19167-98-7 (5591)
Pyrrole-1-ethanoic acid;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl diox/w 25°C 50% C M K1=1.92
                                1985BSd (45054)2210
                       K(Zn(phen)+L)=1.85
Medium: 50% v/v dioxan/H2O, 0.1 M NaClO4
*********************************
                         CAS 3343-41-7 (3711)
C6H7N04S
            H2L
1-Hydroxy-1-(2'-pyridyl)methanesulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M U K1=5.08 B2=9.29 1964BGa (45075)2211
*******************************
C6H7NO4S
            H2L
                         CAS 4812-14-0 (3712)
1-Hydroxy-1-(3'-pyridyl)methanesulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaCl04 25°C 0.10M U K1=7.58 B2=14.29 1964BGa (45080)2212
**************************
                         CAS 137-07-5 (3098)
2-Aminothiophenol (o-aminothiophenol); H2N.C6H4.SH
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                Reference ExptNo
------
Zn++ gl diox/w 25°C 50% U K1=7.33 B2=14.10 1952FCa (45087)2213
******************************
                         CAS 1452-63-7 (3097)
Pyridine-2-carboxylic acid hydrazide; C5H4N.CO.NH.NH2
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 20°C 0.01M U K1=8.4 B2=15.6 1956ARd (45098)2214
Isonicotinic hy CAS 54-85-3 (1267)
Pyridine-4-carboxylic acid hydrazide; C5H4N.CO.NH.NH2
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 37°C 0.15M C M K1=5.6
                              1983CMa (45120)2215
                     B(ZnHL)=12.34
                     B(Zn(his)L)=11.35
                     B(ZnH(his)L)=18.83
______
Zn++ gl oth/un 20°C 0.01M U K1=5.4 1956ARd (45121)2216
*************************
C6H7N3O2I2
                         (7181)
2,5-Diiodo-histidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                     K1=3.97
Zn++ gl NaNO3 25°C 0.50M C
                             1994WCa (45137)2217
                     B(ZnH-1L)=-2.53
                     B(ZnH-1L2)=2.00
                     B(ZnH-2L2)=-4.72
                     B(ZnH-3L2)=-16.02
*********************************
                       CAS 701-64-4 (5866)
Phenyl phosphoric acid; C6H5O.PO(OH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaCl 25°C 0.15M U K1=2.146 1990KLb (45223)2218
Zn++ gl NaNO3 25°C 0.10M C K1=2.07 1988MSa (45224)2219
*************************
C6H8N04P
           H2L
                         (3713)
2-Pyridylmethanephosphoric acid (1'-picolyl phosphate)
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=2.83 1968MTd (45244)2220
2-Picolylamine CAS 29722-36-9 (502)
            L
2-(Aminomethyl)pyridine; C5H4N.CH2NH2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     cal NaCl 25°C 0.15M C H K1=5.295 B2=9.640 1987ENa (45326)2221
```

```
B3=12.36
                          B(ZnH-2L)=-13.57
                          B(ZnH-1L2)=-0.32
DH(K1)=-25.8 \text{ kJ mol-1}, DS=15 \text{ J K-1 mol-1}; DH(B2)=-51.9, DS=11; DH(B3)=-84,
DS=-43; DH(ZnH-2L)=85, DS=24; DH(ZnH-1L2)=24, DS=-37
      EMF NaNO3 20°C 0.10M U
                          K1=5.36 B2=9.60 1971ANa (45327)2222
Zn++
                         K3=2.99
     gl KNO3 25°C 0.50M U K1=5.37 B2=9.84 1971GEa (45328)2223
K3=2.80
      vlt diox/w 25°C 50% U H B2=9.84 1966WRb (45329)2224
Medium: 50% dioxan, 0.1 M KNO3. By calorimetry, DH(B2)=-51.8 kJ mol-1,
DS=13.8 J K-1 mol-1
-----
Zn++ gl KNO3 25°C 0.10M U K1=5.2 1964LMb (45330)2225
______
Zn++ gl KNO3 25°C 0.10M U K1=5.2 1964LMb (45331)2226
______
Zn++ gl oth/un 20°C ->0 U T H K1=5.41 B2=9.85 1959GFa (45332)2227
                          K3=8.12
DH(K1)=-28.5 \text{ kJ mol}-1,DS=4; DH(K2)=-30.5,DS=21; DH(K3)=-24.5,DS=21
10 C: K1=5.53,K2=4.61,K3=3.29; 30 C: 5.17,4.21,3.07; 40 C: 5.04,4.09,2.83
**********************************
                             CAS 2851-95-8 (4349)
2-Methyl-1-vinylimidazole;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.50M C
                          K1=1.55 B2= 3.60 2000KGa (45372)2228
                          B3=5.50
                          B4=6.50
******************************
C6H8N2O2
                            CAS 1074-59-5 (3099)
3-(4-Imidazolyl)propanoic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KNO3 25°C 0.20M U K1=3.15 1963CCb (45392)2229
*****************************
C6H8N2O3S
                             CAS 20349-92-2 (4399)
d-Tetranorbiotin;
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U
                        K1=1.92
                                     1969SMc (45404)2230
                          K(ZnL+bpy)=1.87
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
```

```
C6H8N2O4
             H2L
                             (3100)
Cyanomethyliminodiethanoic acid; NC.CH2.N(CH2.COOH)2
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 20°C 0.10M U K1=5.80 B2=9.51 1955SAa (45411)2231
***********************************
                           CAS 22325-27-5 (8521)
4,6-Dimethyl-2-mercaptopyrimidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 35°C 0.10M C
                       M K1=4.35
                                   1996RRa (45425)2232
                         B(ZnAL)=7.84
                         B(ZnBL)=7.71
                         B(Zn(bpy)L)=8.84
                         B(Zn(phen)L)=10.63
B(Zn(en)L)=8.55. H2A is oxalic acid, H2B is malonic acid.
********************************
C6H8N3O2I
              HL
                             (7180)
5-Monoiodo-histidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaNO3 25°C 0.50M C
                         K1=5.22 B2=9.55
Zn++
                                     1994WCa (45430)2233
                         B(ZnH-1L2)=1.05
                         B(ZnH-2L2)=-9.14
*********************************
                             (7237)
Bis(pyrazol-1-yl)borate; (C3H3N2)2BH2-
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ dis non-aq 25°C 100% U
                                   1996KSa (45436)2234
                        K(Zn+2HL=ZnL2(org)+2H)=1.15
By solvent extraction into CHCl3
**********************************
C6H8N402S
                            CAS 42026-60-8 (8288)
6-Amino-3-methyl-2-(methylthio)-5-nitroso-4(3H)-pyrimidinone;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
      gl KCl 25°C 0.1M U IH K1=5.54 B2=11.04 1984MMh (45440)2235
Data for I=0.01-0.20 M and 25-40 C. At I=0.0 M, K1=6.41, K2=5.95.
DH(K1)=-15.7 \text{ kJ mol-1}, DS(K1)=59.7 \text{ J K-1 mol-1}; DH(K2)=-10.3, DS(K2)=72.2
***************************
                           CAS 765-70-8 (8322)
3-Methylcyclopentane-1,2-dione;
-----
      Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
```

```
5% U
Zn++
      gl alc/w 30°C
                                   1995RRb (45449)2236
                         K(ZnA+L)=7.21
                         B(ZnAL)=15.07
Medium: 5% v/v EtOH/H2O, 0.10 M KNO3. H2A is thioglycolic acid.
      gl KNO3
             30°C 0.10M U
Zn++
                      HM
                          K1=4.38
                                B2= 8.23 1994RSa (45450)2237
                         B(Zn(ala)L)=8.92
                         B(Zn(val)L)=8.63
                         B(Zn(en)L)=9.82
                         B(Zn(bpy)L)=9.28
DH(K1)=-18.7 kJ mol-1, DS=22.1 J K-1 mol-1. B(ZnAL)=9.09, B(ZnBL)=12.14,
K(Zn(bpy)+L)=4.02, K(ZnA+L)=3.75. H2A=oxalic acid, H2B=catechol.
*******************************
C6H804
             H2L
                            CAS 2583-25-7 (958)
2-Allylpropanedioic acid; HOOC.CH(CH2.CH:CH2).COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
______
            25°C 0.10M C K1=2.45 1975IPa (45460)2238
      gl KNO3
***********************************
                            CAS 5445-51-2 (69)
C6H804
             H2L
Cyclobutane-1,1-dicarboxylic acid; C4H6(COOH)2
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl KNO3 25°C 0.10M U
                         K1=2.53 B2=4.01 1969PJb (45498)2239
<del>-</del>
Zn++ gl NaClO4 25°C 0.10M U K1=2.48
                                   19660Cb (45499)2240
*******************************
C6H804Se
                             (3691)
cis-Tetrahydroselenophene-2,5-dicarboxylic acid; C4H6Se(COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl NaClO4 25°C 0.10M U
                       K1=2.4
                                  1968SNa (45526)2241
**********************************
                 Tricarballylic CAS 99-14-9 (1620)
C6H806
             H3L
1,2,3-Propanetricarboxylic acid; HOOC.CH2.CH(COOH).CH2.COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaClO4 20°C 0.10M U
                         K1=2.43
Zn++
                                   1964C0b (45552)2242
                         K(Zn+HL)=1.61
                         K(Zn+H2L)=0.94
********************************
                  Ascorbic acid CAS 50-81-7 (285)
Ascorbic acid (Vitamin C);
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
Metal
```

```
gl NaClO4 20°C 1.00M M M
                                 1985MOa (45608)2243
                B(ZnHLTartrate)=7.19
______
Zn++ EMF NaClO4 20°C 1.00M U K1=4.34 B2=7.50 1981MOc (45609)2244
Ascorbic acid treated as HL. Antimony electrode used
______
Zn++ gl mixed 25°C 80% U
                                 1980KKd (45610)2245
                       K(Zn+HL)=2.2
Medium: 80% DMF
*********************************
                          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
-----
Zn++ gl KNO3 20°C 0.10M U K1=3.19 1977CAd (45680)2246
                      K(Zn+HL)=2.42
` .
-----
Zn++ gl KNO3 25°C 0.05M M K1=3.50 1975DPb (45681)2247
***************************
            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
-----
Zn++ gl KCl 37°C 0.15M C
                        K1=4.55 B2=6.87 1991CCa (45899)2248
                        B(ZnHL)=8.41
                        B(ZnHL2)=12.03
                        B(ZnH-1L)=-1.92
______
Zn++ gl KNO3 25°C 0.10M U T H
                        K1=5.02 B2=6.76 1986CRd (45900)2249
                        B(ZnHL)=8.71
                        B(Zn2H-2L2)=-2.85
At 10 C: K1=4.99, B2=6.85, B(ZnHL)=8.73, B(Zn2H-1L2)=-3.18; at 45 C:K1=5.23,
B2=7.60, B(ZnHL)=8.83, B(Zn2H-1L2)=-1.7. DH(K1)=8 kJ mol-1; DH(B2)=27
-----
Zn++ gl NaClO4 30°C 0.10M U K1=4.79 1981MSa (45901)2250
     ______
Zn++ gl NaClO4 37°C 0.15M C M K1=4.72 B2=7.36 1978BMa (45902)2251
                        B(ZnHL)=8.44
                        B(Zn2H-2L2)=-2.21
                        B(ZnLA)=12.36
                        B(ZnH2LA)=24.0
H2A=cysteine
Zn++ gl KNO3 25°C 0.10M U M K1=4.83
                              1978D0a (45903)2252
                        B(ZnHL)=8.43
B(ZnL(bpy))=9.61
```

Zn++	gl	KNO3	25°C	0.10M	С		K1=4.83 B(ZnHL)=8.43 B(Zn2H-2L2)=-2.9		(45904)2253
Zn++	gl	NaClO4	37°C	0.15M	C		K1=5.58 B(ZnH-1L)=-0.19	1977RWc	(45905)2254
Zn++	gl	KNO3	25°C	0.10M	C		K1=5.10 B(ZnHL)=8.98	1975FCc	(45906)2255
Zn++	gl	NaClO4	25°C	0.10M	U	M	K1=4.87	1974RMa	(45907)2256
Zn++ 35Cl probe		oth/un	32°C	0.50M	U		K(Zn+HL)=2.42	1973HAb	(45908)2257
Zn++ Method: zo				 0.70M is	U		K(Zn+H3L=ZnH2L+I K(ZnH2L=ZnL+2H):	H)=-1.38	(45909)2258
Zn++					 U		K1=4.98 K(Zn+HL)=2.98 K(Zn+H2L)=1.25	1964C0b	(45910)2259
Zn++	gl	NaC104	33°C	0.25M	U		K(Zn+H3L=ZnHL+2 K(ZnL+H)=4.3 K(ZnH-1L+H)=7.7		(45911)2260
Zn++	ix	oth/un	25°C	0.16M	U		K1=4.71	1960LWa	(45912)2261
		oth/un					B(Zn(OH)L)=10.9	2	(45913)2262
Zn++	gl		25°C	0.15M	U		K1=4.85 K(Zn+HL)=2.96	1959LLa	(45914)2263
Zn++	oth	KC1	19°C	0.10M	U		K1=4.6 K(Zn+HL)=3.0 K(Zn+H-1L)=7.5	19590Ka	(45915)2264
Zn++	gl	KNO3	25°C	2.0M	U		K1=4.25 K(Zn+H-1L)=7.44	1958MSb	(45916)2265
							K1=4.71	1958SLb	(45917)2266
Zn++	ix	oth/un	?	?			K1=3.55		(45918)2267
Zn++	sol	oth/un	?	?			·		(45919)2268

```
Zn(Zn(OH)2+L=ZnOHL+OH)=9.4
      oth oth/un 25°C 0.05M U
                                    1952SUc (45920)2269
                         K(Zn+H3L=ZnHL+2H)=-3.66
      vlt oth/un 25°C 0.30M U
                                    1951MEa (45921)2270
                         K(ZnL+OH)=5.5
Medium: Na3C6H5O7
______
     vlt oth/un 25°C 0.20M U
                                    1950MEb (45922)2271
                         K(ZnL+OH)=5.5
********************************
                            CAS 101378-64-7 (7666)
C6H807P2
Phenyldiphosphoric acid;
     Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.10M M K1=4.06 1999SSa (46340)2272
C6H9N06
             H3L
                            CAS 41035-84-1 (4367)
N-Carboxymethyl-L-aspartic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 25°C 0.10M U H
                          K1=8.60 B2=11.65 2002KNb (46370)2273
                         B(ZnHL)=12.77
for I=1.0 M: K1=7.49; B2=10.03; B(ZnHL)=12.40
Also data for I=0.5 M
*********************************
             H3L NTA
C6H9N06
                            CAS 139-13-9 (191)
Nitrilotriethanoic acid; N(CH2.COOH)3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl NaNO3 25°C 0.10M M K1=10.05
______
Zn++ cal KNO3 25°C 1.00M U H
                                    1995V0a (46559)2275
DH(K1)=-6.4 kJ mol-1, DS=170 J K-1 mol-1; DH(B2)=-20.8, DS=198
-----
      oth NaClO4 30°C 0.10M C K1=10.66
                                   1991TSc (46560)2276
Method: electrophoresis. Medium: pH 5.8.
Zn++
    gl KNO3 25°C 0.10M C M K1=10.66
                                    1990DAb (46561)2277
                         K(ZnL+A)=3.58
                         B(ZnLA)=12.00
H2A: salicylaldoxime
      gl KNO3 25°C 0.10M C
                                   1990DAc (46562)2278
Zn++
                      M K1=10.66
                         K(ZnL+A)=3.47
```

B(ZnAL)=14.13

```
HL: benzohydroxamic acid
------
     ISE KCl 25°C 1.0M U K1=9.30
                                 1990TKa (46563)2279
The same measured by polarography: K1=9.38
Zn++ vlt KCl 25°C 1.0M U
                                 1990TKa (46564)2280
                       K(ZnL+L)=3.18
-----
     oth NaCl04 35°C 0.10M C K1=10.59 1986SYa (46565)2281
Method: paper electrophoresis. Medium pH 8.5.
______
Zn++ oth NaClO4 35°C 0.10M C M K1=10.59 1985SGc (46566)2282
                        K(ZnL+his)=3.94
Method: paper electrophoresis. Medium pH 8.5.
------
Zn++ oth NaCl04 35°C 0.10M U K1=10.59 1984SYa (46567)2283
Method: paper electrophoresis
______
Zn++ gl NaClO4 25°C 1.0M U
                                 1982BCb (46568)2284
                        *K(ZnL(H2O))=-9.18
-----
Zn++ gl NaNO3 25°C 0.10M C M 1981BKb (46569)2285
                        K(ZnL+py)=1.22
                        K(ZnL+A)=2.73
                        K(ZnL+NH3)=2.3
                        K(ZnL+CH3COO)<0.3
A=1,3-diazole. K(ZnL+HB)=0.6, H3B=H3P04
Zn++ gl KNO3 35°C 2.0M C K1=6.55 B2=11.59 1981GMg (46570)2286
______
Zn++ gl KNO3 25°C 0.10M U T M
                                 1981SVa (46571)2287
                        K(ZnL+Gly)=3.78
At 20 C: K(ZnL+Gly)=3.84; 30 C: 3.72; 40 C: 3.59
______
Zn++ gl NaClO4 25°C 0.10M U M K1=10.31 1974RMa (46572)2288
______
Zn++ gl NaClO4 25°C 0.10M U M
                                 1974RMb (46573)2289
                        K(Zn+HL)=3.45
                        K(Zn+HPO4)=2.40
                        K(ZnHL+HPO4)=8.10
                        K(Zn+HL+HPO4)=11.55
______
                       1974RMb (46574)2290
Zn++ gl NaClO4 25°C 0.10M U
                        K(Zn+HL)=3.45
                        K(ZnHL+Fulvate)=4.35
                        K(Zn+HL+Fulvate)=7.80
                       1973RBb (46575)2291
Zn++ nmr oth/un 25°C 0.40M U
                        K(ZnL+en)=5.00
                        K(ZnL+Gly)=3.62
```

```
K(ZnL+B)=1.34
H2A=iminodiethanoic acid, H2B=malonic acid. K(ZnL+OH)=4.01
______
Zn++ gl NaClO4 35°C 0.20M U
                                            1972PBe (46576)2292
                                K(ZnL+A)=5.17
                                K(ZnL+B)=5.21
                                K(ZnL+C)=5.13
H2A=thioglycollic acid, H2B=thiolactic acid, H3C=thiomalic acid
Zn++ gl KNO3 25°C 0.10M U T M
                                            1971ICa (46577)2293
                                K(ZnL+Pro)=3.98
                                K(ZnL+Gly)=3.59
15 C, K(ZnL+Pro)=4.14. 70 C, K=3.38
    gl KNO3 25°C 0.10M U T M
                                            1971ICb (46578)2294
                                K(ZnL+A)=3.19
HA=piperidine-2-carboxylic acid. 15 C, K(ZnL+A)=3.32. 70 C, K=2.82
Zn++ gl KNO3
                 25°C 0.10M U T M
                                            1971ICc (46579)2295
                                K(Zn(OH)L+H)=10.06
                                K(ZnL+A)=3.28
HA=1-aminopentanecarboxylic acid.
K(ZnL(OH)+H)(15 C)=10.47, (70 C)=9.02; K(ZnL+A)(15 C)=3.33, (70 C)=2.80
______
Zn++ gl KNO3 25°C 0.10M U T M
                                            1971IVb (46580)2296
                                K(ZnL+Sar)=3.22
                                K(ZnL+A)=3.28
HA=dimethylglycine. 15 C, K(ZnL+Sar)=3.34, K(ZnL+A)=3.41.
70 C, K(ZnL+Sar)=2.75, K(ZnL+A)=2.76
Zn++ gl KNO3 25°C 0.10M U M
                                            1971TSh (46581)2297
                                K(ZnL+Ala)=3.36
                                K(ZnL+Gly)=3.76
-----
Zn++ gl oth/un 25°C 1.50M U M K1=10.45 1970FDa (46582)2298
                                B(ZnL(NH3))=12.78
                                B(ZnL(py))=11.21
                                B(ZnL(NH3)(py))=13.21
                                B(ZnL(NH3)A)=13.16
A=thiourea. B(ZnL(NH3)(SCN))=13.05. B(ZnL(SCN)2)=12.14.
B(ZnL(NH3)(S2O3))=13.85. B(ZnL(S2O3)2)=13.69
Zn++ gl KNO3 25°C 0.10M U
                                            1970STd (46583)2299
                                K(ZnL+A)=4.23
                                K(ZnL+B)=7.07
H3A=sulphosalicylic acid. H4B=tiron
______
Zn++ gl NaClO4 25°C 0.10M U M
                                            1969AIa (46584)2300
                                K(ZnL+Trp)=3.02
```

K(ZnL+A)=3.61

Zn++	gl	NaClO4	25°C	0.10M	U	М	<pre>K(ZnL+histamine) K(ZnL(histamine)</pre>)=3.61)+H)=8.	41	35)2301
Zn++							K1=10.0 B2=13	3.50 1		(46586)2302
Zn++						M	K(ZnL+OH)=3.55 K(ZnL+Gly)=3.64 K(ZnL+A)=1.58			37)2303
A=ethylval	inat	e								
Zn++	gl	KNO3	25°C	0.08M	U					38)2304
A=ethylval	inat	e								
Zn++	J	NaC104								39)2305
Zn++ A=glycylgl	gl	NaClO4				M	K(ZnL+A)=2.28 K(ZnLA=ZnLA(OH)+ K(ZnL=ZnL(OH)+H)	-H)=-10	.20	90)2306
Zn++							K(ZnL+Asp)=3.24 K(ZnL+Glu)=2.96		·	91)2307
Zn++	gl	NaC1	25°C	1.0M	U		K1=9.18	1966CW	a (4659	92)2308
					U		K1=10.44	1966IM	b (4659	93)2309
Zn++ DH(K1)=-3.	5 kJ	mol-1,	DS=19	92.3 J	U K-1	H mol		1964HD	a (4659	94)2310
Zn++	vlt		20°C	0.10M	U		T K1=10.66	1956SG	a (4659	95)2311
Zn++	vlt	KCl	20°C	0.10M	U	-	T K1=10.67	1955SA	a (4659	96)2312
					U		K1=10.45			
Zn++		KCl	20°C	0.20M	U		K1=10.35	1950KK	a (4659	98)2314
		KCl	20°C	0.10M			K1=>10 K2=3. K(ZnLOH+H)=10	0 1	948SBa	(46599)2315

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******************************
C6H9N3O2
              HL
                 Histidine
                           CAS 71-00-1 (1)
2-Amino-3-(4'-imidazolyl)propanoic acid; H2N.CH(CH2.C3H3N2)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C M K1=6.40
                                  1999AAa (47399)2316
                         K(ZnL+A)=4.08
                         B(ZnLA)=10.48
                         K(ZnL+B)=4.15
                         B(ZnLB)=10.55
K(ZnHL+C)=2.13, K(ZnL+D)=4.23, B(ZnLD)=10.23.
HA=MOPSO, HB=MOPS HC=DIPSO, HD=TAPSO.
                      ___________
Zn++ vlt NaCl04 25°C 1.0M C M K1=6.53 B2=12.40 1997KKb (47400)2317
                         B3=14.32
                         B(ZnAL)=6.69
                         B(ZnA2L)=12.20
                         B(ZnAL2)=14.51
Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50.
 -----
    gl NaClO4 25°C 0.20M M K1=6.514 B2=12.01 1994VBb (47401)2318
Zn++
                        B(ZnHL)=11.623
______
Zn++ gl NaNO3 25°C 0.50M C
                        K1=6.48 B2=11.92 1994WCa (47402)2319
                         B(ZnH-1L2)=1.97
                         B(ZnH-2L2)=-8.84
______
Zn++ gl KNO3 25°C 0.10M M K1=6.62 B2=12.03 1993GVa (47403)2320
______
     nmr oth/un 21°C var U M K1=6.90 B2=12.20 1992DHa (47404)2321
Zn++
                         *K(ZnL2)=-11.15
                         *K(ZnH-1L2)=-11.80
                         K(ZnL2+en)=1.85
                         K(ZnL2+pn)=1.78
Medium: D20. pD=pH+0.40. K(ZnL2+Gly)=1.30, K(ZnH-1L2+en)=1.48, K(ZnH-1L2+pn)
=1.30, K(ZnH-1L2+Gly)=1.30, K(ZnL2+Hen)=0.70, K(ZnL2+Hpn)=0.78.
______
    gl KNO3 25°C 0.10M U K1=6.61 B2=11.47 1992LPc (47405)2322
______
   gl NaClO4 25°C 0.20M U K1=6.51 B2=12.00 1992VBa (47406)2323
______
Zn++ gl NaCl 37°C 0.15M U M
                                   1991HWa (47407)2324
                         B(ZnLA)=10.215
                         B(ZnH-1LA)=1.796
                         B(ZnH2LA)=21.609
H2A is 7-oxabicyclo-[2,2,1]-hept-5-ene-2,3-dicarboxylic acid
______
     gl KNO3 35°C 0.10M U M K1=6.35
                                   1991RSb (47408)2325
Zn++
                         B(Zn(Cys)L)=18.50
```

```
K1=6.17 B2=11.65 1990BFb (47409)2326
Zn++ gl NaCl 25°C 1.0M C
                         B(ZnHL)=11.58
                         B(ZnHL2)=17.73
                         B(ZnH2L2)=22.60
                         B(ZnH2L)=15.10
Method: measurement by glass and Zn/Hg electrodes.
______
Zn++ gl KNO3 35°C 0.10M U M K1=6.70 1989RSb (47410)2327
                         B(ZnL(thiodipropanoate))=17.63
                         K(Zn(TDPA)+L)=6.47
______
Zn++ gl KNO3 35°C 0.20M U M K1=6.34 1989RVa (47411)2328
                        K(ZnA+L)=5.57
A=bis(imidazol-2-yl)methane
______
Zn++ dis oth/un 25°C 0.00 U K1=8.19 1987WCa (47412)2329
______
Zn++ gl NaCl 37°C 0.15M U K1=6.26 B2=11.45 1985CFb (47413)2330
                        B(ZnHL)=10.38
                        B(ZnHL2)=16.67
-----
Zn++ gl KNO3 35°C 0.10M C M K1=6.35 1985RRc (47414)2331
                     B(ZnL(cytidine))=11.95
-----
Zn++ gl KNO3 35°C 0.10M C K1=6.35 1985RRh (47415)2332
______
Zn++ oth NaCl04 35°C 0.10M C K1=6.42 B2=11.42 1985SGc (47416)2333
Method: paper electrophoresis. Medium pH 8.5.
______
Zn++ cal KNO3 25°C 0.10M C H
                                  1984ACb (47417)2334
DH(K1)=-20.1 kJ mol-1, DS=57.3 J K-1 mol-1; DH(B2)=-45.6, DS=75.2;
DH(ZnHL) = -47.6, DS = 63.
Zn++ gl KCl 25°C 0.20M C M
                                  1984KDb (47418)2335
                         K(Zn(DOPA)+L)=5.83
                         B(ZnHL(DOPA))=26.06
                         K(Zn(Dopamine)+L)=6.13
                         B(ZnHL(Dopamine))=26.34
K(ZnA+L)=6.01, B(ZnHLA)=25.13; K(ZnB+L)=6.07, B(ZnHLB)=25.82
A=Noradrenaline, B=Adrenaline
______
      gl KCl 25°C 0.10M C TIH R K1=6.51 B2=12.01 1984PEa (47419)2336
IUPAC evaluation. DH(B2)=-47.8 kJ mol-1
37 C and 0.15 mol dm-3: K1(tentative)=6.34, B2=11.69
______
Zn++ gl KNO3 35°C 0.10M C M K1=6.89 1983KSc (47420)2337
                         K(Zn+HA+L)=10.56
                         K(Zn+HB+L)=10.38
A is adenine; HB is cytosine.
```

 Zn++	gl	NaNO3	37°C	0.15M	U		K1=6.051 1982ESa (47421)2338 B(ZnHL)=11.821
							B(ZnHL2)=17.991
Zn++	gl	NaNO3	37°C	0.15M	U	M	1982ESa (47422)2339 B(ZnH2L(pyridoxamine))=28.494 B(ZnH3L(pyridoxamine))=35.812 B(ZnH4L(pyridoxamin))=42.00 B(ZnH3L2(pyridoxamine))=41.99
B(ZnH4L2(p	yrid	loxamine))=48. 	404 			
Zn++	gl	NaCl	37°C	0.15M	U		K1=6.30 B2=11.45 1982HFa (47423)2340 B(ZnHL)=10.38 B(ZnHL2)=16.67
Zn++ H2A is cys	C	NaClO4	37°C	0.15M	С	M	K1=6.336 B2=11.60 1981ABe (47424)2341 B(ZnHL)=10.718 B(ZnHL2)=16.919 B(ZnAL)=15.090 B(ZnHAL)=21.233
Zn++ 	gl 	NaCl	37°C	0.15M 			K1=6.287 B2=11.43 1981CMc (47425)2342
Zn++	_		25°C	0.10M	U		K1=6.69 B2=12.06 1980DMa (47426)2343
			25°C	0.10M	С		K1=6.53 B2=11.92 1979ADa (47427)2344
Zn++	gl	KNO3	25°C	0.10M	C	M	T 1978DOc (47428)2345 B(ZnLA)=11.57 B(ZnHLA)=17.67
A=Imidazol	.e-5-	ethylam	ine				
Zn++	gl	KN03	30°C	0.10M	М		K1=6.67 B2=11.78 1978MSi (47429)2346
Zn++	gl	KC1	25°C	0.20M	U	M	K1=6.31 B2=11.84 1978SKa (47430)2347 B(ZnHL)=11.37 B(ZnHL2)=17.55 B(ZnL(Gly))=10.89 B(ZnL(en))=11.65
Zn++	gl	KN03	25°C	0.10M	C		K1=6.53 B2=11.92 1977D0b (47431)2348
Zn++	gl	KNO3	25°C	 0.10M	С		T K1=6.48 B2=12.08 1976PSb (47432)2349 B(ZnHL)=11.42 B(ZnHL2)=17.89 B(ZnH2L2)=23.56
Zn++	gl	KNO3	25°C	0.10M	С		K1=6.49 B2=12.07 1976PSb (47433)2350

B(ZnHL)=11.41 B(ZnHL2)=17.87 B(ZnH2L2)=23.53

Ligand: D-	His					B(ZnH2L2)=	23.53		
Zn++	gl	KC1	25°C	 0.10M	С	K(Zn(DL-Hi			(47434)2351
						K1=6.22 K(Zn+HL)=2		1975APb	(47435)2352
	gl	none	21°C		М				(47436)2353
Zn++	cal '.72	KNO3 kJ mol-	25°C 1, Fo	r D-H	C H is: DH=-	47.81, for	1971	BPi (4743	
	gl .ne:	KCl K1=6.53	25°C , K2=5	0.10M	U	K1=6.56			(47438)2355
				 3.00M					(47439)2356
Zn++	gl	KNO3	25°C(0.10M	U M	K1=6.49 B(ZnL(CN)) B(ZnL(CN)2 B(ZnL(CN)3	=11.76 2)=16.71	1969MBa	(47440)2357
	_					K1=6.91 5.64, K2(40		1969RMb	(47441)2358
						K1=6.34			(47442)2359
	cal	KN03	21°C	0.10M	U H	L		SS1 (4744	43)2360
Zn++	EMF	oth/un					B2=12.53	1966PAa	(47444)2361
K1=7.00(0	C),6	.78(15	40°C C),6.4	0.25M 0(25	U T H C); K2=5	K1=6.52 5.96(0 C),5. kJ mol-1, DH	B2=11.59 55(15 C),5	1965AZa .02(25 C)	(47445)2362
Zn++ DH(ZnA+L=A							1965	AZa (4744 thyl este	,
Zn++	gl	KNO3	25°C	 0.20M	U	K1=6.57	1963	CCb (474	47)2364
Zn++ 0 C, K1=7.	_						B2=12.20	1961SMa	(47448)2365
Zn++	gl	oth/un	25°C	 0.01M	U	K1=6.63	B2=12.26	1959LRa	(47449)2366

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Zn++ oth oth/un ? ? U K1=11.2 1959MHa (47450)2367
Zn++ gl KNO3 25°C 0.15M U K1=6.67 B2=11.78 1955LMa (47451)2368
Zn++ gl oth/un 20°C 0.00 U B2=12.0 1953PEa (47452)2369
Medium: 0.0025 ZnSO4
-----
Zn++ gl oth/un 20°C 0.01M U B2=12.0 1952ALa (47453)2370
Zn++ gl oth/un 25°C 0.01M U B2=12.88 1950MMa (47454)2371
**********************************
                Thiolhistidine CAS 13552-61-9 (5659)
C6H9N302S
            H2L
1-Amino-2-(2-Mercaptoimidazole)-propionic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M U K1=9.16 B2=17.20 1982TSb (47636)2372
*********************
           L Metronidazole CAS 443-48-1 (1432)
C6H9N3O3
2-Methyl-5-nitro-H-imidazole-1-ethanol; C3HN2(NO2)(CH3).CH2.CH2.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=0.53 1983LWa (47646)2373
*************************
                          CAS 4408-72-4 (7015)
C6H906P
Phosphinotriethanoic acid; P(CH2.COOH)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaClO4 25°C 0.10M U K1=2.50
                              1979POa (47655)2374
Also data for 50% v/v dioxan/H20
************************************
C6H10N2
                         CAS 35203-44-2 (2054)
1-Propylimidazole; C3H3N2.CH2.CH2.CH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U
                       K1=2.62 B2=4.68 1979LBa (47677)2375
                        B3=7.25
                        B4=9.19
                        B5=9.99
*********************************
                          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
______
Zn++ gl KNO3 25°C 0.50M U K1=1.30 B2=2.00 1982LKb (47681)2376
```

```
**********************************
               cyclo-(Cys-Cys) CAS 76392-90-0 (7985)
           H2L
cvclo-(Cvsteinvl-cvsteinvl);
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
   gl NaClO4 25°C 0.10M M
                              2001GVa (47706)2377
                     B3=23.42
**********************************
                        CAS 32514-11-7 (4318)
C6H10N2O3
dl-Tetranordethiobiotin;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 25°C 50% U M K1=2.19 1969SMc (47709)2378
                     K(ZnA+bpy)=2.01
**************************
C6H10N2O4
                         (3104)
Piperazine-2,6-dicarboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 22°C 0.10M U K1=5.7 B2=9.8
                                 1964PCa (47731)2379
*************************
C6H10N2O4
                        CAS 89601-09-2 (3102)
trans-Piperazine-2,3-dicarboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 22°C 0.10M U K1=6.7 B2=10.4 1964PCa (47742)2380
*******************************
               Gly-Asp CAS 4685-12-5 (282)
Glycyl-aspartic acid; H2N.CH2.CO.NH.CH(CH2.COOH).COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                      K1=3.96 B2=6.64
    gl KNO3 25°C 0.10M C
                                 1995KLa (47776)2381
                     B(ZnH-2L)=-13.48
*********************************
           H2L
               ADA
                        CAS 26239-55-4 (2747)
N-(2-Acetamido)iminodiethanoic acid; H2N.CO.CH2.N(CH2.COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
___________
    gl KNO3 25°C 0.10M C M K1=6.85
                              2003AHa (47810)2382
                      K(ZnL+A)=3.75
HA is 3-amino-5-mercapto-1,2,4-triazole.
______
```

Zn++	gl	NaNO3	25°C	0.10M C		K1=7.50	2000KHb (47811)2383
Zn++ Data for t							1996AEa (47812)2384
Zn++			25°C	0.10M M		K1=9.73	1996KSc (47813)2385
			25°C	0.10M C		K1=6.85	1989MAd (47814)2386
Zn++	gl	KNO3	25°C	0.10M C		K1=7.10 *K(ZnL2)=- *K(ZnH-1L2	
Zn++	gl	KNO3				K(ZnL2=ZnH K(ZnH-1L2=	B2=9.22 1981LRb (47816)2388 -1L2+H)=-9.49 ZnH-2L2+H)=-10.56
Zn++			25°C			K1=7.10	1979NAb (47817)2389
Zn++	gl	KC1	20°C				B2=9.54 1955SAa (47818)2390
C6H10N2O6P	2		H4L			(68)	
Metal	Mtd	Medium	Temp	Conc Ca	l Flags	Lg K valu	es Reference ExptNo
						K(Zn+HL)=9 K(Zn+H2L)=	5.25
******** C6H10N4	·****	*****	***** L	******* Metraz	****** zole	K(Zn+HL)=9 K(Zn+H2L)= ******* CAS 5	.10
**************************************	**** nethy: Mtd	******* lenetet Medium	***** L razole Temp	******** Metraz e, 6,7,8, Conc Cal	****** zole ,9-Tetr L Flags	K(Zn+HL)=9 K(Zn+H2L)= ********* CAS 5- ahydro-5H- Lg K valu	.10 5.25 **********************************
******** C6H10N4 1,5-Pentam Metal Zn++ ************	***** methy Mtd EMF ****	******* lenetet Medium KNO3 *****	****** L razole Temp 25°C *****	******** Metraz e, 6,7,8, Conc Cal 0.50M U *******	****** zole ,9-Tetr L Flags 	K(Zn+HL)=9 K(Zn+H2L)= ******** CAS 5 ahydro-5H Lg K valu K1=1.0 *********	.10 5.25 **********************************
******** C6H10N4 1,5-Pentam Metal Zn++ ************	methy: Mtd EMF: ****	******* lenetet Medium KNO3 *****	****** L razole Temp 25°C ***** L tetraa	********* Metraz 6,7,8, Conc Cal 0.50M U *******	****** zole ,9-Tetr L Flags ******	K(Zn+HL)=9 K(Zn+H2L)= ********* CAS 5 ahydro-5H Lg K value K1=1.0 ******** (26 0]-octane-	.10 5.25 **********************************
********* C6H10N4 1,5-Pentam Metal Zn++ ********* C6H10N4OS 4,5-Dimeth Metal Zn++	methy: methy: Mtd EMF ***** Myl-2 Mtd Mtd gl ****	******* lenetet Medium KNO3 ****** ,4,6,8 Medium KNO3 ******	****** L razole Temp 25°C ***** tetraa Temp 25°C *****	******** Metraze, 6,7,8, Conc Cal 0.50M U ******** azabicycl Conc Cal 0.10M U *******	****** zole ,9-Tetr L Flags ******* Lo[3,3,	K(Zn+HL)=9 K(Zn+H2L)= ******** CAS 5 ahydro-5H Lg K value K1=1.0 ******** (26 0]-octane- Lg K value Lg K value K1=5.56	.10 5.25 **********************************
******** C6H10N4 1,5-Pentam Metal Zn++ ******** C6H10N40S 4,5-Dimeth Metal Metal Metal Ketal Cn++ **********************************	methy: Mtd EMF **** Myl-2 Mtd gl *****	******* leneteto Medium KNO3 ****** ,4,6,8 Medium KNO3 ********	****** L razole Temp 25°C ***** tetraa Temp 25°C ****** L ene)oo	******** Metraze, 6,7,8, 	****** zole ,9-Tetr L Flags ******* Lo[3,3, L Flags 	K(Zn+HL)=9 K(Zn+H2L)= ******** CAS 5 ahydro-5H Lg K value K1=1.0 ********* (26 0]-octane- Lg K value Lg K value (82 ***********************************	.10 5.25 **********************************

C6H10O2	**************************************
Metal	Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
**************************************	gl diox/w 30°C 75% U K1=10.16 1962MMb (47944)2395 ************************************
Metal	Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
**************************************	gl NaClO4 25°C 0.10M C K1=2.58 1978SPd (47973)2396 ************************************
	Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
	gl NaCl04 25°C 0.10M U K1=1.89 B2=3.19 1967PRb (47982)2397 ************************************
C6H10O3	HL CAS 141-97-9 (3068) toacetate; CH3.CO.CH2.CO2.C2H5
Metal	Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
********* C6H10O4	gl diox/w 30°C 75% U K1=9.24 1973AAa (48008)2398 ************************************
Metal	Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
	oth NaClO4 40°C 0.10M U K1=2.8 1981SSe (48047)2399 aper electrophoresis.
	dis NaCl04 25°C 1.00M U K1=1.23 B2=1.78 1974MSc (48048)2400
Zn++	dis oth/un 25°C 0.0 U K1=2.67 1966RMb (48049)2401
Zn++ ***********************************	gl oth/un 25°C 0.10M U K1=1.8 1960YYa (48050)2402 ****************************** H2L (3070) malonic acid; HOOC.CH(CH(CH3)2).COOH
Metal	Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++	gl KNO3 25°C 0.10M C H K1=2.85 B2=5.54 1989ABa (48110)2403 B(Zn(bpy)L)=8.02

```
DH(K1)=17.9 kJ mol-1, DS(K1)=114.6 J K-1 mol-1
*************************
                         CAS 616-62-6 (3069)
n-Propylmalonic acid; HOOC.CH(C3H7).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C H K1=2.75 B2=4.81 1989ABa (48116)2404
                      K(Zn+HL)=1.15
                      B(Zn(bpy)L)=7.52
DH(K1)=16.2 \text{ kJ mol}-1, DS(K1)=107 \text{ J K}-1 \text{ mol}-1
______
Zn++ con oth/un 25°C .001M U K1=3.12 1929GIa (48117)2405
*********************************
C6H1004S
            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
·
Zn++ gl KNO3 25°C 0.10M C K1=2.13 1975LPa (48122)2406
*************************
C6H10O4S
                         CAS 111-17-1 (139)
            H2L
3,3'-Thiodipropanoic acid; HOOC.CH2.CH2.S.CH2.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 35°C 0.10M C M K1=2.76 1999DSb (48161)2407
                      B(ZnAL)=4.51
A is thiamine hydrochloride.
______
      gl NaClO4 25°C 0.10M U TIH K1=3.01 1982DBb (48162)2408
Data for 0.2, 0.3 M. At I=0, K1=2.91. Data for 35 and 45 C.
DH(K1)=-6.15 \text{ kJ mol-1}, DS(K1)=35.9 \text{ J K-1 mol-1}.
______
Zn++ gl KNO3 25°C 0.05M M K1=3.97 1975DPb (48163)2409
______
Zn++ gl KNO3 25°C 0.10M C
                      K1=1.72 1975LPa (48164)2410
                     K(Zn+HL)=1.28
-----
Zn++ vlt KNO3 30°C 1.20M U I K1=1.49 1972RGb (48165)2411
1.2 KNO3, 20% (CH3)2S0: K1=2.64. 20% DMF: K1=2.47
______
Zn++ gl NaCl04 25°C 0.10M U K1=1.6 1968SKd (48166)2412
*************************
C6H1004S2
            H2L
                         CAS 7244-02-2 (438)
1,2-Bis(carboxymethylthio)ethane; HOOC.CH2.S.CH2.S.CH2.S.CH2.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.10M U K1=2.55 1971FPa (48223)2413
```

Zn++ oth o	oth/un 25°C 0.10M U	K1=2.7	 1964PCa (48224)2414
Zn++ gl o	oth/un 20°C 0.10M U	K1=2.61 1 K(Zn+HL)=1.74	1961SOb (48225)2415
C6H10O4S2	H2L Dutanedioc acid dimethy	CAS 27887-85	
Metal Mtd M	Medium Temp Conc Cal Fl	ags Lg K values	Reference ExptNo
**************************************	CCl 25°C 0.10M C ********** H2L ppanic acid; H00C.CH(CH	CAS 80030-06	*******
Metal Mtd M	Medium Temp Conc Cal Fl	ags Lg K values	Reference ExptNo
**************************************	(NO3 25°C 0.10M C ********** H2L ppanic acid; H00C.CH2.C	**************************************	
Metal Mtd M	Medium Temp Conc Cal Fl	ags Lg K values	Reference ExptNo
**************************************	(NO3 25°C 0.10M C ************************************	K(Zn+HL)=1.05 ************************************	-4 (983)
	ropanoic acid; HOOC.CH2		
Metal Mtd M	Medium Temp Conc Cal Fl	ags Lg K values 	Reference ExptNo
J	(NO3 25°C 0.10M C		L975LPa (48301)2419
C6H10O5 3,3'-Oxodipropio	H2L onic acid; HOOC.CH2.CH2	CAS 5961-83.	-1 (981)
Metal Mtd M	Medium Temp Conc Cal Fl	ags Lg K values	Reference ExptNo
C6H10O6	(NO3 25°C 0.10M C ********** H2L nethoxy)ethane; H00C.CH	CAS 23243-68	**************************************
	Medium Temp Conc Cal Fl		Reference ExptNo
Zn++ gl K	(NO3 25°C 0.10M U ************************************	K1=2.65	*******

```
D-Galacturonic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl04 37°C 0.15M C K1=1.74 B2=2.62 1976MTa (48380)2422
                      B(ZnHL)=3.93
                       B(ZnH-1L)=-3.38
*********************************
C6H1007
            HL Glucuronic acid CAS 6556-12-3 (599)
D-Glucuronic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl R4N.X 25°C 0 M I K1=1.80 B2=3.3 1996GMb (48409)2423
At I=0.16 M: K1=1.43, B2=2.8
*********************************
           H2L Saccharic acid CAS 87-73-0 (1191)
D-2,3,4,5-Tetrahydroxy-1,6-hexanedioic acid, Glucaric acid; HOOC.(CHOH)4.COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 0.10M U K1=3.47 1997PPa (48459)2424
                      K(Zn+H2L=ZnL+2H)=-3.90
                      *K(ZnL) = -7.38
gl NaCl04 25°C 0.10M U M K1=3.46 1997PPc (48460)2425
                      K(Zn(edta)+L)=3.21
********************************
                         CAS 52-52-8 (3105)
1-Aminocyclopentanecarboxylic acid; H2N.C5H8.COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 20°C 0.10M U K1=4.76 B2=9.16 1963IPa (48501)2426
***********************
C6H11N02
                         CAS 16258-05-2 (1128)
2-Amino-hex-5-enoic acid; CH2:CH.CH2.CH2.CH(NH2).COOH
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M U K1=4.49 B2=8.602 1975IPb (48509)2427
*******************************
               Pipecolinic acd CAS 3105-95-1 (1125)
C6H11N02
            HL
2-Piperidine carboxylic acid; C5H10N.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      gl oth/un 30°C 0.10M U H K1=5.86 B2=11.44 1985RRe (48533)2428
DH(K1)=-71 \text{ kJ mol}-1, DS=122 \text{ J K}-1 \text{ mol}-1, DH(K2)=-34, DS=4.7
______
```

```
gl alc/w 25°C var U T
                               1974DKa (48534)2429
Zn++
                      K1=67.96/D+3.5766
                      K2=42.94/D+4.123
D=Dielectric constant for the 1-PrOH/H2O mixture. Also at 0 and 40 C
**********************************
                          (1232)
2,2'-Iminodipropanoic acid; HN(CH(CH3)COOH)2
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=6.6 B2=11.10 1987AKa (48571)2430
-----
Zn++ gl KNO3 25°C 0.10M U K1=6.6 B2=11.10 1987BKa (48572)2431
C6H11N04
           H2L
                          (3106)
Iminodipropanoic acid; HN(CH2.CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KCl 30°C 0.10M U K1=4.95 1952CMa (48588)2432
******************************
C6H11N04S
           H3L
                         CAS 58033-48-5 (3124)
N-2-Mercaptoethyliminodiethanoic acid; HS.CH2.CH2.N(CH2.COOH)2
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 20°C 0.10M U K1=15.92 1955SAa (48605)2433
******************************
                        CAS 104640-54-2 (2460)
S-Carboxyethyl-L-cysteine; H2N.CH(CH.S.CH2.CH2.COOH).COOH
_____
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 2.00M U K1=4.61 B2=8.67 1980MAc (48620)2434
C6H11N05
            H2L
               HIMDA
                         CAS 93-62-9 (192)
N-(2-Hydroxyethyl)iminodiethanoic acid; HO.CH2.CH2.N(CH2.COOH)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
           25°C 1.00M U TI
     cal KNO3
                               1987VRa (48661)2435
DH(K1)=-14.2 kJ mol-1, DS=103 J K-1 mol-1; DH(B2)=-19.7, DS=155
______
Zn++ vlt NaCl04 25°C 0.30M U K1=8.02 1974KOb (48662)2436
______
Zn++ gl oth/un 25°C 1.50M U M K1=8.33
                               1970FDa (48663)2437
                      B(ZnL(NH3))=11.08
                      B(ZnL(py)) = 9.54
                      B(ZnL(NH3)2)=12.62
```

B(ZnL(py)2)=9.92

```
B(ZnLA2)=10.20. B(ZnLA(NH3))=11.72. B(ZnL(py)(NH3))=11.76.
B(ZnL(NH3)(SCN))=11.68. B(ZnL(NH3)(S2O3))=12.26 + other data. A=thiourea
______
            20°C 0.10M U
      oth KNO3
                        K1=9.4 B2=12.90 1965JMa (48664)2438
Method: electrophoresis
                 -----
   gl KCl 20°C 0.10M U
                        K1=8.33 B2=12.02 1955SAa (48665)2439
Zn++
                        K(ZnLOH+H)=9.44
                        K(Zn(L(OH)2)+H)=10.85
            30°C 0.10M U K1=8.57 B2=12.67 1952CCa (48666)2440
********************************
                            (7174)
N-Carboxymethylthreonine; HOOCCH2NHCH(CH(OH)CH3)COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C
                        K1=7.06
                              B2=12.14 2001MTb (48822)2441
                        B(ZnHL)=10.52
                        B(ZnHL2)=18.06
                        B(ZnH-1L)=-1.46
**********************************
C6H11N05
            H2L
                            (1233)
N-Hydroxyimino-2,2'-dipropanoic acid; HO.N(CH(CH3)COOH)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=5.05 B2=9.10 1987AKa (48833)2442
______
Zn++ gl KNO3 25°C 0.10M U K1=5.05 B2=9.10 1987BKa (48834)2443
**************************
                          CAS 39716-94-4 (3125)
C6H11N07S
N-2-Sulfoethyliminodiethanoic acid (taurine-NN-diacetic acid)
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      EMF KCl
            20°C 0.10M U K1=7.05
                                1949SAa (48843)2444
Method: H electrode
**********************************
                          CAS 98-99-7 (3108)
Piperidine-1-carbodithioic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ dis oth/un 25°C 0.01M U B2=11.5 1973SSa (48854)2445
Zn++ vlt KCl 25°C 1.00M U B2=11.7 1973SSa (48855)2446
***********************************
                         CAS 34392-54-6 (4350)
4-(2-Methylaminoethyl)imidazole;
```

Metal	Mtd Med	dium Temp 	Conc Cal Fla	ags Lg K values	Reference ExptNo
Zn++ ******	gl KC]	l 25°C *****	0.10M U	K1=4.83	1973BDb (48863)2447 *******
C6H11N3 4-Butyl-4H		L		CAS 16227-	
Metal	Mtd Med	dium Temp	Conc Cal Fla	ags Lg K values	Reference ExptNo
Medium: KC Also DH an	104. Als	so data fo lues.	or 35 C and ⁻	for 0.05 M KClO4.	5.24 1981RPb (48868)2448 **********************************
C6H11N3O4 Glycyl-gly				Ly CAS 556-33 H2.CO.NH.CH2.COOH	3-2 (415)
Metal	Mtd Med	dium Temp	Conc Cal Fla	ags Lg K values	Reference ExptNo
Zn++	gl KNO	03 25°C			5.45 1992LPc (48955)2449
Zn++	gl NaC	Cl04 37°C		K1=3.378 B2=5 B(ZnHL)=9.087 B(ZnH-1L)=-4.67	5.395 1975CMa (48956)2450
Zn++ Medium: 0.			0.80M U	K1=3.10 K(Zn+HL)=0.89	1972RLb (48957)2451
	_	03 25°C	0.15M U	K1=3.18	1958LCb (48958)2452
	EMF nor	ne 25°C	0.0 U	K1=3.33 B2=6	5.32 1955EMa (48959)2453
Medium: Zn	gl oth SO4			K1=2.6	·
C6H11N9		L		(7008) (CH2.CH2)2NH	******
Metal	Mtd Med	dium Temp			Reference ExptNo
Zn++	gl NaN	NO3 20°C		K1=7.46	1981ESa (49000)2455
					1979ESa (49001)2456 *******
C6H12N07P		H4L			-27-0 (3127)
Metal	Mtd Med	dium Temp	Conc Cal Fla	ags Lg K values	Reference ExptNo

```
EMF KCl 20°C 0.10M U K1=11.24 1949SAa (49031)2457
Zn++
Method: H electrode
*********************************
             L
                TED / DABCO
                          CAS 280-57-9 (3076)
1,4-Diazobicyclo[2,2,2]octane (triethylenediamine)
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      sp non-aq ? 100% U HM
                                  1990AHb (49039)2458
                         K(ZnA+L)=4.69
Medium: CH2Cl2. A=biphenyl capped mesoporphyrin. DH=-60 kJ mol-1. Data for
other porphyrin Zn complexes
                 -----
      sp non-aq ? 100% U HM
                                  1990HMa (49040)2459
Zn++
                         K(Zn2A+L=Zn(A)LZn)=7.87
Medium: CH2Cl2. A=cyclic porphyrin dimer. DH=-77 kJ mol-1,DS=-121 J K-1 m-1
*********************
C6H12N2O3
              HL
                 Ala-Ala
                            CAS 1948-31-8 (53)
Alanyl-alanine; H2N.CH(CH3).CO.NH.CH(CH3).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.10M C T K1=3.75
      gl KNO3
                                  2000RNb (49101)2460
Data for 35 and 45 C.
***********************************
                           CAS 2867-20-1 (67)
                 DL-Ala-DL-Ala
DL-Alanyl-DL-alanine; H2N.CH(CH3).CO.NH.CH(CH3).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
            20°C 0.20M U K1=2.97 B2=5.74 1982KRc (49125)2461
Zn++ gl KCl
C6H12N2O3S
                 Ala-Cys
                             (670)
             H2L
Alanyl-cysteine; NH2.CH(CH3).CO.NH.CH(CH2.SH).COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        B2=11.23
                                  1990CRa (49155)2462
    gl KCl 25°C 0.20M U
Zn++
                         B(ZnHL2)=19.86
                         B(ZnH-1L2)=1.05
                         B(ZnH2L2)=27.39
********************************
C6H12N2O3S2
             H3L
                             (8783)
Cysteinyl-cysteine;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                       K1=11.6
Zn++ gl NaClO4 25°C 0.10M C
                                  2002VGa (49164)2463
                         B(ZnHL)=16.8
For the N-acetyl derivative, K1=11.0, B2=21.8.
```

C6H12N2O4			H2L	EDDA		**************************************	7-0 (119	9)
Metal	Mtd	Medium	Temp	Conc Ca	l Flag	s Lg K values	Refe	rence ExptNo
Zn++	gl	KNO3	25°C	0.10M U		K1=10.99	1979GMa	(49202)2464
Zn++	vlt	NaC104	25°C	0.30M U		K1=10.79	1974K0b	(49203)2465
Zn++	gl	NaNO3	25°C	0.10M U		K1=11.71 B(ZnHL)=15.48 B(ZnH-1L)=11.98 B(Zn2L)=14.91	1974SJa	(49204)2466
Zn++	gl	KNO3	25°C	0.10M U	M	K(ZnL+Gly)=3.79	1972IVb	(49205)2467
Zn++	gl	KNO3	25°C	0.10M U	М	K1=11.22 K(ZnL+en)=4.44	1970DNa	(49206)2468
Zn++	_	KC1		 0.10M U		K1=11.1 ********		(49207)2469
C6H12N2O4			H2L	N,N-E	DDA	CAS 5835-2 2N.CH2.CH2.N(CH2	9-0 (23	
Metal								
	MCa	Medium	Temp	Conc Ca	l Flag	s Lg K values	Refe	rence ExptNo
Zn++	gl	KC1	20°C	0.10M U		K1=11.93 K(ZnLOH+H)=10.1	 1955SAa 3	(49293)2470
**************************************	gl ****	 KCl *****	20°C *****	0.10M U	*****	K1=11.93	 1955SAa 3 ******	(49293)2470 *******
**************************************	gl *****	KCl ******* exanedi	20°C ***** H2L amide	0.10M U ****** ; HN(OH)	******	K1=11.93 K(ZnLOH+H)=10.1 ***********************************	1955SAa 3 ******* 3-4 (593	(49293)2470 ************************************
**************************************	gl **** coxyh Mtd	****** exanedi Medium	20°C ***** H2L amide Temp	0.10M U ****** ; HN(OH) Conc Ca	***** .CO.(C	K1=11.93 K(ZnLOH+H)=10.1 ********** CAS 4726-8 H2)4.CO.NH(OH) S Lg K values B(ZnHL)=14.67 B(Zn2L2)=18.04	1955SAa 3 ******* 3-4 (592 	(49293)2470 ************************************
********* C6H12N2O4 N,N-Dihydr Metal Zn++	gl **** Poxyh Mtd gl	******* exanedia Medium KCl	20°C ***** H2L amide Temp 25°C	0.10M U ****** ; HN(OH) Conc Ca 0.20M C	***** .CO.(C	K1=11.93 K(ZnLOH+H)=10.1 ********** CAS 4726-8 H2)4.CO.NH(OH) S Lg K values B(ZnHL)=14.67 B(Zn2L2)=18.04 K1=7.76 B(ZnHL)=14.51	1955SAa 3 ******* 3-4 (592 Reference 1993KNa	(49293)2470 ********* 11) rence ExptNo (49327)2471 (49328)2472
**************************************	gl exxxx exxyh mtd exxx gl gl	******** Exanedia Medium KCl KCl NaNO3	20°C ***** H2L amide Temp 25°C 25°C *****	0.10M U ****** ; HN(OH) Conc Ca 0.20M C 0.10M C	****** .CO.(C 1 Flag ******	K1=11.93 K(ZnLOH+H)=10.1 ************************************	1955SAa 3 ******** 3-4 (593 Refer 1993KNa 1989EHa *******	(49293)2470 ***********************************
********* C6H12N2O4 N,N-Dihydr Metal Zn++ ******** C6H12N2O45 DL-Dithio-	gl **** oxyh mtd gl s**** gl bis(******* exanedia Medium KCl NaNO3 ******	20°C ***** H2L amide Temp 25°C ***** H2L -3-pro	0.10M U ****** ; HN(OH) Conc Ca 0.20M C 0.10M C	****** .CO.(C 1 Flag ****** ne acid);	K1=11.93 K(ZnLOH+H)=10.1 *********** CAS 4726-8 H2)4.CO.NH(OH) S Lg K values B(ZnHL)=14.67 B(Zn2L2)=18.04 K1=7.76 B(ZnHL)=14.51 ***********************************	1955SAa 3 ******* 3-4 (592 Reference 1993KNa 1989EHa ******** -0 (1404 H2.S)2	(49293)2470 ********** 11) rence ExptNo (49327)2471 (49328)2472 **********************************

Zn++	gl	NaCl	37°C 0.15M U	T K1=6.65 B(ZnHL)=12.89	1985CFb	(49359)2474
Zn++	gl	NaCl	37°C 0.15M U	T K1=6.688 B(ZnHL)=12.802	1982HFa	(49360)2475
			37°C 0.15M U	B(Zn2L)=10.07		(49361)2476
C6H12N4O6			**************************************	(2677)	*****	******
			Temp Conc Cal Fla	•	Refer	rence ExptNo
			25°C 0.10M M		1980LSb	(49399)2477
***	***	****	****	B(ZnH3L)=30.76 B(ZnH2L)=24.50 B(ZnHL)=18.33 B(ZnH-1L)=-1.24		***
C6H12O2			************* HL 4-Me-valer d; (CH3)2CH.CH2.CH	B(ZnH2L)=24.50 B(ZnHL)=18.33 B(ZnH-1L)=-1.24 ************************************	******	
C6H12O2 4-Methylpo	entan	oic acio	HL 4-Me-valer	B(ZnH2L)=24.50 B(ZnHL)=18.33 B(ZnH-1L)=-1.24 ************************************	**************************************	2)
C6H12O2 4-Methylpo Metal Zn++ Data also	entan Mtd gl for	oic acio Medium NaNO3	HL 4-Me-valer d; (CH3)2CH.CH2.CH	B(ZnH2L)=24.50 B(ZnHL)=18.33 B(ZnH-1L)=-1.24 **************** *ic CAS 646-07 #2.COOH *************** *ix CAS 646-07 #2.COOH ***********************************	********* -1 (5862	2) rence ExptNo (49414)2478
C6H12O2 4-Methylpo Metal Zn++ Data also	entan Mtd gl for ****	oic acio Medium NaNO3 50% v/v *****	HL 4-Me-valerd; (CH3)2CH.CH2.CH Temp Conc Cal Flace 25°C 0.10M C TI M EtOH/H2O, and 50% ************************************	B(ZnH2L)=24.50 B(ZnHL)=18.33 B(ZnH-1L)=-1.24 **************** *ic CAS 646-07 #2.COOH *************** *ix CAS 646-07 #2.COOH ***********************************	********* -1 (5862	2) rence ExptNo (49414)2478
C6H12O2 4-Methylpo Metal Zn++ Data also ******** C6H12O5S 1-Thio-bef	entan Mtd gl for ***** ta-D-	oic acio Medium NaNO3 50% v/v ******	HL 4-Me-valerd; (CH3)2CH.CH2.CH Temp Conc Cal Flace 25°C 0.10M C TI M EtOH/H2O, and 50% ************************************	B(ZnH2L)=24.50 B(ZnHL)=18.33 B(ZnH-1L)=-1.24 ************************************	********* -1 (5862 Refer 1988LTc .96 ixtures *******	2) rence ExptNo (49414)2478 *******

D-Gluconic acid, 2,3,4,5,6-Pentahydroxyhexanoic acid; HO.CH2(CHOH)4.COOH

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

Zn++ vlt NaClO4 30°C 1.0M C K1=1.70 B2= 1.60 1978PBb (49675)2480

B3=1.85

B4=2.04

B5=3.01

Method: polarography. Medium pH 6.5.

```
Zn++ gl NaClO4 37°C 0.15M U
                                   1977RWc (49676)2481
                         B(ZnH-1L)=-9.69
______
Zn++ gl oth/un ? ? U
                                  1976PPd (49677)2482
                         K(Zn+H2L=ZnHL+H)=-1.62
                         K(ZnL+H)=8.14
______
            20°C 0.20M U K1=1.70 1938CKa (49678)2483
      EMF KCl
Method: H electrode
*********************************
                           CAS 108-91-8 (314)
Cyclohexylamine; C6H11.NH2
__________
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 37°C 0.15M C K1=4.60 1974MWb (49799)2484
***********************
                 Isoleucine CAS 73-32-5 (424)
C6H13N02
              HL
2-Amino-3-methylpentanoic acid; CH3.CH2.CH(CH3).CH(NH2).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M C M K1=5.29 B2= 8.97 2000ZLa (49875)2485
                        B(ZnLA)=11.39
A=12-Pentyl-1,4,7,10-tetraazacyclotridecane-11,13-dione.
______
Zn++ gl KNO3 35°C 0.10M C M K1=4.60 B2= 8.28 1998ZWa (49876)2486
                         B(ZnH-1L2)=0.94
                         B(ZnH-2L2)=-8.26
Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-
2,10-dione dioxime
-----
     gl KNO3 25°C 0.20M U T HM K1=5.20
                                   1996JLd (49877)2487
                         K(Zn(bpy)+L)=5.12
Data for 25-45 C. DH(K1)=-19.3 kJ mol-1, DS(K1)=35 J K-1 mol-1;
DH(Zn(bpy)L)=-7.1, DS(Zn(bpy)L)=75.
      gl NaClO4 25°C 0.20M U T M K1=4.88 B2= 9.21 1993PPa (49878)2488
7n++
                         K(ZnA+L)=4.81
A is 2,2'-bipyridylamine. Also data for 35 and 45 C.
______
Zn++ gl NaCl04 27°C 0.20M U M K1=4.88 B2= 9.21 1988PPc (49879)2489
                         K(ZnA+L)=4.81
A is 2,2'-dipyridylamine.
-----
Zn++ gl KNO3 25°C 0.10M U K1=4.72 1985MKa (49880)2490
Zn++ gl KCl 25°C 0.50M U M T K1=4.49 B2=8.49 1966LHc (49881)2491
                         K(ZnL+A)=2.27
                         B(ZnAL)=6.76
```

B(ZnAL2)=9.58 B(ZnA2L2)=12.34

```
B3=10.9. HA=pyruvic acid
-----
Zn++ vlt oth/un 25°C 1.0M U B2=11.2 1965VZa (49882)2492
______
Zn++ gl oth/un 20°C 0.01M U B2=8.2 1952PEa (49883)2493
Medium: ZnSO4
************************************
                  Leucine
                              CAS 61-90-5 (47)
2-Amino-4-methylpentanoic acid; H2N.CH(CH2.CH(CH3)2)COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M C M K1=5.29 B2= 9.13 2000ZLa (50012)2494
                           B(ZnLA)=11.32
A=12-Pentyl-1,4,7,10-tetraazacyclotridecane-11,13-dione.
Zn++ gl alc/w 37°C 40% C M K1=5.24 B2= 9.60 1998AAa (50013)2495
                           B(ZnLA)=9.88
                           K(ZnL+A)=4.64
                           K(ZnA+L)=4.66
                           B(ZnLC)=9.63
HC:2[o-hydroxyphenylazo]-2-cyanomethyl benzimidazole. 40% EtOH/H2O, I=0.15
H2A:5-[o-hydroxyphenylazo] barbituric acid. K(ZnL+C)=4.39, K(ZnC+L)=4.20.
_____
Zn++ gl alc/w 37°C 40% C K1=5.24 B2= 9.60 1997AAb (50014)2496
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4.
              25°C 0.20M U T HM K1=5.09
Zn++
   gl KNO3
                                      1996JLd (50015)2497
                           K(Zn(bpy)+L)=4.52
Data for 25-45 C. DH(K1)=-14.2 kJ mol-1, DS(K1)=54 J K-1 mol-1;
DH(Zn(bpy)L)=-29.7, DS(Zn(bpy)L)=13.
       gl NaCl04 25°C 0.20M U T M K1=4.74 B2= 9.10 1993PPa (50016)2498
Zn++
                           K(ZnA+L)=4.69
A is 2,2'-bipyridylamine. Also data for 35 and 45 C.
______
Zn++ vlt KNO3 25°C 0.10M C M K1=4.50 B2= 8.72 1991KNb (50017)2499
                           B3=11.03
                           B(ZnAL)=6.33
                           B(ZnA2L)=8.79
                           B(ZnAL2)=10.38
Method: polarography, medium pH 8.5. HA is ethanoic acid.
______
       gl KNO3 25°C 0.10M U I K1=4.73 B2=9.30 1990RAb (50018)2500
Data also for 10% w/w EtOH/H20 (B1=4.94; B2=9.58) and 25% (5.43; 10.15)
______
Zn++ gl KNO3 35°C 0.20M U M K1=4.69
                                  B2=8.68 1989RVa (50019)2501
```

K(ZnL+A)=4.26

```
A=bis(imidazol-2-yl)methane
______
Zn++ gl NaClO4 27°C 0.20M U M K1=4.74 B2= 9.10 1988PPc (50020)2502
                      K(ZnA+L)=4.69
A is 2,2'-dipyridylamine.
                 Zn++ gl KNO3 25°C 0.10M U K1=4.88
                           1985MKa (50021)2503
-----
Zn++ gl oth/un 30°C 0.20M U M K1=4.74 1984J0b (50022)2504
                     K(Zn(bpy)+L)=4.48
Medium: not stated.
------
     nmr KNO3 34°C 0.10M U M
                              1983SFa (50023)2505
                   K(Zn(ATP)+L)=3.23
------
                    M T
Zn++ gl NaClO4 25°C 0.10M C
                              1980FSa (50024)2506
                      B(Zn(bpy)L)=9.71
                      K(Zn(bpy)+L)=4.41
                      B(ZnL(phen))=11.22
                      K(Zn(phen)+L)=4.67
K(Zn(bpy)+L)=4.0, K(Zn(Phen)+L)=4.4 by NMR in 0.1-0.7M NaNO3, 34 C.
______
Zn++ oth KNO3 20°C 0.10M U K1=5.8 B2=10.00 1964JOa (50025)2507
                     K3 = 3.3
Method: paper electrophoresis
______
    gl oth/un 25°C 0.01M U T K1=3.99 B2=7.37 1959DLb (50026)2508
______
Zn++ gl oth/un 20°C 0.01M U B2=9.1
                            1952PEa (50027)2509
Medium: ZnSO4
          -----
Zn++ gl oth/un 25°C 0.01M U T K1=4.92 B2=8.93 1949MMa (50028)2510
******************************
               Norleucine CAS 616-06-8 (602)
2-Aminohexanoic acid (2-Aminocaproic acid) CH3.(CH2)3.CH(NH2).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
   gl NaClO4 20°C 0.10M U T H K1=5.76 B2=10.38 1981SDb (50150)2511
Data for 20-40 C. DH(B2)=-79.3 kJ mol-1, DS(B2)=-71.9 J K-1 mol-1.
-----
Zn++ gl KNO3 30°C 0.10M U
                              1980MSb (50151)2512
                      K(Zn(His)+L)=4.12
______
Zn++ gl KNO3 25°C 0.10M C
                   K1=4.59 B2=8.93 1975IPb (50152)2513
______
Zn++ gl oth/un 18°C .005M U B2=8.7
                              1953PEa (50153)2514
Medium: 0.005 ZnSO4
-----
Zn++ gl oth/un 20°C 0.00 U B2=8.5
                              1952PEa (50154)2515
```

```
Medium: 0.0005 ZnSO4.
-----
     gl oth/un 20°C 0.01M U B2=10.4
                             1950ALa (50155)2516
**************************
C6H13N02
                       CAS 4312-93-0 (4386)
Hexanohydroxamic acid; CH3.CH2.CH2.CH2.CO.NH.OH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C K1=5.29
                           B2= 9.41 2000FEc (50225)2517
                     B(ZnH-1L2)=0.0
                     B(ZnH-1L)=-2.93
*********************************
C6H13N02
                       CAS 1606-01-5 (2907)
N,N'-Diethylglycine; (C2H5)2N.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                              Reference ExptNo
______
    gl NaClO4 21°C 0.10M M
                   K1=4.77
                             1984L0b (50235)2518
                     B(ZnH-1L)=-2.91
*******************************
              Ethionine
C6H13N02S
           HL
                      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
-----
Zn++ gl KNO3 25°C 0.10M U K1=5.22 B2=10.36 1964LMa (50257)2519
******************************
                       CAS 4383-88-4 (1895)
2-Aminooxyhexanoic acid; CH3.CH2.CH2.CH2.CH(0.NH2).COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 25°C 0.50M U K1=1.48 1985WTa (50276)2520
C6H13N04
            HL
               Bicine
                       CAS 150-25-4 (2124)
N,N-Bis(2-hydroxyethyl)glycine; (HO.CH2.CH2)2N.CH2.COOH
-----
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
   gl KNO3 25°C 0.10M C K1=5.37 B2=8.57 1991KNa (50318)2521
______
    gl KNO3 30°C 0.10M U M K1=5.23 1984GHb (50319)2522
Zn++
                    K(Zn(phen)+L)=4.18
-----
                   K1=6.5 B2=10.70 1965JMa (50320)2523
          20°C 0.10M U
Zn++ oth KNO3
Method: paper electrophoresis
------
Zn++ gl KCl 30°C 0.10M U K1=5.38 B2=8.64 1957FCa (50321)2524
______
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Zn++ gl KCl 30°C 0.10M U K1=5.36 B2=8.62 1953CCa (50322)2525
Tricine CAS 5704-04-1 (1239)
N-(Tris(hydroxymethyl)methyl)glycine; (HO.CH2)3C.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 25°C 0.10M U TIH K1=5.11 2004EAa (50489)2526
Data for 5-45 C. DH(K1)=-33.30 kJ mol-1, DS=-13.9 J K-1 mol-1. Values for
0.02-0.15 M KNO3 and 60-75% v/v acetone, 75% EtOH and 75% dioxane/H20
______
Zn++ gl KNO3 25°C 0.10M C M K1=5.59
                                2003AHa (50490)2527
                       K(ZnL+A)=3.59
HA is 3-amino-5-mercapto-1,2,4-triazole.
Zn++ gl KNO3 30°C 0.10M U M K1=5.29 1987TGb (50491)2528
                      K(Zn(phen)+L)=4.81
Zn++ gl KNO3 30°C 0.10M U M K1=5.29 1985TGa (50492)2529
                      K(Zn(bpy)+L)=4.58
_____
     vlt NaClO4 30°C 0.20M C K1=6.8 B2= 7.80 1984KKd (50493)2530
Method: polarography. Medium pH 8.0
CAS 84518-56-9 (4387)
C6H13N06
2-Amino-2-deoxy-D-gluconic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M U K1=4.56 B2= 8.36 2000KAa (50524)2531
                      B3=10.20
Zn++ gl KNO3 30°C 0.10M U K1=4.9 1966MSa (50525)2532
CAS 1072-99-7 (284)
C6H13NS
1-Methyl-4-mercaptopiperidine; C5H9N(CH3)(SH)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl alc/w 25°C 3.0M U
                                1982BGa (50543)2533
                       K(3Zn+6HL=Zn3(HL)6)=39.71
                       K(5Zn+12HL=Zn5(HL)12)=79.87
                       K(2Zn+6HL=Zn2(HL)6)=35.26
*********************************
                Citrulline
             HL
2-Amino-5-ureidovaleric acid; H2N.CO.NH.CH2.CH2.CH2.CH(NH2).COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=4.13
                               1970CMc (50564)2534
```

```
gl oth/un 20°C .005M U B2=8.7
                                1953PEa (50565)2535
Medium: 0.005 ZnSO4
************************************
                          CAS 26177-86-6 (7139)
C6H1309P
Fructose-6-phosphoric acid; C6H1105.H2P04
 -----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M C K1=3.49 1996GCa (50602)2536
C6H1309P
                          CAS 59-56-3 (3049)
alpha-D-Glucose-1-phosphoric acid; Glucopyranose-1-phosphoric acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                       K1=2.118
     gl NaCl 25°C 0.15M U
                                1990KLb (50614)2537
                      B(ZnH-1L)=-5.818
Zn++ ix NaClO4 25°C 0.10M U K1=2.37 1966DTa (50615)2538
By glass electrode K1=2.34
C6H14N02P
                           (6465)
             HL
Piperidinemethylphosphinic acid; C5H10N.CH2.PO2H2
______
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ gl NaClO4 25°C 0.10M C K1=4.46 1992LBa (50631)2539
***********************************
C6H14N02S
                           (6142)
2-Amino-4-(S,S-dimethylsulphonium)butanoic acid; (CH3)2S(+)CH2CH2CH(NH2)CHLH;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KCl 25°C 0.20M U K1=4.05 B2=7.75 1982FGa (50640)2540
*******************************
                          CAS 20439-47-8 (3077)
cis-1,2-Diaminocyclohexane; C6H10(NH2)2
------
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl oth/un 20°C ->0 U T H K1=5.89 B2=11.37 1958BFa (50668)2541
DH(K1) = -21.8 \text{ kJ mol} - 1, DS = 38 \text{ J K} - 1 \text{ mol} - 1; DH(K2) = -17.6, DS = 42.10 \text{ C K} 1 = 6.00,
K2=5.55; 30 C: 5.74, 5.38; 40 C: 5.62, 5.25
______
    gl KCl
            20°C 0.10M U
                        K1=6.08
Zn++
                              B2=11.57 1956SBa (50669)2542
                       K(ZnLOH++H)=10.6
                       K(ZnL(OH)2+H)=11.4
*********************************
                          CAS 21436-03-3 (2456)
C6H14N2
```

```
trans-1,2-Diaminocyclohexane; C6H10(NH2)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.10M U K1=7.74 B2=14.27 1970ABc (50687)2543
DL, D and L isomers
______
   gl oth/un 20°C ->0 U T H K1=6.24 B2=11.65 1958BFa (50688)2544
DH(K1)=-20.9 kJ mol-1,DS=50 J K-1 mol-1; DH(K2)=-21.8,DS=29. 10 C: K1=6.37,
K2=5.66; 30 C: 6.14, 5.31; 40 C: 6.01, 5.25
                        K1=6.37 B2=11.98 1956SBa (50689)2545
Zn++
   gl KCl
            20°C 0.10M U
                        K(ZnL2+OH)=3.1
                        K(ZnL2OH+OH)=2.6
*****************************
                            (2357)
1-0xa-4,7-diazacyclononane; Cyclo(-((CH2)2.NH)2(CH2)2.0.-)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=6.40 B2=12.1 1990CCa (50706)2546
-----
Zn++ gl NaNO3 25°C 0.10M U K1=6.36 B2=11.43 1986TSa (50707)2547
Zn++ gl NaNO3 25°C 0.01M U K1=6.32 B2=11.39 1982HTa (50708)2548
*************************
C6H14N2O
                           CAS 10466-61-2 (3116)
L-Leucine amide; H2N.CH(CH2.CH(CH3)2).CO.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.01M U K1=1.80 B2=4.26 1959DLb (50723)2549
***************************
                Lysine CAS 56-87-1 (41)
2,6-Diaminohexanoic acid; H2N.(CH2)4.CH(NH2)COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ vlt NaClO4 25°C 1.0M C
                                 1999VKc (50798)2550
                        B(ZnLA)=4.71
                        B(ZnLA2) = 7.26
                        B(ZnL2A)=9.80
Method: polarography. Medium pH: 8.5. A is 4-picoline.
______
    gl NaClO4 25°C 1.0M U M
                                 1995KDa (50799)2551
Zn++
                        K(Zn+HL)=3.85
                        K(Zn+2HL)=6.73
                        K(Zn+3HL)=9.30
                        K(Zn+HL+A)=6.07
Method: polarography. Medium pH 8.50. K(Zn+HL+2A)=8.37, K(Zn+2HL+A)=9.77.
```

Zn++	gl	NaC104	25°C	0.10M	2	B2=9.02 B(ZnHL)=14.80 B(ZnH2L2)=29.29 B(ZnHL2)=20.22	1987LMa	(5080	00)2552
Zn++	gl	NaC1	37°C	0.15M	J	B(ZnHL)=14.307 B(ZnH2L2)=28.34 B(ZnH-1L)=-2.06	1985CFb	(5086	1)2553
 Zn++	gl	NaClO4	37°C	0.15M	2	B(ZnHL)=14.386 B(ZnHL2)=19.844 B(ZnH2L2)=28.50	1982BKc	(5086	2)2554
 Zn++	gl	NaC104	37°C	0.15M		B(ZnHL)=14.386 B(ZnHL2)=19.844 B(ZnH2L2)=28.503	1981ABa	(5086	3)2555
B(ZnL(His)))=11	.075; B	(ZnHL(His))=	20.328				
			` 						
						K1=6.32 B(ZnHL)=14.72 B(ZnH2L2)=28.85 B(ZnHL2)=19.67	1981FGb	(5086	04)2556
Zn++ Zn++ Zn++	gl gl	KCl KCl	25°C	0.20M		B(ZnHL)=14.72 B(ZnH2L2)=28.85 B(ZnHL2)=19.67	1981FGb		
Zn++ Zn++ Zn++ Medium: 0.	gl gl .005	KCl KCl oth/un ZnSO4	25°C	0.20M	 : 	B(ZnHL)=14.72 B(ZnH2L2)=28.85 B(ZnHL2)=19.67	 1953PEa	 (5080	 05)2557
Zn++ Zn++ Medium: 0. Zn++ *******	gl .005; gl *****	KCl oth/un ZnSO4 oth/un oth/un	25°C 20°C 20°C ******	0.20M .005M .001M .******	 J J ******	B(ZnHL)=14.72 B(ZnH2L2)=28.85 B(ZnHL2)=19.67 B2=7.3	1953PEa 1953PEa 1952ALa ******	 (5086 (5086 *****	05)2557 05)2557 06)2558 ******
Zn++ Zn++ Medium: 0; Zn++ ********************************	gl .005 : gl *****	KCl oth/un ZnSO4 oth/un ******	25°C 20°C 20°C ****** HL nexand	0.20M 0.05M 0.01M 0.01M 5-Hy	J ********	B(ZnHL)=14.72 B(ZnH2L2)=28.85 B(ZnHL2)=19.67 B2=7.3 B2=7.6 ************************************	1953PEa 1953PEa 1952ALa ****** 98-3 (1 12.CH(NH	 (5086 (5086 ***** 585) 2).COO	05)2557 06)2558 ******
Zn++ Zn++ Medium: 0. Zn++ ******** C6H14N2O3 2,6-Diamir Metal	gl .005; ***** mo-5- Mtd	oth/un ZnSO4 oth/un ****** hydroxyl Medium	25°C 20°C 20°C ***** HL nexanc Temp 25°C	0.20M .005M .005M .***** 5-Hy .oic aci .Conc C.	J ******* droxylys d; H2N.(B(ZnHL)=14.72 B(ZnH2L2)=28.85 B(ZnHL2)=19.67 B2=7.3 B2=7.6 ************************************	1953PEa 1953PEa 1952ALa ******* 98-3 (1 12.CH(NH Refe	 (5080 (5080 ***** 585) 2).COO rence 65NCa	05)2557 05)2558 06)2558 06*******
Zn++ Zn++ Medium: 0 Zn++ ******** C6H14N2O3 2,6-Diamir Metal Zn++ ********************************	gl .005 ; gl ***** Mtd gl ****	KCl oth/un ZnSO4 oth/un ******* hydroxyl Medium NaClO4 ******	25°C 20°C 20°C ****** HL nexand Temp 25°C ******	0.20M (0.05M (0.01M (0.	droxyly: droxyly: d; H2N.(al Flag: J	B(ZnHL)=14.72 B(ZnH2L2)=28.85 B(ZnHL2)=19.67 B2=7.3 B2=7.3 B2=7.6 ************************************	1953PEa 1953PEa 1952ALa ******* 98-3 (1 H2.CH(NH Refe .75 19	 (5080 ****** 585) 2).COO rence 65NCa *****	05)2557 05)2558 06)2558 08******* 0H 0 ExptNo 0 (50869)25!
Zn++ Zn++ Medium: 0. Zn++ ********* C6H14N2O3 2,6-Diamir Metal Zn++ ********** C6H14N2S 1-Thia-4,7	gl .005 ; ***** mo-5- Mtd gl *****	oth/un ZnSO4 oth/un ****** hydroxyl Medium NaClO4 ******	25°C 20°C 20°C ***** HL nexanc Temp 25°C ****** L nonane	0.20M .005M .005M .****** 5-Hy .ic aci .Conc C.	droxylysd; H2N.(B(ZnHL)=14.72 B(ZnH2L2)=28.85 B(ZnHL2)=19.67 B2=7.3 B2=7.6 ************************************	1953PEa 1953PEa 1952ALa ******* 98-3 (1 12.CH(NH Refe .75 19 ******	 (5080 ****** 585) 2).COO rence 65NCa *****	05)2557 06)2558 06)2558 08******* 0H 0 ExptNo 0 (50869)25! 08*******

CAS 44981-30-8 (8526)

C6H14N4O

```
Aminoiminomethylcarbamimidic acid, 2-methylpropyl ester;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 20°C 0.10M U I K1=9.00 B2=12.50 1997IMb (50895)2562
Data for 0.05-0.20 M (20 C) and 25-40 C (I=0.01 M). At I=0, K1=9.70,
K2=3.95.
**********************************
C6H14N4O2
                          CAS 1071-93-8 (2563)
1,6-Hexanedioic acid dihydrazide; H2N.NH.CO.CH2.CH2.CH2.CH2.CO.NH.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl none 25°C 0.0 C I K1=2.449 B2= 3.31 1996RRb (50901)2563
                        B(ZnHL)=5.305
                        B(ZnHL2)=8.005
Data for 10-60% v/v DMF/H2O and dioxane/H2O. In 50% DMF/H2O, K1=1.905,
B(ZnHL)=4.982, B(ZnHL2)=8.081. In 50% dioxane/H20, K1=2.153, B2=3.567.
_____
Zn++ gl NaNO3 25°C 0.20M U K1=2.05 B2=3.82 1974FSa (50902)2564
******************************
C6H14N4O2
1,8-Diamino-3,6-diaza-2,7-octanedione; (H2N.CH2.CO.NH.CH2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=3.95 1969BMc (50924)2565
-----
Zn++ gl KCl 25°C 1.0M U K1=4.31 1953CGa (50925)2566
*******************************
                Arginine CAS 74-79-3 (40)
             HL
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
-----
Zn++
    vlt NaClO4 25°C 1.0M C
                     M K1=4.23 B2= 8.30 1997KKb (50980)2567
                        B3=11.23
                        B(ZnAL)=4.40
                        B(ZnA2L)=8.60
                        B(ZnAL2)=11.45
Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50.
______
Zn++ gl NaNO3 25°C 0.10M U K1=4.00 B2= 7.95 1991APa (50981)2568
-----
     gl NaClO4 37°C 0.15M C M K1=4.074 B2=7.883 1981ABb (50982)2569
B(ZnL(His))=10.005; B(ZnL(Cys))=13.652; B(ZnHL(Cys))=20.00
Zn++ gl KNO3 25°C 0.10M U K1=4.11 B2=8.07 1970CMc (50983)2570
_____
Zn++ gl oth/un 25°C ? U T K1=4.19 B2=8.12 1960PEd (50984)2571
```

```
17 C: K1=4.20, 3.99; 30 C: 4.17, 3.89; 35 C: 4.16, 3.84; 40 C: 4.14, 3.81
______
     gl oth/un 19°C 0.00 U B2=8.0
                             1953PEa (50985)2572
Medium: 0.005 ZnSO4
______
Zn++ gl oth/un 20°C 0.01M U B2=7.8 1952ALa (50986)2573
*********************************
C6H14N4O4S2
                          (6642)
Cystine dihydroxamic acid; HONH.CO.CH(NH2).CH2.SS.CH2.CH(NH2).CO.HNOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl
           25°C 0.20M C
                               1992FKa (51032)2574
                    B(ZnHL)=15.76
C6H14O2Si
                          (134)
3-(Trimethylsilyl)propanoic acid; (CH3)3Si.CH2.CH2.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ nmr NaNO3 35°C 0.10M U
                               1979MIa (51041)2575
                      K(Zn(phen)+L)=0.90
                      K(Zn(bpy)+L)=0.6
______
                    M K1=1.03 1979MIa (51042)2576
Zn++ gl NaNO3 35°C 0.10M U
                      B(Zn(phen)L)=7.3
                      B(Zn(bpy)L)=6.21
*******************************
                      CAS 36011-96-8 (4391)
            H4L
trans-1,2-Cyclohexanediol diphosphate; C6H10(OPO3H2)2
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl R4N.X 20°C 0.10M U K1=6.33 1969HRa (51114)2577
                      K(Zn+HL)=3.10
Medium: (C3H7)4NI
**********************************
C6H14O12P2
                      CAS 488-69-7 (3705)
           H4L
Fructose-1,6-diphosphoric acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl04 25°C 0.10M C K1=3.95 1996GCa (51120)2578
H4L
                        CAS 84364-89-6 (7140)
C6H14O12P2
Fructose-2,6-diphosphoric acid; C6H10O4.(H2PO4)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M C K1=4.48
                            1996GCa (51126)2579
```

```
Isopropyl sulfi CAS 625-80-9 (5674)
C6H14S
2,2'-Thiodipropane, diisopropyl sulfide; (CH3)2CH-S-CH(CH3)2
_____
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     ISE non-aq 25°C 100% U K1=-0.15
                              1986MMb (51134)2580
Medium: acetone, Bu4NClO4
**********************************
                        CAS 37007-11-7 (4353)
C6H15N
Diisopropylamine; ((CH3)2.CH)2.NH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
    ISE R4N.X 25°C 2.00M U
                      K1=2.41 B2=4.80 1969MPd (51145)2581
                      K3=2.59
                      K4=2.31
Medium: NH4NO3
*********************************
               Triethanolamine CAS 102-71-6 (447)
C6H15N03
Tris-(2-hydroxyethyl)amine;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaNO3 25°C 0.10M U K1=2.05 B2=3.28
                                 1984HNa (51260)2582
______
     gl KNO3 25°C 2.00M U
                      K1=2.56
                               1970URa (51261)2583
-----
Zn++ gl KNO3 25°C 0.50M U K1=2.00 1947BRa (51262)2584
****************************
                          (6891)
C6H15N06P2
Piperidine-N-Methylenedi(phosphonic acid); C5H10N.CH(PO3H2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
     gl KCl
           25°C 0.10M U
                      K1=9.47
                               1978GMf (51319)2585
                     K(Zn+HL)=6.80
CAS 126104-92-5 (8889)
C6H15N07P2
N-2-Methylenetetrahydrofuryloaminomethane-1,1-diphosphonic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 25°C 0.20M C
                       K1=11.08 B2=15.64 2002MKc (51340)2586
                      B(ZnH2L)=22.71
                      B(ZnHL)=19.00
                      B(ZnH-1L)=0.60
                      B(ZnH-2L)=-10.95
B(ZnH2L2)=35.61, B(Zn3H2L2)=45.03.
*******************************
```

```
C6H15NS
            HL
                         CAS 1942-52-5 (2595)
2-(Diethylamino)ethanethiol;(CH3.CH2)2N.CH2.CH2.SH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 20°C 0.10M U TI K1=9.61 B2=17.93 1986NDb (51350)2587
***********************************
                         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
_____
Zn++ gl NaClO4 25°C 0.10M U H K1=6.95 1996IFb (51366)2588
                      *K(ZnL)=-7.95
DH(K1)=-3.4 \text{ kJ mol}-1, DS(K1)=121.7 \text{ J K}-1 \text{ mol}-1.
-----
Zn++ cal KCl 25°C 0.10M C H 1976FMa (51367)2589
DH(K1)=-0.21 kJ mol-1, DS(K1)=130 J K-1 mol-1; DH(ZnL+OH)=-17.4,
DS(ZnL+OH)=54.
         -----
                      K1=6.90 1971CWa (51368)2590
Zn++ gl KCl 25°C 0.10M U
                      K(ZnL+OH)=5.85
______
Zn++ gl KCl 20°C 0.10M U
                               1962BSb (51369)2591
                      K(Zn+HL)=3.7
*******************************
                         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
_____
Zn++ gl NaClO4 25°C 0.20M M H K1=11.3 1978KKb (51392)2592
By polarography, K1=11.4. DH1=-29.2 kJ mol-1, DS=121 J K-1 mol-1
___________
Zn++ oth KNO3 25°C 0.10M U H
                              1977FZa (51393)2593
DH(K1)=-49.7 kJ mol-1; DS=55.2 J K-1 mol-1
______
Zn++ gl KNO3 25°C 0.10M M K1=11.62 1976YZa (51394)2594
______
Zn++ gl KNO3 25°C 0.10M U K1=11.6 1975DDa (51395)2595
-----
Zn++ gl KNO3 25°C 0.10M U K1=11.7 B2=21.70 1973AHc (51396)2596
*****************************
C6H15N302
                         CAS 52760-35-7 (6670)
Lysine hydroxamic acid; H2N.(CH2)4.CH(NH2)CO.NHOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      B2=12.5 2002ECa (51421)2597
Zn++ gl KCl 25°C 0.20M C
                      B(ZnHL)=15.49
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```
B(ZnH2L2)=30.83
B(ZnHL2)=22.24
B(ZnH-1L2)=2.4
```

```
B(ZnH-1L2)=2.4
*********************************
C6H15N302
              HL
                  DTMA
                            CAS 55682-20-7 (2334)
N,N-Bis(2-aminoethyl)glycine; (H2N.CH2.CH2)2N.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 25°C 0.10M C
                         K1=13.13
                                   1975MMe (51434)2598
                         K(ZnL+H)=4.20
                         K(ZnLOH+H)=9.89
**********************************
C6H15N3O3
                             (6613)
1,3,5-Triamino-1,3,5-trideoxy-cis-inositol,5-Amino-5-deoxy-streptamine;
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=8.40 B2=13.56 1992HGa (51444)2599
********************************
C6H1502PS2
                              (2059)
0,0'-Dipropyl dithiophosphoric acid; (C3H70)2P(S)SH
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
-----
      vlt mixed RT
                 50% C
                                   1986HSd (51483)2600
                         B3=2.57
Medium: 50% v/v DMF/H20. Method: polarography.
*******************************
                 CAS 25134-38-7 (4401)
             HL
C6H1502PS2
Phosphorodithioic acid 0,0-diisopropyl ester; (CH3.CH(CH3)0)2PS.SH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++
      cal oth/un ? ? U
                       М
                                   1971DGb (51496)2601
                         K(2ZnL2=Zn2L4)=0.68
                         K(ZnL2+py)=3.54
                         K(ZnL2(py)+py)=0.83
Medium: benzene
**********************************
                  Ins(1,2,6)P3
                           CAS 28841-62-5 (6479)
C6H15O15P3
             H6L
D-myo-Inositol 1,2,6-trisphosphoric acid;
 Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl oth/un 25°C 0.10M C
                          K1=7.58
                                   2001FSb (51528)2602
                         B(ZnHL)=14.72
                         B(ZnH-1L)=-1.41
                         B(Zn2HLA)=35.75
                         K(Zn2H3LA) = 50.15
```

```
Medium: tetramethylammonium p-toluenesulfonate, 0.10 M. A is spermine.
Also constants for reactions HnL+HmA.
**********************************
                             CAS 22689-71-0 (4395)
P,P-Dipropylphosphinodithioic acid; (CH3.CH2.CH2)2.PS.SH
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      vlt alc/w ? 90% U
                          B2=6.5
                                   1972TCa (51552)2603
Medium: 90% EtOH, 0.15 M NaClO4
**********************************
C6H16N04P
                             CAS 387383-55-3 (8776)
N,N,N-Trimethyl-2-(phosphonomethoxy)ethylamine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaNO3 25°C 0.10M M K1=2.03 2002FGb (51568)2604
*******************************
                             CAS 20485-44-3 (3667)
2,3-Dimethyl-2,3-diaminobutane; (CH3)2.C(NH2).C(NH2)(CH3)2
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
gl oth/un 20°C 1.0M U TI B2=13.20
                                   1968P0a (51591)2605
At 0 C:B2=14.08(I=0.1),14.80(0.5),15.20(1); 10 C:B2=13.30(I=0.1),14.02(0.5),
14.30(1); 20 C:B2=12.24(0.1),12.95(0.5) and 30 C. DH(B2)=6.1(?) kJ mol-1
********************************
C6H16N2O2
                             CAS 3197-06-6 (7963)
2-Amino-N,N-bis(2-hydroxyethyl)ethylamine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaCl 25°C 0.16M U
                         K1=5.42
                                   2001SRa (51674)2606
                          K(Zn+HL)<2
                          *K(ZnL)=-7.61
                          *K(ZnH-1L)=-8.88
                          *K(ZnH-2L)=-10.8
*********************************
                            CAS 93798-65-3 (3119)
3,6-Diaza-1,8-dihydroxyoctane; HO.CH2.CH2.NH.CH2.CH2.NH.CH2.CH2.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.50M U K1=4.79 B2=9.1 1960HDa (51684)2607
**********************************
C6H16N2O4P2
             H2L
                              (6466)
Piperazine-1,4-diylbis(methylene)bis(phosphinic acid); H2O2P.CH2.C4H8N2.CH2.PO2H2
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl NaClO4 25°C 0.10M C
Zn++
                       K1=1.49
                               1992LBa (51706)2608
                        B(ZnHL)=8.31
*********************************
C6H16N2S
                            (6464)
5-Thia-2,8-diazanonane;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=4.6 1992WLb (51738)2609
********************
                            (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
______
Zn++ gl NaClO4 25°C 0.10M U K1=4.96 B2=9.06 1977ASg (51753)2610
CAS 2039-96-5 (133)
C6H16O3SSi
3-(Trimethylsilyl)propane sulfonic acid; (CH3)3Si.CH2.CH2.CH2.HS03
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     nmr NaNO3 35°C 0.10M U I M
Zn++
                                 1979MIa (51779)2611
                        K(Zn(bpy)+L)=0.45
                        K(Zn(phen)+L)=0.77
*********************************
            H4L
C6H16O6P2
                           CAS 4721-22-6 (3708)
Hexane-1,6-diphosphonic acid; H2O3P(CH2)6PO3H2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M U
                                 1967KLa (51787)2612
                        K(Zn+HL)=7.34
                        B(Zn2L)=14.73
                        K(2Zn+HL)=10.31
********************************
C6H17N06P2
            H4L
                          CAS 71066-28-9 (8887)
N-(3-Methylbutyl)aminomethane-1,1-diphosphonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 25°C 0.20M C
                        K1=10.44
                                 2002MKc (51800)2613
                        B(ZnH2L)=23.75
                        B(ZnHL)=19.39
                        B(ZnH-1L)=0.29
                        B(ZnH-2L)=-11.55
B(ZnH2L2)=36.79, B(ZnHL2)=26.07, B(Zn4H3L3)=69.84.
***********************************
C6H17N06P2
                           CAS 71066-29-0 (8886)
N-Pentylaminomethane-1,1-diphosphonic acid;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KCl
            25°C 0.20M C
                        K1=10.55
                                 2002MKc (51804)2614
                        B(ZnH2L)=23.79
                        B(ZnHL)=19.13
                        B(ZnH-1L)=0.64
                        B(ZnH-2L)=-9.85
B(ZnH2L2)=36.53, B(ZnHL2)=26.31, B(Zn4H3L3)=69.23.
*******************************
N,N,N'-Trimethyldiaminoethane-N'-methylphosphonic acid;
(CH3)2N.CH2CH2.N(CH3)CH2P03H2
___________
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C
                       K1=8.41
                                2001DSa (51817)2615
                       K(ZnL+H)=4.7
                       K(ZnL+OH)=4.7
                   K1=8.41 2001DSa (51818)2616
Zn++ gl KNO3 25°C 0.10M C
                       K(ZnL+H)=4.7
                       K(Zn+OH)=4.7
******************************
C6H17N3
                          CAS 54473-27-7 (171)
1,1,1-Tris(aminomethyl)propane; (H2N.CH2)3C.CH2.CH3
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
           25°C 0.50M C H
      cal KNO3
                                 1980SVa (51835)2617
DH1=-22.7 kJ mol-1,DS1=55.6, DH(K2)=-20.9,DS2=13, also ZnHL,Zn(OH)L,Zn(OH)2L
_____
   gl KNO3 25°C 0.50M C K1=6.899 B2=11.25 1977MSc (51836)2618
***********************
                          CAS 35513-87-2 (292)
C6H17N3
1,4,9-Triazanonane, 3-Azaheptane-1,7-diamine; H2NCH2CH2NHCH2CH2CH2NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 25°C 0.50M C
                        K1=6.34 B2=10.46 1975BPd (51847)2619
                        K(ZnL+OH)=5.48
                        K(ZnL+2(OH))=8.29
                        K(Zn+HL)=4.36
                        K(Zn+2HL)=8.31
*******************************
                          CAS 56-18-8 (968)
C6H17N3
1,5,9-Triazanonane, 4-azaheptane-1,7-diamine; H2N.CH2.CH2.CH2.NH.CH2.CH2.CH2.NH2
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl NaClO4 25°C 0.10M U H K1=7.94
Zn++
                                1996IFb (51882)2620
                         *K(ZnL) = -8.58
DH(K1) = -22.0 \text{ kJ mol} -1, DS(K1) = 77.8 \text{ J K} -1 \text{ mol} -1.
     gl NaClO4 20°C 0.10M U
                                   1991WBa (51883)2621
                      B(ZnHL2)=22.83
______
    gl KNO3 40°C 1.00M C T H K1=8.14
                                   1974DFa (51884)2622
                         K(ZnL+OH)=5.38
DH(K1)=-5.8, DH(ZnLOH)=-4.7 kJ mol-1 (40 C). At 25 C: K1=8.36 (8.38 by
polarography), K(ZnL+OH)=5.57
______
Zn++ gl KNO3 25°C 0.10M U K1=6.6 B2=10.30 1973AHc (51885)2623
______
Zn++ cal KCl 25°C 0.10M U H
                                  1966PNa (51886)2624
DH(K1)=-22.6 kJ mol-1, DS=75 J K-1 mol-1; DH(ZnL+OH)=-15.9, DS=47
_____
      gl KCl 25°C 0.10M U
                         K1=7.92
                                  1966VAa (51887)2625
                        K(ZnL+OH)=5.2
*********************************
                           CAS 58145-14-5 (7964)
2-Hydroxy-N,N-bis(2-aminoethyl)ethylamine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                         K1=9.55
Zn++ gl NaCl 25°C 0.16M U
                                  2001SRa (51922)2626
                         K(Zn+H2L)<2
                         K(Zn+HL)<5
                         *K(ZnL)=-8.19
                         *K(ZnH-1L)=-11.0
-----
Zn++ gl KNO3 25°C 0.10M U
                         K1=8.34 1998XKb (51923)2627
                         B(ZnH-1L)=0.38
                         B(ZnH-2L)=-9.19
********************************
C6H18N2O4P2
             H2L
                             (7261)
1,2-Diaminoethane-N,N'-bis-(dimethylenemethylphosphinic acid); (CH2NHCH2PO(OH)CH3)2
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl R4N.X 25°C 0.10M M K1=7.64
                                  1996BCa (51927)2628
Medium: 0.1 M Me4NNO3.
************************************
             H4L
C6H18N2O6P2
N,N'-Dimethyldiaminoethane-N,N'-dimethylphosphonic acid;
CH3N(CH2PO3H2).CH2.CH2.N(CH2.PO3H2)CH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=13.07 2001DSa (51941)2629
```

						K(ZnL+H)=5.54 K(ZnL+OH)=3.0 K(ZnHL+H)=4.5		
	gl	KNO3		0.10M C	~~~~~	K1=13.07 K(ZnL+H)=5.54 K(ZnHL+H)=4.5 K(ZnL+OH)=3.0 *******		(51942)2630
C6H18N2O6P	2 yldia	aminoeth	H4L hane-N	N',N'-dim		(7487) diphosphonic aci		· · · · · · · · · · · · · · · · · · ·
Metal	Mtd	Medium	Temp	Conc Cal	Flag	s Lg K values	Refer	rence ExptNo
Zn++	gl	KNO3	25°C	0.10M C		K1=15.04 K(ZnL+H)=5.42 K(ZnL+OH)=1.7 K(ZnHL+H)=3.5	2001DSa	(51961)2631
Zn++	gl	KNO3	25°C	0.10M C		K1=15.04 K(ZnL+H)=5.42 K(ZnHL+H)=3.5 K(ZnL+OH)=1.7	2001DSa	(51962)2632
C6H18N4		******	***** L			****************		******
	etraa	azadecar	ne; H2			mine CAS 112-24 CH2.CH2.NH.CH2.CI		
Metal				2N.CH2.CH	2.NH.(H2.NH2	rence ExptNo
	Mtd		Temp	2N.CH2.CH	2.NH.(CH2.CH2.NH.CH2.CI	H2.NH2 Refer	rence ExptNo (52049)2633
Metal	Mtd Mtd gl	Medium KCl	Temp 25°C	2N.CH2.CH Conc Cal 0.20M C	2.NH.(CH2.CH2.NH.CH2.CI	H2.NH2 Refer 2002KKa	
Metal Zn++	Mtd gl gl	Medium KCl NaClO4	Temp 25°C	2N.CH2.CH Conc Cal 0.20M C	2.NH.(CH2.CH2.NH.CH2.CI	H2.NH2 Refer 2002KKa 1996IFb	(52049)2633 (52050)2634 (52051)2635
Metal Zn++ Zn++ Zn++ Zn++	Mtd gl gl gl	Medium KC1 NaC104 NaC1	Temp 25°C 25°C 25°C	2N.CH2.CH Conc Cal 0.20M C	2.NH.(CH2.CH2.NH.CH2.CI	H2.NH2 Refer 2002KKa 1996IFb	(52049)2633 (52050)2634 (52051)2635
Metal Zn++ Zn++ Zn++ Zn++ Zn++	Mtd gl gl gl gl etry	Medium KC1 NaC104 NaC1 KNO3	25°C 25°C 25°C	2N.CH2.CH Conc Cal 0.20M C 0.10M U 0.15M U	2.NH.(CH2.CH2.NH.CH2.CI	1982ABc	(52049)2633 (52050)2634 (52051)2635 (52052)2636

```
Zn++ gl diox/w 25°C 50% C K1=12.05 B2=18.95 1979MPe (52054)2638
Medium: 50% v/v dioxan/H20, 0.1 M KNO3. By calorimetry: DH(K1)=-29.7
kJ mol-1, DS=131 J K-1 mol-1. DH(K2)=-30.4.
______
Zn++ gl alc/w 25°C 65% U I K1=12.26 1972RBa (52055)2639
Medium: 40-99% MeOH, 0.1 M NaClO4. K1(40%)=12.94; K1(99%)=14.61
______
Zn++ cal KNO3 25°C 0.10M U H
                              1965WHa (52056)2640
DH(K1)=-34.7 kJ mol-1, DS=112.9 J K-1 mol-1
______
  cal KCl 25°C 0.10M U H
                              1961SPb (52057)2641
DG(K1)=-68.06 kJ mol-1, DH=-37.2, DS=105 J K-1 mol-1
______
Zn++ gl KCl 25°C 0.10M U K1=11.9
                              1957RSb (52058)2642
Zn++ gl KNO3 35°C 1.0M U H
                              1952JHa (52059)2643
Medium: 1 M (KNO3+KCl). DH(K1)=-16.7 kJ mol-1
______
Zn++ gl oth/un 30°C 1.0M U T K1=11.94
                             1952JHa (52060)2644
40 C: K1=11.81
Zn++ gl KCl 20°C 0.10M U K1=12.1
K(Zn+HL)=7.3
______
                     K1=12.1 1950SCa (52061)2645
************************
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
______
     gl NaClO4 25°C 0.10M U
                              1996IFb (52166)2646
                     *K(ZnL) = -9.87
------
     gl NaCl04 25°C 1.0M U T H K1=15.20 1995CXa (52167)2647
                      *K(ZnL(H2O))=-10.68
Data for 35 and 45 C. By calorimetry, DH(*K1)=46.0 \text{ kJ mol-1}, DS(*K1)=-51
J K-1 mol-1.
Zn++ gl NaCl04 25°C 1.00M C K1=15.00 1994AGa (52168)2648
______
Zn++ gl oth/un 25°C 0.10M C K1=14.5 1982MMb (52169)2649
______
Zn++ gl R4N.X 25°C 0.10M C K1=14.40 1975JTa (52170)2650
______
Zn++ nmr oth/un 25°C 0.50M U M K1=14.53 1973RBb (52171)2651
                     K(ZnL+en)=1.15
                      K(ZnL+Gly)=1.00
                      K(ZnL+OH)=2.90
 -----
Zn++ oth KNO3 20°C 0.10M U K1=13.76 1971AWa (52172)2652
______
```

Zn++ DG(K1)=-82					Н S=84 J	K-1 r	nol-1	1960	PCa	(52173)2653
Zn++ ************ C6H19N2O9P N-Methylet	**** 3	******	***** H6L	******	*****	*****	******** (8063)	*****	***	(52174)2654 ************************************
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K	values	Re	efer	rence ExptNo
	gl	KNO3	25°C	0.10M C		K(ZnL⊣ K(ZnH2 K(ZnHl	3.01 +H)=5.95 2L+H)=3.90 L+H)=4.94 3L+H)=2.9)Sa	(52233)2655
K(ZnL+OH)=	1.9									
Zn++	gl	KNO3	25°C	0.10M C		K(ZnL⊣ K(ZnHl K(ZnH2	3.01 +H)=5.95 L+H)=4.94 2L+H)=3.90 3L+H)=2.9		OSa	(52234)2656
K(ZnL+OH)=						,	·			
**************************************		*****	***** H4L	******	*****		******** CAS 938-16			**********
Ethylenedi		etetra(r		Lenephospl	nonous			J-J (-	+402	<u>-</u>)
Metal	Mtd	Medium	Temp	Conc Cal	Flags		values	Re	efer	rence ExptNo
Zn++										(52245)2657
**************************************	P4		H8L	EDTPA		(CAS 1429-5	50-1	(434	•
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K	values	Re	efer	rence ExptNo
Zn++	gl	KNO3	25°C	0.10M C		K (ZnH2 K (ZnHl	9.1 +H)=8.22 2L+H)=4.9 ² L+H)=5.92 3L+H)=4.1)Sa	(52285)2658
K(ZnL+OH)=	1.7									
Zn++	gl	KNO3	25°C	0.10M C		K (ZnHl K (ZnH2	9.1 +H)=8.22 L+H)=5.92 2L+H)=4.94 3L+H)=4.1)Sa	(52286)2659
K(ZnL+OH)=	1.7									
			 -			- -			- -	

Zn++	gl	NaC1	37°C	0.15M C	K1=13.16 K(ZnL+H)=9.09 K(ZnH2L+H)=5.17 K(ZnHL+H)=6.76 K(ZnH3L+H)=4.30	
Zn++	gl	KNO3	25°C	0.10M C	K1=18.76 K(ZnL+H)=8.31 K(ZnHL+H)=6.06 K(ZnH2L+H)=4.99 K(ZnH3L+H)=3.10	
Zn++	gl	oth/un	25°C	0.10M U	K(ZnL+H)=8.34 K(ZnHL+H)=6.05 K(ZnH2L+H)=4.93 K(ZnH3L+H)=4.46	
Zn++	gl	KC1	25°C	0.10M U	K1=17.05 K(Zn+HL)=13.52 K(Zn+H2L)=9.90 K(Zn+H3L)=6.99 K(Zn+H4L)=4.73	1967KDa (52290)2663
K(Zn+H5L):			*****	******	· ·**************	******
C7H4N2O6 3,5-Dinit	rosal	icylald	HL ehyde j	; HO.C6H2(CAS 2460-5 NO2)2.CHO	9-5 (3139)
			ehyde :		NO2)2.CHO	9-5 (3139) Reference ExptNo
3,5-Diniton Metal Zn++	Mtd Mtd sp	Medium NaClO4	ehyde Temp 25°C	Conc Cal	NO2)2.CHO Flags Lg K valuesK1=0.75	Reference ExptNo
3,5-Dinituments Metal Zn++ **********************************	 Mtd sp ****	Medium NaCl04 *****	ehyde; Temp 25°C *****	Conc Cal	NO2)2.CHO Flags Lg K valuesK1=0.75	Reference ExptNo 1966PMa (52395)2664 *****
3,5-Diniti Metal Zn++ **********************************	Mtd sp *****	Medium NaClO4 *******	ehyde; Temp 25°C ***** H2L acid;	Conc Cal 0.10M U ********	NO2)2.CHO Flags Lg K values K1=0.75 ************************************	Reference ExptNo 1966PMa (52395)2664 ***********************************
3,5-Dinit	Mtd sp ***** rosal Mtd	Medium NaClO4 ****** icylic a	ehyde Temp 25°C ***** H2L acid; 	Conc Cal 0.10M U ******* (02N)2.C6	NO2)2.CHO Flags Lg K values K1=0.75 ********* CAS 609-99 6H2(OH).COOH Flags Lg K values	Reference ExptNo 1966PMa (52395)2664 ***********************************
3,5-Diniti Metal Zn++ ********** C7H4N2O7 3,5-Diniti Metal Zn++	Mtd sp ***** ^osal Mtd gl	Medium NaClO4 ****** icylic a Medium NaClO4	ehyde; Temp 25°C ***** H2L acid; Temp 30°C	Conc Cal 0.10M U ****** (02N)2.C6 Conc Cal 0.10M U	K1=0.75 ************** CAS 609-99 SH2(OH).COOH Flags Lg K values K1=3.32	Reference ExptNo 1966PMa (52395)2664 ************* -4 (400) Reference ExptNo 1975JKa (52448)2665 1972JKa (52449)2666
3,5-Diniti Metal 2n++ **********************************	Mtd sp ***** ^osal Mtd gl EMF	Medium NaClO4 ****** icylic a Medium NaClO4 NaClO4	ehyde: Temp 25°C ***** H2L acid; 30°C 30°C	Conc Cal 0.10M U ******* (O2N)2.C6 Conc Cal 0.10M U 0.10M U	K1=0.75 ************* CAS 609-99 GH2(OH).COOH Flags Lg K values K1=3.32 K1=3.32	Reference ExptNo 1966PMa (52395)2664 ************* -4 (400) Reference ExptNo 1975JKa (52448)2665 1972JKa (52449)2666
3,5-Dinition Metal Xn++ ************* C7H4N2O7 3,5-Dinition Metal Zn++ Zn++ Zn++ **********************************	Mtd sp ***** rosal Mtd gl EMF gl ****	Medium NaClO4 ****** icylic a Medium NaClO4 NaClO4 KNO3 ******	ehyde; Temp 25°C ***** H2L acid; Temp 30°C 35°C *****	Conc Cal 0.10M U ******* (02N)2.C6 Conc Cal 0.10M U 0.10M U 0.10M U ********	K1=0.75 ************* CAS 609-99 GH2(OH).COOH Flags Lg K values K1=3.32 K1=3.32	Reference ExptNo 1966PMa (52395)2664 ************* -4 (400) Reference ExptNo 1975JKa (52448)2665 1972JKa (52449)2666 1970DDa (52450)2667 ***********************************
3,5-Diniti Metal 2n++ **********************************	Mtd sp ***** rosal Mtd gl EMF gl *****	Medium NaClO4 ****** icylic a Medium NaClO4 NaClO4 NaClO4 NaClO4 NaClO4 NaClO4 NaClO4 NaClO4	ehyde: Temp 25°C ***** H2L acid; 30°C 35°C ***** H2L acid;	Conc Cal 0.10M U ******* (O2N)2.C6 Conc Cal 0.10M U 0.10M U ********** C6H2(OH)(Flags Lg K values K1=0.75 ********** CAS 609-99 SH2(OH).COOH Flags Lg K values K1=3.32 K1=3.32 K1=3.70 ***********************************	Reference ExptNo 1966PMa (52395)2664 ************* -4 (400) Reference ExptNo 1975JKa (52448)2665 1972JKa (52449)2666 1970DDa (52450)2667 *************************** 5-5 (1116)

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CAS 320-72-9 (1117)
C7H4O3C12
            H2L
3,5-Dichlorosalicylic acid; C6H2(OH)(C1)2.COOH
_____
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaClO4 30°C 0.10M U T K1=5.47 1975JKa (52552)2669
********************************
                Meconic acid CAS 497-59-6 (3723)
            H3L
3-Hydroxy-4-pyrone-2,6-dicarboxylic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 0.50M U K1=7.25 1967CBb (52562)2670
*******************************
C7H5NOS
            HL
                         CAS 7405-23-4 (3177)
4-Hydroxybenzothiazole;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=6.90 B2=12.82 1960FFa (52587)2671
*******************************
C7H5N04
            H2L Quinolinic acid CAS 89-00-9 (567)
2,3-Pyridinedicarboxylic acid; C5H3N.(COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaCl04 30°C 0.10M U M K1=4.82 B2=8.57 1979SJb (52614)2672
                       K(ZnL+Aspartate)=7.92
                       K(ZnL+Glutamate)=6.58
                       K(ZnL+Thiomalate)=4.56
                       K(ZnL+Thiodiglycolate)=4.16
Zn++ gl KNO3 25°C 0.10M U K1=4.8 B2=8.5 1958YYa (52615)2673
***********************
C7H5NO4
            H2L
                         CAS 499-80-9 (566)
2,4-Pyridinedicarboxylic acid; C5H3N.(COOH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Zn++ gl NaClO4 30°C 0.10M U
                     M K1=7.02 B2=13.02 1979SJb (52643)2674
                       K(ZnL+Aspartate)=7.94
                       K(ZnL+Thiomalate)=4.90
                       K(ZnL+Glutamate)=7.11
                       K(ZnL+Thiodiglycolate)=4.01
Zn++ gl KNO3 25°C 0.10M U K1=5.0 B2=8.8 1958YYa (52644)2675
CAS 100-26-5 (2528)
2,5-Pyridinedicarboxylic acid, Isocinchomeronic acid; C5H3N.(COOH)2
______
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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 20°C 0.10M U T H K1=4.33 B2=7.68 1983PSd (52662)2676
30 C: K1=4.22, K2=3.26; 40 C: K1=4.13, K2=3.19
********************************
                 Dipicolinic aci CAS 449-83-2 (418)
             H2L
2,6-Pyridinedicarboxylic acid; C5H3N.(COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 35°C 0.10M C M K1=4.78 1999DSb (52722)2677
                        B(ZnAL)=8.61
A is thiamine hydrochloride.
______
Zn++ gl KNO3 25°C 0.10M M M K1=5.63 1996AEa (52723)2678
Data for ternary complexes with aspartic acid, serine, asparagine and
N-(2-acetamido)iminodiacetic acid
______
Zn++ gl NaClO4 25°C 0.20M M M
                                  1996VBa (52724)2679
                         K(Zn(ala)+L)=4.60
                         K(Zn(phe)+L)=4.32
                         K(Zn(tyr)+L)=4.34
                         K(Zn(trp)+L)=4.39
K(Zn(gly-gly)+L)=2.99, K(Zn(gly-ala)+L)=3.06, K(Zn(en)+L)=5.00.
-----
Zn++ gl KCl 25°C 1.00M C M K1=6.43 B2=12.46 1984SMc (52725)2680
Ternary complexes with 2-amino-3-phosphonopropionic acid (APP) and pyridoxal
-5'-phosphate- APP Schiff base.
______
Zn++ gl NaNO3 20°C 0.10M U K1=6.35 B2=11.88 1960ANb (52726)2681
______
Zn++ gl KCl 30°C 0.10M U K1=7.0 B2=13.0 1957TBb (52727)2682
*****************************
                       CAS 62-23-7 (489)
4-Nitrobenzoic acid; O2N.C6H4.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U M K1=1.83 1968GPd (52902)2683
                        K(Zn(bpy)+L)=1.86
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
                           CAS 97-51-8 (1887)
C7H5N04
5-Nitrosalicylaldehyde; O2N.C6H3(OH).CHO
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U T K1=3.27 B2=5.96 1973CGc (52932)2684
Medium: 50% dioxan, 0.3 M NaClO4. Temperature range 15-50 C
K1(15 C)=3.34, K1(50 C)=3.03, K2(15 C)=2.80, K2(50 C)=2.55
```

```
Zn++ sp NaCl04 25°C 0.10M U K1=2.01
                               1966PMa (52933)2685
**********************************
C7H5N04S2
                          (3178)
           H2L
4-Hydroxybenzothiazole-7-sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% U K1=6.1 B2=10.4 1962FFa (52947)2686
***********************
               Nitrosalicylic CAS 85-38-1 (1416)
            H2L
2-Hydroxy-3-nitrobenzoic acid; HO.C6H3(NO2).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
    gl NaClO4 30°C 0.10M U T K1=5.73
                              1975JKa (52966)2687
-
------
Zn++ EMF NaCl04 30°C 0.10M U K1=5.73 1972JKa (52967)2688
*******************************
               Nitrosalicylic CAS 96-97-9 (148)
C7H5NO5
           H2L
2-Hydroxy-5-nitrobenzoic acid; HO.C6H3(NO2).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaClO4 35°C 0.10M U K1=5.12 B2=8.37 1980ABb (53026)2689
______
Zn++ gl NaClO4 30°C 0.10M U K1=5.38 1975JKa (53027)2690
Zn++ oth oth/un 30°C 0.10M U K1=6.65 B2=12.90 1972KAd (53028)2691
********************************
                         CAS 499-51-4 (3150)
4-Hydroxypyridine-2,6-dicarboxylic acid; HO.C5H2N(COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                      K1=9.3
Zn++
     gl oth/un 20°C 0.10M U
                            B2=17.8 1963ANd (53067)2692
                      K(ZnL+H)=5.52
                      K(ZnL2+H)=5.81
                      K(ZnHL2+H)=5.11
*******************************
                         CAS 149-30-3 (3752)
C7H5NS2
2-Mercaptobenzo-1,3-thiazole;
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ dis NaClO4 20°C 0.10M U K1=3.25 B2=5.74 1968NLc (53084)2693
****************************
C7H502Br
                        CAS 4584-68-3 (2691)
3-Bromotropolone;
 ______
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 30°C 50% U K1=6.9 B2=12.7 1954BFd (53111)2694
****************************
                          CAS 1761-61-1 (1886)
C7H5O2Br
5-Bromosalicylaldehyde; Br.C6H3(OH).CHO
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U T K1=3.81 B2=6.94 1973CGc (53129)2695
Medium: 50% dioxan, 0.3 M NaClO4. Temperature range 15-50 C
K1(15 C)=3.88, K1(50 C)=3.67, K2(15 C)=3.12, K2(50 C)=2.93
********************************
C7H502C1
                           (3747)
2-Hydroxy-6-chlorobenzaldehyde (6-chlorosalicylaldehyde)
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 30°C 75% U K1=5.33 1978RJa (53154)2696
CAS 535-80-8 (1368)
3-Chlorobenzoic acid; Cl.C6H4.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U M K1=1.99
                                 1968GPd (53171)2697
                       K(Zn(bpy)+L)=2.10
Medium: 75% dioxan, 0.1 M NaClO4
**********************************
             HL
C7H502C1
                          CAS 1927-94-2 (3143)
3-Chlorosalicylaldehyde; HO.C6H3(Cl).CHO
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 30°C 75% U K1=4.51 1978RJa (53185)2698
-----
Zn++ sp NaCl04 25°C 0.10M U K1=2.39 1966PMa (53186)2699
********************
                         CAS 635-93-8 (3145)
5-Chlorosalicylaldehyde; HO.C6H3(Cl).CHO
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl diox/w 25°C 50% U T
                        K1=3.65 B2=6.68
                                   1973CGc (53220)2700
Medium: 50% dioxan, 0.3 M NaClO4. Temperature range 15-50 C
K1(15 C)=3.77, K1(50 C)=3.38, K2(15 C)=3.08, K2(50 C)=2.97
********************************
C7H502I
                         CAS 60032-63-5 (6282)
5-Iodo-salicylahdehyde; I(OH)C6H3.CHO
```

Metal	Mtd Medium Temp Conc C	al Flags Lg K values	Reference ExptNo
	gl diox/w 30°C 75% V		
C7H5O3As 2-Arsenoso	HL benzoic acid;	CAS 5072	2-40-2 (8008)
Metal	Mtd Medium Temp Conc C	al Flags Lg K values	Reference ExptNo
Medium: 20	gl alc/w 35°C 20% (% EtOH/H2O, 0.1 M KNO3. *********		
C7H5O3Br		CAS 3883	
Metal	Mtd Medium Temp Conc C	al Flags Lg K values	Reference ExptNo
********* C7H5O3Cl	gl NaClO4 30°C 0.10M ************************************	**************************************	
Metal	Mtd Medium Temp Conc C	al Flags Lg K values	Reference ExptNo
C7H6N02C1	gl NaClO4 30°C 0.10M 0 ********* HL -hydroxybenzaldehyde ox	**************************************	**************************************
 Metal	Mtd Medium Temp Conc C	al Flags Lg K values	Reference ExptNo
Medium: 75	gl diox/w 20°C 75% V % dioxan, 0.1 M NaClO4 *********		=11.60 1965BEb (53385)27
C7H6NO3Br	H2L icylhydroxamic acid; Br	CAS 8735	3-69-3 (207)
Metal	Mtd Medium Temp Conc C	al Flags Lg K values	Reference ExptNo
	EMF diox/w 30°C 50% (% dioxan, 0.1 M NaClO4 *********		, ,
C7H6NO3Br	H2L icylhydroxamic acid; Br	CAS 5798	-94-7 (206)
Metal	Mtd Medium Temp Conc C		
 Zn++ Modium: 50	EMF diox/w 30°C 50% % dioxan, 0.1 M NaClO4		

```
C7H6N03C1
             H2L
                             (205)
3-Chlorosalicylhydroxamic acid; Cl.C6H3(OH).CO.NH.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ EMF diox/w 30°C 50% U K1=3.62 1977DJa (53413)2708
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
          L Benzimidazole CAS 51-17-2 (52)
Benzimidazole; C7H6N2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M C M K1=2.45 2000MSa (53456)2709
                         B(ZnAL)=8.78
                         B(ZnH-1AL)=1.85
                         B(Zn2A2L)=18.63
                         B(Zn2H-1A2L)=12.02
H2A is aspartic acid.
Zn++ gl KNO3 35°C 0.10M C M K1=2.40 1997PSb (53457)2710
                         K(ZnL+A)=7.18
H2A is thiamine orthophosphoric acid.
    vlt alc/w 25°C 20% U K1=1.78 B2=2.86 1979KBc (53458)2711
Zn++
                        K3=0.6
************************************
C7H6N20
                             (1926)
8-Hydroxyimidazo[1,2-a]-pyridine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% C K1=6.55 B2=12.04 1993YDa (53479)2712
In 50% v/v dioxan/water. Electrolyte: 0.1M KNO3.
********************************
                           CAS 26278-79-5 (3179)
C7H6N2OS
2-Amino-4-hydroxybenzothiazole;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=8.0 B2=15.4 1962FFa (53485)2713
*******************************
                            CAS 1595-15-9 (3754)
C7H6N2O4
              HL
2-Hydroxy-5-nitrobenzaldehyde oxime (5-nitrosalicylaldoxime)
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      gl diox/w 20°C 75% U K1=5.3 B2=10.90 1965BEb (53490)2714
Medium: 75% dioxan, 0.1 M NaClO4
**********************************
```

```
C7H6N2O4
             H2L
                            CAS 2683-49-0 (3753)
4-Aminopyridine-2,6-dicarboxylic acid (4-aminodipicolinic acid)
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 20°C 0.10M U K1=8.15 B2=16.05 1965ABa (53498)2715
*******************************
                            CAS 831-51-6 (208)
             H2L
5-Nitrosalicylhydroxamic acid; O2N.C6H3(OH).CO.NH.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      EMF diox/w 30°C 50% U K1=2.94 1977DJa (53520)2716
Medium: 50% dioxan, 0.1 M NaClO4
**********************************
              HL
                  Thiobenzoic CAS 98-91-9 (6294)
Thiobenzoic acid; C6H5.COSH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 30°C 60% U K1=5.4 B2=9.9 19720Tc (53553)2717
Medium: 60% v/v dioxan, 1 M (K,Na)NO3
*****************************
              HL Salicylaldehyde CAS 90-02-8 (193)
2-Hydroxybenzaldehyde, Salicylaldehyde; HO.C6H4.CHO
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 30°C 0.10M U M K1=2.93 1991RSc (53602)2718
                         B(Zn(val)L)=9.25
                         B(Zn(val)2L2)=15.10
                         B(Zn(phe)L)=9.15
                         B(Zn(phe)2L2)=15.05
Evidence for formation of Schiff base structure in ternary complexes.
B(Zn(trp)L)=9.15, B(Zn(trp)2L2)=15.10.
______
Zn++ gl diox/w 30°C 75% U K1=6.71 1978RJa (53603)2719
Zn++ gl KCl 25°C 0.50M U M
                                   1971LLa (53604)2720
                         B(ZnLA)=7.78
                         B(ZnL2A2)=14.9
                         B(ZnL(Ala))=9.56
                         B(ZnL(b-Ala))=8.40
B(ZnL(Gly))=9.65; B(ZnL2(Ala)2)=16.23; B(ZnL2(Gly)2)=16.73;
B(ZnL2(b-Ala)2)=16.20. A=ethylamine
                       M K1=2.87 B2=5.00 1968LBa (53605)2721
Zn++ gl KCl 25°C 0.50M U
                         B(ZnL(Gly))=9.65
                         B(ZnL(Gly)2)=13.42
                         B(ZnL2(Gly)2)=16.73
```

```
gl diox/w 30°C 75% U K1=6.26 1964JVa (53606)2722
Medium: 75% dioxan, 0.1 M NaClO4
______
Zn++ gl diox/w 25°C 50% U K1=4.50 B2=8.10 1947MMa (53607)2723
**********************************
          HL Tropolone CAS 533-75-5 (3129)
2-Hydroxycyclohepta-2,4,6-trien-1-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
   sp NaClO4 25°C 0.10M U K1=5.84 19680Wa (53654)2724
-----
Zn++ gl diox/w 30°C 50% U
                     K1=7.5 B2=14.0 1953BFa (53655)2725
                    K3 = 3.5
********************************
           HL Benzoic Acid CAS 65-85-0 (462)
Benzenecarboxylic acid; C6H5.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C I M K1=1.06 1985BSd (53798)2726
                     K(Zn(phen)+L)=0.95
In 50% dioxan: K1=2.27, K(Zn(phen)+L)=2.26. In 50% EtOH: K1=1.80, K=1.88
______
   gl NaClO4 25°C 0.00 U I K1=1.70 1979TPa (53799)2727
______
Zn++ gl KNO3 30°C 0.40M U K1=0.74 1970BTa (53800)2728
        Zn++ gl diox/w 25°C 50% U M K1=2.35 1968GPd (53801)2729
                     K(Zn(bpy)+L)=2.40
Medium: 50% dioxan, 0.1 M NaClO4
______
Zn++ gl oth/un 25°C 0.10M U K1=0.9 1960YYa (53802)2730
Thiosalicylic CAS 147-93-3 (236)
C7H602S
           H2L
2-Mercaptobenzoic acid; HS.C6H4.COOH
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                     K1=8.19
Zn++ gl alc/w 25°C 50% M T H
                              1992MSf (53892)2731
                     B(Zn(en)L)=12.65
Medium: 50% v/v MeOH/H2O, 0.10 M NaClO4. Data for 40 and 55 C.
DH(K1)=29.2 \text{ kJ mol-1}, DS(K1)=245 \text{ J K-1 mol-1}.
______
Zn++ gl diox/w 25°C 0.10M U K1=9.09 B2=17.10 1977WVa (53893)2732
_____
Zn++ gl diox/w 30°C 0.10M U K1=9.18 B2=19.52 1974AAa (53894)2733
_____
Zn++ gl alc/w 50°C 45% U T H K1=8.84 B2=15.22 1968RSh (53895)2734
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```
Medium: 45% EtOH, 0.15 M. K1=8.45(30 C), 8.60(40 C); K2=5.99(30 C), 6.20(40 C)
DH(K1)=27 kJ mol-1(25 C), DS=250 J K-1 mol-1; DH(K2)=38, DS=242
______
Zn++ gl alc/w 30°C 50% U K1=9.1 B2=20.30 1967KNa (53896)2735
Medium: 50% EtOH, 0.001 M NaClO4
***********************************
      H2L CAS 89677-36-1 (5448)
C7H602S2
3-(2-Thiophene)-2-mercaptopropenoic acid; C4H3S.CH:C(SH).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl diox/w 25°C 0.10M U K1=11.0 B2=19.82 1977WVa (53927)2736
CAS 95-01-2 (4407)
2,4-Dihydroxybenzaldehyde; (OH)2.C6H3.CHO
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=9.56 1978RJa (53937)2737
______
Zn++ gl diox/w 30°C 50% U
                                1969VMa (53938)2738
                       K(Zn+HL)=3.60
                       K(ZnHL+HL)=2.80
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
                Salicylic acid CAS 69-72-7 (14)
            H2L
2-Hydroxybenzoic acid, Salicylic acid; HO.C6H4.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     cal alc/w 25°C 100% U H
                                1990PJa (54097)2739
Medium: MeOH. DG(K1)=-28.0 kJ mol-1, DH=27; DG(B2)=-44.5; DH=42
_____
Zn++ gl alc/w 25°C 100% M
                                1988LTa (54098)2740
                       K(Zn+HL)=4.9
                       K(Zn+2HL)=7.8
Medium: MeOH
______
Zn++ gl NaNO3 35°C 0.10M U M T K1=7.10
                                1985KSc (54099)2741
                       K(ZnL+CMP)=1.61
H2CMP=cytidine-5'-monophosphoric acid
______
Zn++ gl KNO3 30°C 0.50M U M T K1=7.83
                                1981EKa (54100)2742
                       B(ZnHL2(pyridoxamine))=30.71
                       B(ZnH3L2(pyridoxamine))=46.71
                       B(ZnH4L2(pyridoxamine))=54.22
Zn++ gl NaClO4 30°C 0.10M U K1=8.86 1975JKa (54101)2743
-----
Zn++ gl diox/w 30°C 75% U K1=9.20
                              1964JVa (54102)2744
```

```
Medium: 75% dioxan, 0.1 M NaClO4
------
            20°C 0.10M U K1=6.85
     gl KCl
                               1958PEe (54103)2745
CAS 55927-33-8 (5445)
            H2L
3-Furyl-2-mercaptopropenoic acid; C4H3O.CH:C(SH).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 0.10M U K1=11.15 B2=20.55 1977WVa (54444)2746
*************************
           H3L Resorcylic acid CAS 89-86-1 (876)
2,4-Dihydroxybenzoic acid, b-Resorcylic acid; C6H3(OH)2.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl alc/w 25°C 50% M M K1=7.63
                                1983ADb (54509)2747
                       K(Zn(phen)+L)=7.36
Medium: 50% v/v EtOH/H2O, 0.10 M NaNO3.
______
      gl NaClO4 30°C 0.10M U
                       K1=10.34 1975JKa (54510)2748
                      B(ZnHL)=10.34
*********************************
                         CAS 409-79-9 (1115)
2,5-Dihydroxybenzoic acid; C6H3(OH)2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl04 30°C 0.10M U T K1=9.34 1975JKa (54577)2749
*********************************
                Protocatechuic CAS 99-50-3 (875)
            H3L
3,4-Dihydroxybenzoic acid; C6H3(OH)2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++
     gl NaClO4 25°C 0.20M M
                     M K1=8.913 B2=15.62 1994VBc (54646)2750
                       B(Zn(ala)L)=13.504
                       B(Zn(phe)L)=13.349
                       B(Zn(tyr)L)=13.466
                       B(Zn(trp)L)=13.712
B(Zn(gly-gly)L)=12.060, B(Zn(gly-ala)L)=12.125.
Zn++ gl NaNO3 30°C 0.10M U K1=8.13 B2=12.68 1968JHa (54647)2751
-----
Zn++ gl NaClO4 30°C 0.10M U K1=9.84 B2=17.39 1966APb (54648)2752
______
Zn++ gl KNO3 30°C 0.10M U K1=8.91 B2=15.62 1963MNc (54649)2753
*******************************
                Gallic acid CAS 149-91-7 (446)
            H4L
3,4,5-Trihydroxybenzoic acid; C6H2(OH)3.COOH
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     EMF KNO3 25°C 0.10M U
                               1985SCd (54743)2754
                       B(Zn2L)=11.4
Method: divalent cation liquid ion exchange electrode
*******************************
                         CAS 29848-93-9 (3151)
Salicylaldehyde-5-sulfonic acid; (5-Sulfosalicylaldehyde)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
           25°C 0.09M U I K1=2.88 B2=4.55 1972MSa (54793)2755
      gl KCl
Range of ionic strength 0-0.71. K1(I=0)=3.61, K1(I=0.71)=2.26, B2(I=0)=5.43,
B2(I=0.71)=4.15
-----
Zn++ gl oth/un 25°C 0.10M U K1=3.00 B2=5.4
                                 1948CMa (54794)2756
*******************************
                         CAS 5965-83-3 (399)
5-Sulfosalicylic acid, 2-Hydroxy-5-sulfobenzoic; HO3S.C6H3(OH).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    ISE NaCl04 25°C 1.0M U K1=6.69 B2=10.87 1968MNb (54915)2757
------
Zn++ gl KCl
           20°C 0.10M U K1=6.05 B2=10.7 1958PEe (54916)2758
*******************************
                          (5447)
C7H606S2
            H3L
3-(5-Sulfo-2-furyl)-2-mercaptopropenoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 0.10M U K1=10.61 B2=19.53 1977WVa (55088)2759 in water medium, K1=8.26, B2=15.22
***********************************
                         CAS 100-69-6 (299)
C7H7N
2-Vinylpyridine; C5H4N.CH:CH2
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=0.9 1974ILa (55113)2760
*******************************
                       CAS 100-43-6 (294)
4-Vinylpyridine; C5H4N.CH:CH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
      gl KNO3 25°C 0.10M U K1=1.6 1974ILa (55121)2761
***********************************
                         CAS 1112-62-9 (497)
C7H7N0
```

```
2-Acetylpyridine; C5H4N.CO.CH3
 -----
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ kin oth/un 25°C 0.10M C K1=1.55 1974C0a (55130)2762
**********************************
                      CAS 350-03-8 (1479)
C7H7NO
3-Acetylpyridine; C5H4N.CO.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 25°C 0.50M U K1=0.65 B2=1.40 1986BLa (55136)2763
CAS 1122-54-9 (494)
C7H7NO
4-Acetylpyridine; C5H4N.CO.CH3
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=0.90 B2=1.32 1983LRa (55144)2764
**************************
              Anthranilic CAS 118-92-3 (1589)
           HL
2-Aminobenzoic acid, Anthranilic acid; H2N.C6H4.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                   M K1=1.99 1989BBg (55193)2765
Zn++ gl KNO3 30°C 0.10M U
                     K(ZnA+L)=2.91
                     B(ZnAL)=11.45
H2A is 8-hydroxyquinoline-5-sulfonic acid.
------
     gl oth/un 25°C 0.0 U
Zn++
                             1960LUa (55194)2766
                    Kso = -9.75
______
     sp oth/un 25°C 0.0 U K1=2.57
                             1960LUb (55195)2767
-----
   gl diox/w 35°C 50% U K1=2.6 1958YSa (55196)2768
*********************************
              Salicylaldoxime CAS 94-67-7 (1486)
C7H7N02
           H2L
2-Hydroxybenzaldehyde oxime; HO.C6H4.CH:N.OH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
          25°C 0.10M C M K1=5.40 B2= 9.66 1990DAb (55295)2769
     gl KNO3
Also ternary complexes with bpy, ida, mida, ada and nta.
______
  gl KNO3 25°C 0.10M C K1=5.40 B2= 9.66 1990DAb (55296)2770
Zn++
      Zn++ gl diox/w 20°C 75% U
                             1965BEb (55297)2771
                     K(Zn+HL)=6.3
                     K(ZnHL+HL)=7.2(?)
```

```
Medium: 75% dioxan, 0.1 M NaClO4
-----
      gl alc/w 20°C 50% U
                                1959HOa (55298)2772
                      K(Zn+HL) < 5.2
**********************************
                Salicylamide CAS 65-45-2 (3155)
            HL
2-Hydroxybenzamide; HO.C6H4.CO.NH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 30°C 75% U K1=6.17 1964JVa (55324)2773
Medium: 75% dioxan, 0.1 M NaClO4
**********************************
          HL 2-Pyridylacetic CAS 16179-97-8 (2211)
2-Pyridylethanoic acid; C5H4N.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.50M U K1=2.16 B2=5.35 1971FLa (55343)2774
______
     gl diox/w 35°C 50% U T K1=4.33 B2=7.73 1966WRb (55344)2775
Medium: 50% dioxan, 0.1 M KNO3. K1=7.15(15 C), 6.41(35 C); K2=6.22(15 C),
5.36(25 C)
***********************
                         CAS 39825-16-6 (3756)
            HL
4-Methyl-2-nitrosophenol; CH3.C6H3(N:0).OH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% U K1=5.13 1961SHa (55403)2776
Medium: 50% dioxan, 0.1 M KNO3
************************
C7H7N02
                         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
______
Zn++ gl NaNO3 20°C 0.10M U K1=4.52 B2=8.27 1960ANb (55419)2777
CAS 495-18-1 (184)
Benzohydroxamic acid; C6H5.CO.NH.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 25°C 0.20M C K1=4.86 B2= 8.77 2000FEc (55475)2778
Zn++ gl NaNO3 25°C 0.10M M M K1=4.90 B2= 9.18 1996KSc (55476)2779
                       K(Zn(nta)+L)=3.40
                       K(Zn(ida)+L)=4.12
                       K(Zn(ada)+L)=3.97
```

```
H2ada: N-(2-acetamido)iminodiethanoic acid.
______
      gl diox/w 30°C 50% U K1=10.04 B2=18.11 1994JBb (55477)2780
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.
______
Zn++ gl KNO3 25°C 0.10M C M K1=4.85 B2= 8.50 1990DAc (55478)2781
Also ternary complexes with bpy, ida, mida, ada and nta.
-----
Zn++ gl KNO3 25°C 0.10M C K1=4.85 B2= 8.50 1990DAc (55479)2782
-----
Zn++ gl KNO3 25°C 0.10M C M
                                 1989DAc (55480)2783
                        B(ZnA+L)=4.86
                        B(ZnB+L)=5.29
                        B(ZnC+L)=4.80
A: 2,2'-dipyridylamine; B: 5-nitro-1,10-phenanthroline;
C: 5-methyl-1,10-phenanthroline.
-----
Zn++ gl NaClO4 35°C 0.10M U K1=4.95 B2=9.11 1980ABb (55481)2784
Zn++ gl diox/w 35°C 50% U K1=7.57 B2=13.19 1972ATa (55482)2785
Medium: 50% dioxan, I=0 corr.
Zn++ gl diox/w 25°C 70% U K1=5.35 B2=9.90 1969JSa (55483)2786
*******************************
                           CAS 89-57-6 (2675)
C7H7N03
             H2L
2-Hydroxy-5-aminobenzoic acid, 5-Aminosalicylic acid; H2N.C6H3(OH).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KCl 37°C 0.15M C
                                  1993WWa (55545)2787
                       B(ZnH-1L)=-0.95
*****************************
C7H7N03
                           CAS 89-73-6 (204)
2-Hydroxybenzohydroxamic acid (salicylhydroxamic acid); HO.C6H4.CO.NHOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M C K1=5.92 2000KHa (55576)2788
-----
Zn++ gl NaNO3 25°C 0.10M M M K1=6.02 B2=10.08 1996KSc (55577)2789
                        K(Zn(nta)+L)=3.89
                        K(Zn(nta)+H+L)=12.01
                        K(Zn(ida)+L)=5.00
                        K(Zn(ida)+H+L)=12.25
K(Zn(ada)+L)=4.62, K(Zn(ada)+H+L)=12.22.
H2ada: N-(2-acetamido)iminodiethanoic acid.
Zn++ EMF diox/w 30°C 50% U K1=4.83 1977DJa (55578)2790
Medium: 50% dioxan, 0.1 M NaClO4
**********************************
```

```
C7H7N03
                          (1112)
           H2L
4-Aminosalicylic acid; H2N.C6H3(OH).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ vlt KNO3 20°C 1.0M U
                      K1=0.65 ? B2=1.67 1966NVa (55634)2791
                      K3=1.34(?)
                      K4=1.6(?)
CAS 1197-10-0 (3759)
6-(Hydroxymethyl)pyridine-2-carboxylic acid; HO.CH2.C5H3N.COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C ? U K1=4.34 B2=8.45 1962G0a (55647)2792
*******************************
                        CAS 17209-50-6 (886)
C7H7N04
4-Methoxypyridine-2-carboxylic acid N-oxide; C5H3N(0)(OCH3).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 30°C 0.10M U T K1=4.18 B2=6.76 1982RRa (55660)2793
**********************
                        CAS 3577-63-7 (3181)
5-Sulfoanthranilic acid; (5-sulfo-2-aminobenzoic acid)
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 35°C 0.01M U K1=2.90 B2=5.30 1956HSb (55672)2794
******************************
               Thiobenzamide CAS 2227-79-4 (1660)
Thiobenzamide; C6H5.CS.NH2
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     sp non-aq 25°C 100% U
                               1977SWa (55701)2795
                      K(ZnC12+L)=2.97
Medium: Et20
**********************************
C7H7N2O2F3S
                        CAS 73255-69-3 (559)
2-(Trifluoromethanesulfonamidomethyl)pyridine; C5H4NCH2S(:0)2NHCF3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                    K1=5.90 B2=11.25 1982MYb (55711)2796
     gl diox/w 30°C 45% U
Medium: 45% v/v dioxan/H2O, 0.01 M KNO3
*************************
C7H7N2O2SF3
                        CAS 51061-76-8 (9290)
2-(Trifluoromethylsulfonylaminomethyl)pyridiine;
______
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
                                ------
Zn++ gl alc/w 25°C 80% C K1=5.25 B2=10.37 2003CKa (55718)2797
Medium: 80% MeOH/H2O, 0.1 M Me4NNO3.
********************************
                           (6358)
7-Methyl-4-azabenzimidazole;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 0.10M C K1=1.51 1992RKa (55729)2798
***********************************
                         CAS 4463-97-2 (1654)
C7H7N3O2
2,6-Pyridinedialdoxime;C5H3N.(CH:NOH)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M U K1=5.9 B2=11.40 1963BFb (55738)2799
C7H702NS
                         CAS 60587-83-9 (5449)
3-(2-Pyrrole)-2-mercaptopropenoic acid; C4H4N.CH:C(SH).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 0.10M U K1=10.93 B2=19.87 1977WVa (55770)2800
*************************
                         CAS 95-74-9 (756)
C7H8NCl
3-Chloro-4-methylaniline; Cl.C6H3(CH3).NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     sp diox/w 25°C 100% U T H
                                1976BSa (55788)2801
                       K(ZnCl2+L)=1.89
At 10-50 C. DH = -24.2 kJ mol-1; DS = -44.3 J K-1 mol-1.
********************************
                          CAS 5451-39-8 (3157)
C7H8N2O
2-Acetylpyridine oxime; C5H4N.C(:N.OH).CH3
_____
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaCl 25°C 0.10M C
                                2003SSa (55796)2802
                       B(0,1,1)=2.723
                       B(0,1,2)=4.30
                       B(-1,1,2)=-0.860
                       B(-2,1,2)=-9.75
B(p,q,r): pH+qM+rHL=HpMq(HL)r. B(-2,2,2)=-5.88, B(-3,2,2)=-12.711,
B(-4,2,2)=-20.697.
CAS 3724-16-1 (1948)
3-Acetamidopyridine; C5H4N.CH2.CO.NH2
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=1.15 B2=1.70 1974WAb (55803)2803
*****************************
                         (2035)
3-N-Acetylaminoazine; C5H4N.NH.CO.CH3
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.50M U K1=1.00 B2=1.68 1981LRa (55808)2804
                     B3=2.02
**********************************
                        CAS 1195-40-0 (5749)
6-Methylpyridine-2-carboxaldehyde oxime;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
______
Zn++ gl NaCl 25°C 0.10M C
                               2003SSa (55814)2805
                      B(-2,2,2)=-8.24
                      B(-3,2,2)=-14.554
                      B(-4,2,2)=-22.84
B(p,q,r): pH+qM+rHL=HpMq(HL)r.
****************************
                        CAS 88-68-6 (4438)
Benzamide oxime; C6H5.C(:N.OH)NH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl mixed 22°C 70% U K1=7.77 B2=15.53 1978MGd (55819)2806
Medium: 0.1 M KNO3 in 70% (v/v) dioxane in H20
Benzhydrazide CAS 613-94-5 (2565)
Benzoic acid hydrazide; C6H5.CO.NH.NH2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.20M U K1=1.67 B2=2.90 1974FSa (55832)2807
****************************
            HL Salicylaldazone CAS 3291-00-7 (3760)
Salicylaldehyde-hydrazone; 2-(OH).C6H4.CH:N.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl mixed 28°C 20% U I K1=2.681 B2=5.26 1987RRa (55846)2808
In 20% DMF. In 40% DMF, K1=3.055, K2=2.812; in 60% DMF, K1=3.675, K2=3.196
**********************************
               Salicylic hydra CAS 936-02-7 (2646)
2-Hydroxybenzoic acid hydrazide; HO.C6H4.CO.NH.NH2
______
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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3
           30°C 0.10M U M K1=3.45 1993RDa (55867)2809
Also data for ternary complexes with alanine, phenylalanine, bipyridyl,
catechol, oxalate and 1,2-diaminoethane.
************************************
                          CAS 99-52-5 (470)
C7H8N2O2
2-Methyl-4-nitro-aminobenzene; CH3.C6H3(NO2).NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
sp non-ag 25°C 100% U
                                 1965SSe (55879)2810
                       K(ZnBr2+L)=1.18
Medium: acetone
*********************************
                          CAS 89-62-3 (466)
2-Nitro-4-methylaminobenzene; CH3.C6H3(NO2).NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ sp non-aq 25°C 100% U
                                 1965SSe (55886)2811
                      K(ZnBr2+L)=0.40
Medium: acetone
**********************************
C7H8N2O2
                         CAS 15513-52-7 (5516)
3-Nitro-2,6-dimethylpyridine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.50M U K1=0.3 1983BEb (55895)2812
*******************************
C7H8N2O2
                          CAS 119-32-4 (467)
3-Nitro-4-methylaminobenzene; CH3.C6H3(NO2).NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp non-aq 25°C 100% U M
                                 1965SSe (55902)2813
                       K(ZnBr2+L)=2.40
                       K(ZnCl2+L)=1.90
                       K(ZnI2+L)=2.02
Medium: acetone
***********************************
                          CAS 99-52-5 (1937)
C7H8N2O2
3-Nitro-6-methylaminobenzene; CH3.C6H3(NO2).NH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Zn++ sp non-aq 25°C 100% U
                                 1965SSe (55908)2814
                       K(ZnCl2+L)=1.88
                       K(ZnBr2+L)=2.12
```

K(ZnI2+L)=1.95

```
Medium: acetone
*********************************
                        CAS 611-05-2 (764)
4-Nitro-3-methylaniline; CH3.C6H3(NO2).NH2
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ sp non-aq 25°C 100% U
                               1965SSe (55916)2815
                      K(ZnBr2+L)=1.27
Medium: acetone
**********************************
                         CAS 3569-99-1 (1950)
N-(Hydroxymethyl)isonicotinamide; C5H4N.CO.NH.CH2.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=0.78 B2=1.18 1974WAb (55924)2816
C7H8N2O3S
                          (3783)
2-Ethylthio-1H-1,3-diazin-4-one-5-carboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     gl KCl 25°C 0.10M U
                               1961TDb (55931)2817
                     K(Zn+HL)=2.33
*********************************
C7H8N4
                        CAS 85180-62-7 (2481)
2,9-Dimethylpurine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 1.00M U K1=0.71 1983ALa (55956)2818
*******************************
                         (2641)
4,4'-(5,5')-Bisimidazolylmethane; C3H3N2.CH2.C3H3N2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 30°C 0.16M U K1=5.62 B2=10.48 1965DFa (55962)2819
*******************************
                        CAS 14675-46-8 (2484)
6,9-Dimethylpurine;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 1.00M U K1=<0.2 1983ALa (55969)2820
*******************************
                        CAS 85180-61-6 (2482)
8,9-Dimethylpurine;
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 1.00M U K1=0.6
                               1983ALa (55977)2821
*******************************
                          (1928)
Bis(imidazol-2-yl)methane; C3H3N2.CH2.C3H3N2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C K1=5.53 B2=10.22 1994VSa (55987)2822
_____
Zn++ gl KNO3 35°C 0.20M U M
                               1990RMa (55988)2823
                      K(CoL2+Gly)=3.83
                      K(CoL2+Ala)=3.76
                      K(CoL2+Val)=3.66
                      K(CoL2+norVal)=3.68
K(CoL2+Leu)=3.63, K(CoL2+norLeu)=3.49, K(CoL2+Phe)=3.82
K(CoL2+Trp)=4.11, K(CoL2+Ser)=3.57, K(CoL2+Thr)=3.59
______
   gl KNO3 35°C 0.20M U M K1=5.13 B2=9.80 1989RVa (55989)2824
C7H8N4S
                         CAS 3608-75-1 (1799)
2-Pyridinecarboxaldehyde thiosemicarbazone; C5H4N.CH:N.NH.CS.NH2
____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ sp KCl 25°C 0.10M M K1=9.18 1977AKb (56019)2825
**********************************
C7H802
            HL
                Salicyl alcohol CAS 90-01-7 (3727)
2-Hydroxybenzyl alcohol; HO.C6H5.CH2.OH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 30°C 75% U K1=7.63
                              1964JVa (56090)2826
Medium: 75% dioxan, 0.1 M NaClO4
**********************************
C7H803S
                         CAS 55832-65-0 (3763)
3-Hydroxythiophene-2-carboxylic acid ethyl ester
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp diox/w 25°C 10% U K1=4.12
                              1965CSa (56113)2827
Medium: 10% dioxan, 0.1 M NaClO4
**********************************
                Methyl kojic CAS 1506-07-8 (2686)
C7H804
            HL
3-Hydroxy-6-(hydroxymethyl)-2-methyl-4H-pyran-4-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ sp KCl 25°C 0.10M M I K1=5.68 1985PEe (56122)2828
**********************************
                          CAS 2029-29-4 (2687)
3-Hydroxy-2,6-bis(hydroxymethyl)-4H-pyran-4-one;
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.10M M I K1=5.24
                               1985PEe (56141)2829
Zn++ sp KCl
*********************************
C7H808P2
                           (6892)
1,2-((Phenylenedioxo)methylene)diphosphonic acid); C6H4O2C(PO3H2)2
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                     K1=9.06 1985GMb (56162)2830
Zn++ gl R4N.X 25°C 0.50M U
                       K(Zn+HL)=4.86
Medium: 0.5 M Me4NCl
***********************************
            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
______
    sp non-aq 25°C 100% U M
                                1993SSc (56190)2831
                       K(ZnA+L)=2.205
Medium: Toluene. H2A: Octaethylporphyrin.
-----
    oth KNO3 ? 0.50M U K1=3.53 1971LWb (56191)2832
**********************************
          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
_____
     gl KNO3 25°C 0.50M U K1=1.43 B2=2.53 1979LRa (56250)2833
                      B3=3.29
**********************************
                3,5-Lutidine (323)
3,5-Dimethylpyridine; C5H3N.(CH3)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaNO3 25°C 0.50M C K1=1.37
                                2002KSb (56272)2834
-----
     gl KNO3 25°C 1.00M U
                       K1=1.25 B2=2.04 1978LRb (56273)2835
                       B3=2.35
******************************
                3-Ethylpyridine CAS 536-78-7 (2038)
C7H9N
3-Ethylazine, 3-Ethylpyridine; C5H4N.C2H5
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
           25°C 0.50M U K1=1.00 B2=2.15 1981LRa (56293)2836
     gl KNO3
3-Methylaniline CAS 108-44-1 (755)
3-Methylaniline (3-Toluidine); CH3.C6H4.NH2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp diox/w 25°C 100% U T H
                               1976BSa (56302)2837
                     K(ZnCl2+L)=2.48
At 10-50 C. DH = -28.0 kJ mol-1; DS = -45.9 J K-1 mol-1.
**********************************
            L 4-Ethylpyridine CAS 536-75-4 (2055)
4-Ethylazine, 4-Ethylpyridine; C5H4N.C2H5
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     EMF KNO3 25°C 1.00M U K1=1.32 B2=2.08 1971LWa (56317)2838
______
     ISE KNO3 25°C 1.00M U K1=1.30 B2=1.91 1971LWa (56318)2839
**************************
C7H9N
               4-Methylaniline CAS 106-49-0 (754)
4-Methylaniline (4-Toluidine); CH3.C6H4.NH2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp diox/w 25°C 100% U T H
                               1976BSa (56335)2840
                     K(ZnC12+L)=2.78
At 10-50 C. DH = -28.8 kJ mol-1; DS = -43.8 J K-1 mol-1.
********************************
               o-Anisidine CAS 90-04-0 (2474)
             L
2-Methoxyaniline; CH30.C6H4.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                              Reference ExptNo
______
     gl diox/w 25°C 85% C
                               1983HBa (56385)2841
                     K1 < 1.3
**********************************
C7H9N02
                        CAS 30652-11-0 (2458)
3-Hvdroxy-1,2-dimethylpyridin-4(1H)-one; (OH)(CH3)(0:)C5H2N.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
 gl KNO3 25°C 0.10M C K1=7.19 B2=13.53 2004SGc (56422)2842
***************************
                          (3784)
Hydroxy(6-methyl-2-pyridyl)methanesulfonic acid;
______
Metal
     Mtd Medium Temp Conc Cal Flags Lg K values
                                Reference ExptNo
```

```
gl NaClO4 25°C 0.10M U K1=4.79 B2=8.38
                                    1964BGa (56462)2843
***********************
                           CAS 3145-77-5 (3768)
2-(Methylthiomethyl)pyridine; C5H4N.CH2.S.CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% U M K1=1.1 1967SIb (56482)2844
                        K(Zn(bpy)+L)=1.1
Medium: 50% dioxan, 0.1 M NaClO4
 gl NaClO4 25°C 0.10M U K1=<1 1964KSb (56483)2845
*********************************
C7H9N302S2
                            (6945)
1-Ethoxycarbonyl-3-thiazole-2-ylthiourea; C3H2NS.NHCSNHCOOC2H5
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
- - - '
      gl alc/w 25°C 60% U K1=5.02
Zn++
                                 1994KEa (56499)2846
Medium: 60 % EtOH/H2O, 0.1 M NaNO3
***********************************
C7H9N5
                            (6975)
Bis(imidazol-2-yl)methylamine;
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C
                        K1=5.38 B2=9.92 1994VSa (56513)2847
                        B(ZnHL)=9.66
                        B(ZnHL2)=14.25
                        B(ZnH2L2)=18.85
                        B(Zn2H-1L2)=6.27
Also data for the amide formed with the peptide MeCO-Pro-Leu-Gly.
*******************
C7H9N504
                          CAS 215525-73-8 (7724)
N-(4-Amino-1,6-dihydro-1-methyl-5-nitroso-6-oxo-pyrimidin-2-yl)glycine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                        B2=7.61
      gl KCl
             35°C 0.10M C
                                 2000ALa (56521)2848
                        B(ZnHL)=5.28
                        K(Zn=Zn(OH)2+4H)=-15.56
                        K(Zn=Zn(OH)4+4H)=-30.20
**********************************
C7H10NO6ClP2
             H4L
                            (6895)
N-(4-Chlorphenyl)aminomethylenedi(phosphonic acid); ClC6H4.NH.CH(PO3H2)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
 -----
Zn++ gl KNO3 25°C 0.10M U K1=10.9
                                 1990GKa (56552)2849
```

```
K(Zn+HL) = 6.9
****************************
                         CAS 13173-22-3 (8012)
1-Allyl-2-methylimidazole;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KNO3 25°C 0.50M C
                       K1=1.90 B2= 4.25 2001KGa (56560)2850
Zn++
                       B3=7.00
                       B4=8.90
*********************************
C7H10N2
                       CAS 42088-91-5 (3134)
2-(Methylaminomethyl)pyridine (2-Picolylmethylamine)
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KNO3 25°C 0.50M U K1=4.96 B2=8.58 1971GEa (56602)2851
-----
Zn++ cal diox/w 25°C 50% U H
                                1966WRb (56603)2852
Medium: 50% dioxan, 0.1 M KNO3. DH(B2)=-46.0 kJ mol-1
-----
     gl oth/un 20°C ->0 U T H K1=4.95
                               1959GFa (56604)2853
DH(K1)=-22.0 kJ mol-1, DS=21 J K-1 mol-1. K1=5.12(10 C),4.73(30 C),4.76(40C)
****************************
C7H10N2
                         CAS 20173-04-0 (2039)
3-(N,N-Dimethylamino)pyridine; C5H4N.N(CH3)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=1.18 B2=1.95 1981LRa (56620)2854
******************************
                         CAS 1122-58-3 (492)
4-(N,N-Dimethylamino)pyridine; C5H4N.N(CH3)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
Zn++ sp non-aq 25°C 100% U M
                                1993SSc (56627)2855
                       K(ZnA+L)=4.656
                       K(ZnB+L)=4.955
                       K(ZnC+L)=5.85
Medium: Toluene. H2A: Octaethylporphyrin. H2B: t-Octaethylchlorin.
H2C:ttt-Octaethylisobacteriochlorin.
*******************************
                         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
______
Zn++ EMF NaNO3 20°C 0.10M U K1=4
______
```

```
vlt diox/w 25°C 50% U H B2=7.80
Zn++
                                 1966WRb (56650)2857
Medium: 50% dioxan, 0.1 M KNO3. By calorimetry: DH(B2)=-22.2 kJ mol-1,
DS=74.4 J K-1 mol-1
************************************
                            (7890)
C7H10N20
1-Propyl-2-imidazolecarboxaldehyde;
 .....
    Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
______
      gl KNO3 25°C 0.5M C K1=1.65 B2= 2.11 1999BKa (56660)2858 B3=4.19
**********************************
                           CAS 51-52-5 (4468)
C7H10N2OS
6-Propyl-2-thiouracil (6-propyl-4-hydroxy-2-mercaptopyrimidine);
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 26°C 0.01M U K1=2.16 B2=5.78 1970GWa (56674)2859
*******************************
C7H10N2O2S
                            (560)
2-(Methanesulfonamidomethyl)pyridine; C5H4N.CH2S(:0)2NHCH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 30°C 45% U K1=12.16
                                 1982MYb (56681)2860
Medium: 45% v/v dioxan/H2O, 0.01 M KNO3
********************************
                           CAS 71691-06-0 (1247)
C7H10N2O3S
             HL
2-(N-Pyrrolideneimino)ethane sulfonic acid; C4H4N.CH:N.CH2.CH2.SO3H
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 0.10M U T K1=8.45 1979GSa (56690)2861
*******************************
C7H10N2O8P2
                           CAS 195000-06-7 (8891)
N-(3-Carboxy-2-pyridyl)aminomethane-1,1-diphosphonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KCl
            25°C 0.20M C
                        K1=10.10 B2=14.50 2002MKc (56700)2862
                        B(ZnH2L)=21.71
                        B(ZnHL)=17.01
                        B(ZnH-1L)=1.04
                        B(ZnH4L2)=43.20
B(ZnH2L2)=31.08.
*********************************
                          CAS 5802-62-3 (71)
Cyclopentane-1,1-dicarboxylic acid; C5H8.(COOH)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
Zn++ gl NaClO4 25°C 0.10M U K1=2.38 1972RVh (56727)2863
********************
                        CAS 5164-76-1 (959)
Pent-1-ene-5-dioic acid; CH2:CH.CH2.CH2.CH(COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=2.62 1975IPa (56742)2864
********************
                        CAS 57056-39-0 (5947)
2-(Carboxymethyl)glutaric acid; HOOC.CH2.CH(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                      K1=2.01
Zn++ gl KNO3 25°C 0.50M U
                            1983WKa (56753)2865
                      B(ZnHL)=6.50
                      B(ZnH2L)=10.14
****************************
               Acetylproline (7193)
C7H11NO3
1-Acetyl-2-pyrrolidinecarboxylic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaClO4 25°C 0.10M M
                              1994KTa (56771)2866
                     K(ZnA+L)=2.2
A:1,4,7,10-Tetraazacyclododecane
**********************************
                        CAS 16598-06-4 (965)
N-(Prop-2-enyl)iminodiethanoic acid; CH2:CH.CH2.N(CH2.COOH)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=7.62 B2=14.01 1975IPa (56782)2867
C7H11N04
           H2L
                        CAS 5626-40-4 (2803)
N-Carboxymethylpyrrolidine-2-carboxylic acid; HOOC.C4H7N-CH2COOH
-----
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 1.00M U K1=8 B2=14 1974MIb (56792)2868
*******************************
                        CAS 499-82-1 (3163)
C7H11N04
           H2L
Piperidine-2,6-dicarboxylic acid; C5H9N(COOH)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Zn++ gl KCl 30°C 0.10M U K1=6.1 B2=11.1 1957TBb (56799)2869
******************************
C7H11N05
                          (3164)
```

```
1-Amino-2-propanone-N,N-diethanoic acid; CH3.CO.CH2.N(CH2.COOH)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=6.89 B2=10.72 1965AUa (56822)2870
Previously published as K1=7.01, K2=3.64 (Bull.Chem.Soc.Jpn.,1963,36,1593)
______
Zn++ gl KNO3 25°C 0.10M U K1=7.0 B2=10.6 1963ANa (56823)2871
***********************
           H3L
                        CAS 40199-58-4 (3165)
C7H11N06
N-(2'-Carboxyethyl)iminodiethanoic acid; HOOC.CH2.CH2.N(CH2.COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    vlt KNO3 25°C 0.10M U K1=9.98
                              1967UKa (56865)2872
 -----
   gl KCl 30°C 0.10M U K1=10.1
                            1953CMa (56866)2873
_____
    EMF KCl 20°C 0.10M U K1=10.07 1949ASa (56867)2874
Method: H electrode
**********************************
           H3L
              MNTA
C7H11N06
                         (1026)
Nitrilo(2-propanoic)-diethanoic acid; HOOC.CH(CH3).N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 1.00M C
                     K1=9.78
                              1978CBb (56895)2875
                     B(ZnHL)=11.60
-----
Zn++ gl KNO3 20°C 0.10M U K1=11.06
                              1974RMf (56896)2876
______
Zn++ gl KCl 20°C 0.10M U K1=10.89 1966IMa (56897)2877
*******************************
               DPHP
           H4L
2,6-bis(Dioxyphosphorylmethyl)pyridine; C5H3N.(CH2.PO3H2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=9.66 1988KPa (56926)2878
Zn++ gl KCl 25°C 0.10M U
                      K(Zn+HL)=5.50
                      K(Zn+H2L)=3.03
*******************************
C7H11N06P2
           H4L
                        CAS 4712-06-5 (4470)
Amino(phenyl)methylenediphosphonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                      K1=11.64
Zn++ gl KCl 25°C 0.10M U
                              1969DMd (56934)2879
                      K(Zn+HL)=8.49
                      B(Zn2L)=16.31
```

```
***********************************
C7H11N3
                          CAS 63763-86-0 (6062)
2,6-Di(aminomethyl)pyridine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl NaNO3 20°C 1M C K1=8.51 B2=15.52 1992CPb (56955)2880
*****************************
C7H11N3O
             L
                Acetylhistamine CAS 673-49-4 (7412)
4-(2'-Acetylaminoethyl)imidazole; C3H3N2.CH2CH2.NH.COCH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C K1=2.55 1989BKa (56960)2881
                       K(Zn+HL=ZnL+H)=-4.57
*********************************
                          CAS 7389-87-9 (3162)
C7H11N3O2
Histidine methyl ester
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C T M K1=5.04 2000RRa (56992)2882
                        B(ZnLA)=17.09
H2A is cysteine methyl ester. Data for 35 and 45 C.
DH(ZnLA) = -177 \text{ kJ mol} -1, DS(ZnLA) = -266 \text{ J K} -1 \text{ mol} -1.
______
     gl KNO3 25°C 0.10M M K1=4.45 B2=8.66 1993GVa (56993)2883
______
Zn++ EMF oth/un 25°C ? U K1=5.6 1966PAa (56994)2884
______
Zn++ gl KCl 0°C 0.25M U T H K1=5.29 B2=10.00 1965AZa (56995)2885
                        K3=1.90
K1=4.82(15 \text{ C}), 4.40(25 \text{ C}), 4.36(40 \text{ C}); K2=3.93(15 \text{ C}), 3.78(25 \text{ C}), 3.69(40 \text{ C});
At 15 C:DH(K1)=-38.5 kJ mol-1, TDS=-11.7 kJ mol-1, DH(K2)=-38.5,TDS2=-16.7
-----
Zn++ gl KNO3 25°C 0.16M U M K1=4.46
                               B2=8.66 1965CMa (56996)2886
                        K3 = 0.0
Ternary complexes with histidine
********************************
             HL L-N-MeHistidine CAS 31632-58-3 (1192)
C7H11N3O2
L-N-Methylhistidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KCl
             25°C 0.10M C
                         K1=6.368 B2=11.340 1976RIa (57014)2887
                        K(Zn(DL-N-Me-His))=6.363
                        B(Zn(DL-N-Me-His)2)=11.537
*******************************
C7H12N2
                           CAS 4316-42-1 (8409)
1-Butyl-1H-imidazole;
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 25°C 0.50M M
                       K1=2.57 B2= 4.97 1977LBc (57037)2888
                      B3=7.20
                      B4=9.34
                      B5=10.81
*********************************
C7H12N2
                         (7888)
1-Propyl-2-methylimidazole;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.5M C
                      K1=1.35 B2= 4.40 1999BKa (57041)2889
                      B3=7.45
                      B4=9.41
                      B5=10.45
*******************************
1-Propyl-2-Hydroxymethylimidazole;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KNO3 25°C 0.5M C
                      K1=2.07 B2= 4.92 1999BKa (57049)2890
                      B3=6.11
                      B4=7.47
*********************************
C7H12N2O2
                          (6181)
2-(N-2-Pyrrolidimino)propanoic acid;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl NaClO4 25°C 0.10M U TIH B2=9.64
                               1988GRb (57071)2891
35 C:B2=9.70, 45 C:9.79. DH(B2)=13.6 kJ mol-1, DS=229.9 J K-1 mol-1
***************************
                Cyclo-Met-Gly
                        CAS 97605-73-7 (8135)
C7H12N2O2S
Cyclo-(L-methionyl-L-glycine), 3-[2-(Methylthio)ethyl]-2,5-piperazine dione;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp NaClO4 20°C 1.0M C K1=-0.6
                               1982BBe (57084)2892
Zn++
*********************************
            HL
                Gly-Pro
                        CAS 704-15-4 (257)
Glycyl-proline; H2N.CH2.CO.NC4H7.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
           20°C 0.20M U K1=4.03 B2=7.63 1982KRc (57112)2893
Zn++ gl KCl
```

```
C7H12N2O3
             HL
                 Pro-Gly CAS 2578-97-6 (262)
Prolyl-glycine; C4H8N.CO.NH.CH2.COOH
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 20°C 0.20M U K1=3.58 B2=7.00 1982KRc (57144)2894
*******************************
                 Gly-Glu
                          CAS 7412-78-4 (280)
            H2L
Glycyl-glutamic acid; H2N.CH2.CO.NH.CH(CH2.CH2.COOH).COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C
                        K1=3.98
                                 2002FBa (57166)2895
                        B(ZnHL)=9.96
                        K(ZnL+H)=5.98
                        K(Zn+HL)=1.587
             20°C 0.10M U K1=7.30 B2=9.54 1980BBc (57167)2896
Zn++ gl KNO3
*******************************
C7H12N2O6P2
             H4L
                          CAS 70010-76-3 (8892)
N-(3-Methyl-2-pyridyl)aminomethane-1,1-diphosphonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.20M C
Zn++ gl KCl
                        K1=10.32 B2=14.30 2002MKc (57186)2897
                        B(ZnH2L)=21.80
                        B(ZnHL)=17.35
                        B(ZnH-1L)=1.32
                        B(ZnH4L2)=43.34
B(ZnH2L2)=32.31.
***********************************
                          CAS 117087-39-5 (8366)
            H2L
                 PMEC
1-[2-(Phosphonomethoxy)ethyl]cytosine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        K1=2.67
Zn++ gl NaNO3 25°C 0.10M M
                                 1999BHb (57195)2898
                        K(Zn+HL)=0.95
                        K(ZnL+H)=5.23
********************************
C7H12N40
                            (6725)
Glycyl-histamine
  ______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaClO4 25°C 0.10M C
                              B2=6.80
                                    1994GHb (57211)2899
                        K1 = 3.58
                       B(ZnHL)=9.91
***********************************
                           CAS 96740-23-7 (2249)
1,5-Dimethoxy-pent-2,4-dione, CH3.0.CH2.CO.CH2.CO.CH2.O.CH3
```

```
Reference ExptNo
     Mtd Medium Temp Conc Cal Flags Lg K values
-----
   gl diox/w 24°C 50% U K1=6.0
                              1979ACa (57284)2900
*******************************
           H2L
               Pimelic acid CAS 111-16-0 (985)
1,7-Heptanedioic acid; HOOC.(CH2)5.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     gl KNO3 25°C 0.10M C K1=1.3 1975LPa (57302)2901
**********************************
C7H12O4
                        CAS 534-59-8 (480)
Butylpropanedioic acid (Butylmalonic acid); HOOC.CH(C4H9).COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C
                      K1=2.97 B2=5.00
                                 1989ABa (57326)2902
                      K(Zn+HL)=2.01
                      B(Zn(bpy)L)=7.77
DH(K1)=15.5 kJ mol-1, DS(K1)=108.8 J K-1 mol-1
______
Zn++
     gl KNO3 25°C 0.10M C H
                      K1=2.80
                            B2=4.96 1989ABa (57327)2903
                      K(Zn+HL)=1.65
                      B(Zn(bpy)L)=7.83
DH(K1)=15.0 \text{ kJ mol-1}, DS(K1)=103.8 J K-1 mol-1
______
   gl KNO3 25°C 0.10M C
                   K1=2.73 1975IPa (57328)2904
***********************************
C7H12O4
           H2L
                        CAS 510-20-3 (482)
Diethylpropanedioic acid (Diethylmalonic acid); HOOC.C(C2H5)2.COOH
------
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
    gl NaClO4 25°C 0.10M U K1=2.44
                              19700Va (57351)2905
______
     con oth/un 25°C .001M U K1=3.24
                              1931IRb (57352)2906
(3170)
1-Aminocyclohexanecarboxylic acid; H2N.C6H10.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
           20°C 0.10M U K1=4.78 B2=9.18
Zn++ gl KCl
                                1963IPa (57428)2907
*************************
                        CAS 103067-99-4 (1127)
C7H13N02
            HL
2-Amino-hept-6-enoic acid; CH2:CH.CH2.CH2.CH2.CH(NH2).COOH
------
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ gl KNO3 25°C 0.10M U K1=4.45 B2=8.632 1975IPb (57434)2908
***********************
                           CAS 99571-58-1 (6223)
6-Methylpiperidine-2-carboxylic acid; CH3.C5H9N.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl oth/un 30°C 0.10M U H K1=5.79 B2=11.33 1985RRe (57449)2909
DH(K1)=-61 kJ mol-1, DS= 90 J K-1 mol-1
*********************************
                            (6377)
2-Propylthiazolidine-4-carboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 30°C 0.10M U TIH K1=2.90 B2= 5.06 1983RKb (57463)2910
At I=0.0, K1=3.06, K2=2.28. Data for 25-50 C. DH(K1)=-13.4 kJ mol-1,
DS(K1)=11.8 \text{ J K-1 mol-1; } DH(K2)=-12.9, DS(K2)=0.13.
*************************
C7H13N03
                            (7175)
3,3'-Dimethylglutaramide; HOOCCH2C(CH3)2CH2CONH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 25°C 0.10M U B2=5.52 1995MWb (57469)2911
***************************
C7H13N03S
                           CAS 59-53-0 (1269)
N-Acetyl-penicillamine; CH3.CO.NH.CH(COOH)C(CH3)2SH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M M M
                                 1989SHd (57483)2912
                      K(Zn(nta)+L)=4.30
-----
Zn++ gl KCl 25°C 0.20M C K1=6.85 B2=14.03 1988SKc (57484)2913
***********************
C7H13N04
            H2L
                           CAS 16578-07-5 (341)
N-Propyliminodiethanoic acid; CH3.CH2.CH2.N(CH2.COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KNO3 25°C 0.10M C K1=8.00 B2=14.55 1975IPa (57521)2914
******************************
             HL
                            (6310)
Acetylacetone-2-aminoethane sulfonic acid schiff base;
CH3.CO.CH2.C(CH3):N.CH2.CH2.HS03
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% U T H K1=7.80
                                 19760Ma (57533)2915
```

```
*******************************
C7H13N04S
                           (3184)
N-(2-Methylthioethyl)iminodiethanoic acid; CH3.S.CH2.CH2.N(CH2.COOH)2
   -----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KCl
            20°C 0.10M U K1=8.28
                             B2=12.78 1955SAa (57540)2916
                      K(Zn(OH)L+H)=9.68
****************************
C7H13N05
                          CAS 62117-07-1 (3171)
N-(2-Methoxyethyl)iminodiethanoic acid; CH3.O.CH2.CH2.N(CH2.COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 20°C 0.10M U K1=8.43 B2=12.85 1955SAa (57567)2917
                       K(ZnLOH+H)=9.65
                       K(ZnL2OH+H)=10.75
*******************************
                          CAS 59881-62-1 (339)
N-(3-Hydroxypropyl)iminodiethanoic acid; HO.(CH2)3.N(CH2.COOH)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 30°C 0.10M U K1=7.7 B2=13.0 1954CMa (57584)2918
*******************************
                          CAS 41433-03-8 (4451)
N-(Carboxymethyl)-N-(2'-hydroxyethyl)alanine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
           20°C 0.10M U K1=8.36 B2=12.15 1968MRb (57592)2919
     EMF KNO3
**************************
C7H13N06
                          CAS 32013-58-4 (6079)
N-(2,3-Dihydroxypropyl)iminodiethanoic acid; HO.CH2.CH(OH).CH2.N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 20°C 0.10M U K1=8.11 B2=11.53 1980MRc (57602)2920
*******************************
                           (4455)
C7H13NS2
Hexamethylenedithiocarbamic acid; (CH2)6N.CSSH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ dis oth/un 25°C 0.01M U B2=12.9 1973SSa (57629)2921
     vlt KCl 25°C 1.0M U
                       B2=13.1 1973SSa (57630)2922
*******************************
                         CAS 673-46-1 (4424)
4-(2-Dimethylaminoethyl)imidazole;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 25°C 0.10M U K1=3.40
                                1973BDb (57637)2923
*******************************
                Ala-Asn CAS 1999-41-3 (5934)
            HL
Alanyl-asparagine; NH2.CH(CH3.CO.NH.CH(CH2.CO.NH2).COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaCl 20°C 0.15M U K1=3.18 1989DKa (57646)2924
D/L-Ala-D/L-Asn stereoisomer
**********************************
                          CAS 111652-03-0 (8138)
C7H14N2O2
Azetidine-1-(2-aminobutanoic acid);
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=7.3 1989ARa (57699)2925
Gly-Val CAS 7963-21-9 (973)
             HL
Glycyl-valine; H2N.CH2.CO.NH.CH(CH(CH3)2).COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                     M K1=4.10
Zn++ gl NaClO4 25°C 0.10M U
                                2001PSb (57748)2926
                       B(ZnH-1L)=-3.00
                       B(ZnAL)=5.50
                       B(ZnAH-1L)=-2.10
                       B(Zn2AL2)=18.76
A is imidazole. B(Zn2H-1AL2)=11.66, B(ZnNiAL2)=20.15, B(ZnNiH-1AL2)=13.55.
------
Zn++ gl NaClO4 30°C 0.20M U
                     M K1=4.20
                                1999PGa (57749)2927
                       B(ZnAL)=5.40
                       B(ZnBL)=5.62
                       B(ZnCL)=5.62
A=imidazole, B=2-methylimidazole, C=2-ethylimidazole.
*********************************
            H2L
                          CAS 28052-93-7 (526)
S,S'-Methylenebis(L-cysteine); H2N(H0OC)CH.CH2.S.CH2.S.CH2.CH(COOH)NH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
           25°C 0.10M U K1=7.28 B2=11.13 1981BLa (57825)2928
Zn++ gl KCl
C7H14N4O4P
            H2L
                          CAS 550359-20-1 (9059)
[[2-(4-Amino-2-imino-1(2H)-pyrimidinyl)ethoxy]methyl]phosphonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl NaNO3 25°C 0.10M M K1=2.11 2003FHa (57837)2929
******************************
                           CAS 4536-23-6 (5863)
5-Methyhexanoic acid; (CH3)2CH.(CH2)3.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaNO3 25°C 0.10M C I M K1=0.99
                                  1988LTc (57853)2930
                        K(Zn(phen)+L)=0.98
Data also for 50% v/v EtOH/H2O, and 50% v/v Dioxan/H2O mixtures
*******************
C7H15N04
                           CAS 41244-51-3 (4459)
N,N-Bis(2'-hydroxyethyl)alanine; (HO.CH2.CH2)2.N.CH(CH3)COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      EMF KNO3 20°C 0.10M U K1=5.16 B2=8.76 1968MRb (57928)2931
********************************
                MOPS
                           CAS 1132-61-2 (2792)
C7H15N04S
3-(N-Morpholino)propanesulfonic acid; C4H8ON-CH2.CH2.CH2.SO3H
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 25°C 0.10M C K1=3.47 2001AOa (57958)2932
______
Zn++ gl KNO3 25°C 0.10M C M K1=3.63 1999AAa (57959)2933
                        K(Zn(Ser)+2L)=6.42
                        K(Zn(Asp)+2L)=7.30
                        K(Zn(His)+2L)=6.82
**********************************
                           CAS 3329-30-4 (564)
C7H15N05
2-Methylamino-2-deoxyglucose;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaNO3 30°C 0.10M U K1=3.2 1979MNa (57971)2934
*********************************
C7H15N05S
                 MOPSO
                           CAS 68399-77-9 (1967)
3-(N-Morpholino)-2-hydroxypropane sulfonic acid;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C
                                  1999AAa (57990)2935
                        K(Zn(Gly)+2L)=7.28
                        K(Zn(Ser)+2L)=7.63
                        K(Zn(Met)+2L)=6.97
                        K(Zn(Asp)+2L)=7.65
K(Zn(Glu)+2L)=7.03, K(Zn(His)+2L)=8.50.
**********************************
C7H15N07
                             (6519)
              HL
```

```
2-Amino-2-deoxy-D-glycero-D-gulo-heptonic acid; HOOC.CH(NH2).(CHOH)4.CH2OH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M U K1=4.62 B2=12.72 1992DGa (58001)2936
                     B(ZnH2L2)=22.46
                     B(ZnH-1L)=-4.52
C7H15N07
                         (7135)
2-Amino-2-deoxy-D-glycero-L-glucoheptonic acid; HOOCCH(NH2)(CHOH)4CH2OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 25°C 0.10M C K1=4.62 B2=8.33 1995DFc (58007)2937
                    B(ZnH-1L)=-4.46
********************************
               CAS 86849-08-3 (3136)
C7H16N2
trans-Cycloheptane-1,2-diamine; C7H12(NH2)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl oth/un 10°C ->0 U K1=6.11 B2=11.64 1958BFa (58043)2938
(6586)
1-0xa-4,8-diazacyclodecane;
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=5.1 B2=10.1 1990CCa (58053)2939
______
Zn++ gl NaNO3 25°C 0.10M U K1=4.94 1990HWa (58054)2940
C7H16N2S
                        (6463)
1-Thia-4,8-diazacyclodecane;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=6.85 1992WLb (58064)2941
*******************************
                       CAS 26158-99-6 (5696)
Pentyl-ethylsulfide; C2H5.S.C5H11
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     ISE non-aq 25°C 100% U K1=-0.18
                             1986MMb (58093)2942
Medium: acetone, Bu4NCl04
********************************
            L n-Heptylamine CAS 111-68-2 (3138)
n-Heptylamine; CH3(CH2)6.NH2
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     sp non-ag 15°C 100% U
                                 1993MEa (58098)2943
                       K(ZnA+L)=3.63
                       K(ZnB+L)=3.18
In chloroform. A=5,15-Bis(2-hydroxy-1-naphthyl)-2,3,7,8,12,13,17,18-octa-
ethylporphine, B=5,15-Bis(2-methoxy-1-naphthyl) deriv. of A
**************************
C7H17N02
                           (6450)
N,N-Di(2-hydroxypropyl)methylamine; CH3.N(CH2.CH(OH).CH3)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl oth/un 25°C ? C K1=2.87 1991DMa (58104)2944
****************************
                AMPSO
                          CAS 68399-79-1 (1968)
3-[1,1-Dimethyl-2-hydroxyethylamino]-2-hydroxypropanesulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.10M C K1=4.42
   gl KNO3
                                2001A0a (58116)2945
****************************
C7H17N06S
             HL
                DIPSO
                           (1097)
3-[N,N-Bis(2-hydroxyethyl)amino]-2-hydroxypropane sulfonic acid;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KNO3 25°C 0.10M C K1=3.83
                                2000ADa (58130)2946
Zn++
  Zn++ gl KNO3 25°C 0.10M C K1=3.55
                              1999AAa (58131)2947
*******************************
C7H17N07P2
                          CAS 220491-02-1 (7714)
N-2-Methyltetrahydrofuryliminodi(methylenephosphonic acid);
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C K1=10.85 B2=15.25 1999MKa (58148)2948
                       B(ZnHL)=16.17
                       B(ZnH2L)=20.51
                       B(ZnH-1L)=0.08
                       B(ZnH2L2)=31.10
*K(ZnL)=-10.77; K(ZnOH+L)=9.47; K(ZnOH+ZnL=Zn(OH)L+Zn)=-1.38.
B(ZnHL2)=25.34; B(ZnH-1L2)=3.84.
**********************************
                TAPS0
                          CAS 68399-81-5 (167)
C7H17N07S
             HL
3-[N-(Tris(hydroxymethyl)methyl)amino]-2-hydroxypropane sulfonic acid
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl KNO3 25°C 0.10M C M K1=3.80 2001AAa (58167)2949
Also data for ternary complexes with 5'-GMP, 5'-IMP and 5'-CMP.
______
    gl KNO3 25°C 0.10M C
                  K1=3.61
                             2000ADa (58168)2950
-----
Zn++ gl KNO3
          25°C 0.10M C K1=3.78 1999AAa (58169)2951
**********************************
C7H17N2O3P
                        (7919)
(Glycylamino)methyl(t-butylphosphinic acid);
______
    Mtd Medium Temp Conc Cal Flags Lg K values
·
Zn++ gl KNO3 25°C 0.10M C
                     K1=3.55 B2= 6.34 2001LKa (58187)2952
                     B(ZnHL)=9.89
                     B(ZnH-2L)=-13.39
***********************
                      CAS 60668-11-3 (7119)
C7H17N2O4P
           H2L
               Leu-Gly(P)
Leucylaminomethylphosphonic acid;
 -----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                     K1=3.627
    gl KNO3 25°C 0.10M C
                             1995HLa (58194)2953
                  B(ZnH-1L)=-4.12
******************************
C7H17N2O4PS
                       CAS 82611-22-1 (7392)
Methionyl-1-aminoethylphosphonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
          25°C 0.10M C K1=4.16
     gl KNO3
                             1997LBa (58199)2954
Data are for (S,S)-isomer. For (S,R)-isomer K1=3.85, B2=6.50
******************************
                         (101)
1,4,7-Triazacyclodecane; cyclo(.NHCH2CH2NHCH2CH2NHCH2CH2CH2.)
______
                            Reference ExptNo
Metal Mtd Medium Temp Conc Cal Flags Lg K values
______
     gl NaCl04 25°C 0.20M M H K1=10.3
                             1978KKb (58219)2955
DH1=-30.6 kJ mol-1
______
  gl KNO3 25°C 0.10M M K1=11.28
-----
          25°C 0.10M U K1=11.2
Zn++ gl KNO3
                             1975DDa (58221)2957
********************************
C7H19N06P2
           H4L
                         (7464)
N-(3-Methylbutyl)imino-bis(methylenephosphonic acid);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
______
```

```
gl KCl 25°C 0.20M C
Zn++
                        K1=9.37
                                 1999MKa (58268)2958
                       B(ZnHL)=16.04
                       B(ZnH2L)=20.86
                       B(ZnH-1L)=-0.20
                       B(ZnH-2L)=-11.61
*K(ZnL)=-9.57; K(ZnOH+L)=9.19; K(ZnOH+ZnL=Zn(OH)L+Zn)=-0.18.
**********************************
                Spermidine
                         CAS 124-20-9 (13)
1,5,10-Triazadecane, 4-Azaoctane-1,8-diamine; H2N.(CH2)3.NH.(CH2)4.NH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaClO4 20°C 0.10M U
Zn++
                                 1991WBa (58305)2959
                       B(ZnHL)=14.89
                       B(ZnHL2)=22.29
**********************************
C7H20N2O4P2
                           (7263)
1,3-Diaminopropane-N,N'-bis(methylenemethylphosphinic acid);
CH2(CH2NHCH2PO(OH)CH3)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
      gl R4N.X 25°C 0.10M M K1=7.35
                                1996BCa (58327)2960
Medium: 0.1 M Me4NNO3.
************************************
                          CAS 4741-99-5 (12)
1,4,8,11-Tetraazaundecane; H2N.CH2.CH2.NH.CH2.CH2.NH.CH2.CH2.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      gl oth/un 21°C var U
                                 1987DHa (58349)2961
Ternary complexes with glycine, alanine, en, pn, acetate.
______
Zn++ gl oth/un 25°C ? U K1=12.38
                                 1976NGa (58350)2962
______
Zn++ gl NaClO4 25°C ? U K1=12.38 1976NGe (58351)2963
______
Zn++ gl KCl 25°C 0.50M U K1=12.8 1970WBa (58352)2964
*******************************
N,N-Bis(2-aminoethyl)-1,3-diaminopropane; N(CH2CH2NH)2CH2CH2CH2NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KCl
            25°C 0.10M C
                        K1=13.35
                                 2003KDa (58365)2965
                       B(ZnH-1L)=1.61
*****************************
C8H5N02
                Isatin
                         CAS 91-56-5 (7844)
2,3-Indolinedione;
______
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 30°C 5% U M
                                 1995RRb (58405)2966
                        K(ZnA+L)=7.31
                        B(ZnAL)=15.17
Medium: 5% v/v EtOH/H2O, 0.10 M KNO3. H2A is thioglycolic acid.
______
Zn++ gl alc/w 30°C 5% M M K1=5.85 B2=10.61 1994RRa (58406)2967 Medium: 5% v/v EtOH/H2O, 0.10 M KNO3. K(ZnA+L)=5.58 (A=Gly), 5.56 (Ala),
5.53 (Val), 5.59 (en), 5.64 (bpy), 5.37 (oxalate), 5.44 (catecholate).
*************************
                      CAS 524-38-9 (8323)
C8H5N03
N-Hydroxyphthalimide;
             -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 30°C 5% U M
                                 1995RRb (58421)2968
                        K(ZnA+L)=3.95
                        B(ZnAL)=11.81
Medium: 5% v/v EtOH/H2O, 0.10 M KNO3. H2A is thioglycolic acid.
**********************************
                          CAS 603-11-2 (1171)
C8H5N06
3-Nitro-phthalic acid; O2N.C6H3(COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl oth/un 35°C dil U K1=3.33 1970NPb (58431)2969
H3L Murexide
                       (453)
Purpuric acid (Murexide is ammonium salt);
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ sp none 25°C dil C K1=5.02 2004AZa (58463)2970
H-point standard addition method. Competition with sulfate.
______
     sp non-aq 25°C 100% U TIH K1=5.00 B2=8.87 1995GSa (58464)2971
Medium: 10% w/w MeCN/DMSO. DH(K1)=-24.7 kJ mol-1, DS=-14 J K-1 mol-1
DH(K2) = -80.2, DS = -195
______
Zn++ sp none ? 0.0 U
                                 1957TVb (58465)2972
                 K(Zn+H2L)=9.32
-----
Zn++ sp oth/un ? 0.10M U
                                 1949SGa (58466)2973
                       K(Zn+H2L)=3.1
*******************************
            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
```

```
Zn++ gl diox/w 25°C 75% U K1=7.78 B2=15.03 1995UFa (58584)2974
Zn++ gl NaClO4 25°C 0.50M C K1=3.45 1993HTa (58585)2975
     gl NaClO4 25°C 0.50M C
Zn++ gl diox/w 30°C 75% U K1=6.15
                                  1977AHb (58586)2976
______
Zn++ cal non-aq 25°C 100% U M
                                  1972KKd (58587)2977
                        K(ZnL2+bpy)=1.95
                        K(ZnL2+A)=1.71
                        K(ZnL2+phen)=2.50
Medium: CHCl3. A=4,4'-dipyridyl.
Zn++ dis non-aq 25°C 100% U M
                                 1972KKd (58588)2978
                        K(ZnL2+bpy)=4.65
Medium: benzene
-----
    dis oth/un 25°C ? U M
                                  1967CWa (58589)2979
                        K(ZnL2+A)=8.07
                        K(Zn+2HL+A=ZnL2A+2H)=-0.27
A=tri-n-octylphosphine oxide
_____
Zn++ gl diox/w 30°C 75% U K1=7.75 B2=14.05 1965RGa (58590)2980
*******************************
C8H503F3S
                           CAS 65712-32-3 (5446)
             H2L
3-(2-Trifluoromethylfuryl)-2-mercaptopropenoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 0.10M U K1=10.33 B2=18.89 1977WVa (58718)2981
*******************************
                           CAS 17056-99-4 (3220)
C8H6N20
5-Hydroxyquinoxaline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 20°C 50% U K1=7.07 B2=12.78 1954IRa (58744)2982
Medium: 50% dioxan, I=0.3 M NaClO4
**********************************
C8H6N20
8-Hydroxycinnoline, (2-Hydroxybenzo)pyrimidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl diox/w 20°C 50% U
                       K1=6.93 B2=12.73 1954IRa (58765)2983
Medium: 50% dioxan, 0.3 M NaClO4
*********************************
             HL 8-Quinazolinol CAS 7757-02-2 (3221)
C8H6N20
8-Hydroxyquinazoline;
```

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 20°C 50% U K1=7.48 B2=14.44 1954IRa (58775)2984
Medium: 50% dioxan, 0.3 M NaClO4
***********************************
                          (6681)
9-Hydroxy-pyrido(1,2-a)pyrimidin-4-one;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=6.30 B2=11.89 1993YDa (58786)2985
Data also in 50% v/v dioxan/water. Electrolyte: 0.1M KNO3.
B1= 7.50, B2= 13.70.
********************************
                     CAS 53911-41-4 (3815)
C8H6N2S
4-(2'-Pyridyl)-1,3-thiazole;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.10M U K1=4.17 B2=7.77 1968EHa (58800)2986
B3=10.63
***********************************
                     CAS 53911-40-3 (3816)
C8H6N2S
5-(2'-Pyridyl)-1,3-thiazole;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp NaCl04 25°C 0.10M U K1=0.3 1965KSc (58807)2987
*********************************
C8H6O4 H2L Phthalic acid CAS 88-99-3 (113)
Benzene-1,2-dicarboxylic acid; C6H4(COOH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl oth/un 25°C 0.10M U K1=2.18 1989SCa (58915)2988
In 60\% \text{ v/v} EtOH/H20: K1 = 2.94
______
Zn++ gl oth/un 35°C .493M U K1=3.02 1975PAb (58916)2989
______
     EMF oth/un 25°C 0.0 U T H K1=2.893 1965NAa (58917)2990
Method: H electrode. 0-45 C. DH(K1)=13.4 kJ mol-1, DS=99.5 J K-1 mol-1
K1=7.635-0.03956T+0.00007937T^2
______
Zn++ gl oth/un 25°C 0.10M U K1=2.2 1960YYa (58918)2991
**************************
C8H7N02C12
                         CAS 13538-26-6 (6286)
3,5-Dichloro-2-hydroxyacetophenone oxime; Cl2(H0)C6H2.C(CH3):NOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl alc/w 27°C 75% U I K1=7.77 B2=14.15 1976LGa (59114)2992
Zn++
Data in 75% EtOH. Data also in 75% acetone and 75% dioxan
**********************************
C8H7N02S
            H2L
                           (5450)
3-(2-Pyridyl)-2-mercaptopropenoic acid; C5H4N.CH:C(SH).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 0.10M U K1=12.82 B2=19.61 1977WVa (59123)2993
**********************
                          CAS 3740-52-1 (5592)
2-(4-Nitrophenyl)ethanoic acid; NO2.C6H4.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 25°C 50% C M K1=2.01 1985BSd (59134)2994
                       K(Zn(phen)+L)=2.08
Medium: 50% v/v dioxan/H2O, 0.1 M NaClO4
********************************
C8H7N04
                          CAS 1450-76-7 (1143)
2-Hydroxy-5-nitroacetophenone; HO.C6H3(NO2).CO.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ sp diox/w 40°C 50% U K1=2.85 1975PSa (59140)2995
**********************************
C8H7N04S
                          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
___________
    gl diox/w 25°C 50% U M K1=1.78 1972SGa (59154)2996
                       K(Zn(bpy)+L) = 1.91
Medium: 50% dioxan, 0.1 M NaClO4
**********************************
                          CAS 18653-75-3 (3792)
C8H7N3
2-(2'-Pyridyl)imidazole;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 25°C 0.10M C
                       K1=4.77 B2=9.08 1992RKa (59177)2997
                       B3=12.36
                       B4=13.73
______
     EMF KNO3 25°C 0.10M U
                       K1=4.39 B2=8.96 1967EHc (59178)2998
                       B3=12.07
********************************
C8H7N3
                          CAS 16576-78-6 (3793)
4-(2'-Pyridyl)imidazole;
______
```

Metal	Mtd Me	edium	Temp C	onc Cal	Flags	Lg k	<pre> ⟨ values</pre>	;	Reference	ExptNo
Zn++	gl KN	NO3	25°C 0	.10M U			5.419 B 3.836	32=10.23	32 1967EHb	(59188)2999
**************************************			HL				CAS 145			*****
Metal	Mtd Me	edium	Temp C	onc Cal	Flags	Lg k	<pre>values</pre>		Reference	ExptNo
Zn++ ***********************************	******	*****	***** HL	******	******	****	******* CAS 102	******* 42-05-4		
Metal	Mtd Me	edium	Temp C	onc Cal	Flags	Lg k	<pre>values</pre>		Reference	ExptNo
Zn++	gl Na	aC104	25°C 0	.10M U		((7n)	(bpy)+L)		3CLc (592	66)3001
******** C8H8NO2Cl N-(4-Chlor			HL		******	****	CAS 546	******* 5-90-7		*****
Metal	Mtd Me	edium	Temp C	onc Cal	Flags	Lg k	<pre>values</pre>	;	Reference	ExptNo
Zn++	gl Na	aC104	25°C 0	.10M U			(phen)+L		34CMa (592	73)3002
Zn++ ***********************************	*****	*****	***** HL	******	******	****	******* CAS 617	******* '56-69-2	****** ! (4569)	•
Metal	Mtd Me	edium	Temp C	onc Cal	Flags	Lg k	values		Reference	ExptNo
Zn++ Medium: 70 ******* C8H8N2 2-Methylbe	% dioxa *****	an, 0. *****	1 M KC ***** L	1				******	******	(59279)3004 ******
Metal	Mtd Me	edium	Temp C	onc Cal	Flags	Lg k	<pre>values</pre>		Reference	ExptNo
Zn++ *******	_								•	•
C8H8N2O2 1-(2'-Hydr			H2L				(3821			
Metal	Mtd Me	edium	Temp C	onc Cal	Flags	Lg k	values	 ; 	Reference	ExptNo

```
sp alc/w 19°C 40% U
Zn++
                                    1966SSe (59322)3006
                          K(Zn+HL)=6.28
                          K(Zn+H2L)=4.41
Medium: 40% EtOH, 0.05 M NaClO4
      sp alc/w 19°C 28% U
Zn++
                                    1963HOc (59323)3007
                          K(?)=5.8
Medium: 28% EtOH, 0.025 M, acetate buffer
*******************************
                              (3822)
1-(2',4'-Dihydroxyphenyl)-4-oxo-2,3-diazabut-1-ene;
------
     Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
______
Zn++
      sp alc/w 19°C 28% U
                                    1963HOc (59347)3008
                          K(?)=4.08
                          K(?)=9.79
Medium: 28% EtOH, 0.025 M, acetate buffer
*********************************
C8H8N2O4S
3-(Tetrahydro-6-methyl-2,4-dioxo-5-pyrimidyl)-2-mercaptopropenoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
______
Zn++ gl diox/w 25°C 0.10M U K1=10.36 B2=19.29 1977WVa (59364)3009
*************************
C8H8N2O6S
                             CAS 15054-42-9 (3843)
N-(2'-Nitrobenzenesulfonyl)aminoethanoic acid; O2N.C6H4.SO2.NH.CH2.COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
______
      gl NaNO3 25°C 0.10M C
                                    2000SIa (59370)3010
                          B(ZnHL)=12.69
                          B(ZnH2L2)=25.99
                          B(ZnHL(bpy))=18.23
                          B(ZnH2L2(bpy))=31.3
B(ZnL(bpy))=12.05.
Zn++ gl alc/w 30°C 50% U
                                    1967GMb (59371)3011
                          K(Zn+H2L=ZnHL+H)=1.94
                          K(ZnHL+H2L=Zn(HL)2+H)=1.46
                          K(ZnHL2+H)=5.97
                          K(ZnL2+H)=7.60
Medium: 50% EtOH
**********************************
                             CAS 1215-64-1 (3844)
C8H8N2O6S
              H2L
N-(3'-Nitrobenzenesulfonyl)aminoethanoic acid; O2N.C6H4.SO2.NH.CH2.COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
______
```

```
gl alc/w 30°C 50% U
Zn++
                                 1967GMb (59379)3012
                        K(Zn+H2L=ZnHL+H)=2.18
                        K(ZnHL+H2L=Zn(HL)2+H)=1.46
                        K(ZnHL2+H)=5.83
                        K(ZnL2+H)=7.21
Medium: 50% EtOH
**********************************
                           CAS 1215-63-0 (3845)
N-(4'-Nitrobenzenesulfonyl)aminoethanoic acid; O2N.C6H4.SO2.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl alc/w 30°C 50% U
                                 1967GMb (59383)3013
                        K(Zn+H2L=ZnHL+H)=2.23
                        K(ZnHL+H2L=Zn(HL)2+H)=1.79
                        K(ZnHL2+H)=5.82
                        K(ZnL2+H)=7.06
Medium: 50% EtOH
*******************************
                          CAS 7152-24-1 (6200)
2-(Methylmercapto)benzimidazole;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 30°C 0.10M M
                                 1995RMa (59389)3014
                        KZn(bpy)+L)=8.20
                        K(Zn(phen)+L)=8.10
                        K(ZnA+L)=7.74
A is 1,2-diaminobenzene.
______
     gl NaClO4 30°C 0.10M M K1=9.14 1995RMa (59390)3015
C8H8N4
                 Hydralazine CAS 86-54-4 (3197)
1-Hydrazinophthalazine;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 37°C 0.15M U K1=3.79 B2= 8.12 1984AMb (59399)3016
                       B(ZnH-1L)=3.011
-----
Zn++ gl oth/un 22°C 0.10M U K1=4.9 B2=9.0 1957FEa (59400)3017
*******************************
C8H8N4OS
              L
                            (6097)
2-Acetylpyridinethiosemicarbazone; C5H4N.CO.CH:N.NH.CS.NH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaCl 37°C 0.15M C
                        K1=4.25 B2= 7.65 1976APb (59405)3018
                        B(ZnH-1L)=-0.43
                        B(ZnH-2L)=-6.34
```

B(ZnH-1L2)=3.32

```
The temperature and ionic strength are inferred, but not stated.
************************
                          CAS 128367-51-7 (4503)
1-Mercapto-1-methyl-3-(2-thienyl)prop-1-en-3-one;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 30°C 75% U K1=9.19 B2=18.22 1969UTa (59423)3019
Medium: 75% dioxan, 0.01 M Me4NI
-----
     gl diox/w 30°C 75% U K1=9.46 B2=18.70 1969UTa (59424)3020
*******************************
            HL 2-Acetylphenol CAS 118-93-4 (1888)
2-Hydroxyacetophenone; HO.C6H4.CO.CH3
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
Zn++ gl diox/w 40°C 50% U K1=6.30 1975PPa (59452)3021
*************************
                p-Toluic acid CAS 99-94-5 (1372)
             HL
4-Methylbenzoic acid; CH3.C6H4.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% U M K1=2.43
                                1968GPd (59497)3022
                       K(Zn(bpy)+L)=2.48
Medium: 50% dioxan, 0.1 M NaClO4
**********************************
             HL Phenylacetic CAS 103-82-2 (1361)
C8H802
Phenylethanoic acid; C6H5.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl alc/w 25°C 50% C I M K1=1.75
                                1985BSd (59535)3023
                       K(Zn(phen)+L)=1.96
Medium: 50% v/v EtOH/H20. In 50% dioxan: K1=2.26, K(Zn(phen)+L)=2.29
-----
                   Zn++
      gl KNO3 25°C 0.10M C I M K1=1.14
                                1985SMf (59536)3024
                       K(Zn(phen)+L)=1.05
Also data in 30, 50, 60, 70, and 90% (v/v) Ethanol/water and 10, 30, 50, 60,
70, 80, and 90% (v/v) dioxane/water.
********************************
C8H802
                         CAS 1004-72-4 (3190)
alpha-Methyltropolone;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=8.6 B2=15.7 1954BFb (59577)3025
```

C8H8O2 HL CAS 583-80-2 (3191) beta-Methyltropolone;	
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo	
Zn++ gl diox/w 30°C 50% U K1=8.4 B2=15.2 1954BFb (59588)302 B3=18.8	.6

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo	
Zn++ sp diox/w 25°C 50% C M K1=2.24 1979FFb (59618)3027 Medium: 50% dioxan, 0.1 M NaClO4. Data also for other related sulfides	
Zn++ gl diox/w 25°C 50% U M K1=2.04 1972SGa (59619)3028 K(Zn(bpy)+L)=2.20 Medium: 50% dioxan, 0.1 M NaClO4	
Zn++ gl oth/un 25°C 0.10M U K1=0.8 1962SYa (59620)3029 ************************************	
C8H802S HL 3-Thenoylaceton CAS 21808-13-9 (2736) 3-Thenoylacetone, 1-(3'-Thienyl)butane-1,3-dione; C4H3S.CO.CH2.CO.CH3	
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo	
Zn++ gl diox/w 30°C 75% U K1=10.0 B2=18.00 1965RGa (59644)303 ***********************************	0
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo	
Zn++ ISE KNO3 25°C 0.10M C K1=0.32 1972FGb (59650)3031 By competition with Ag+ using Ag ISE ************************************	
C8H802Se 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	
Zn++ ISE KNO3 25°C 0.10M C K1=0.60 1972FGb (59657)3032 By competition with Ag+ using Ag ISE ***********************************	
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo	

```
gl alc/w 25°C 50% M M K1=7.04
Zn++
                               1983ADb (59695)3033
                      K(Zn(phen)+L)=6.90
Medium: 50% v/v EtOH/H2O, 0.10 M NaNO3.
*****************************
            HL
                Mandelic Acid CAS 611-72-3 (80)
2-Phenyl-2-hydroxyethanoic acid; C6H5.CH(OH).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaCl04 25°C 2.0M U K1=1.36 B2= 2.58 1985MFa (59796)3034
By quinhydrone electrode, K1=1.40, B2=2.45.
______
                      K1=2.65 B2=4.97 1975KAd (59797)3035
Zn++ sp NaClO4 30°C 0.10M U
______
    EMF NaClO4 20°C 2.0M U
Zn++
                      K1=1.51 B2=2.58 1968FLa (59798)3036
                      B3=3.36
______
     oth NaClO4 20°C 2.0M U
                            B2=2.41 1965LFa (59799)3037
                      K1=1.48
                      B3=3.588
Method: optical rotation.
-----
     kin oth/un 25°C 0.0 U K1=2.26
                               1951BWa (59800)3038
*******************************
               m-Anisic acid CAS 586-38-9 (2804)
            HL
3-Methoxybenzoic acid; CH30.C6H4.COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                Reference ExptNo
______
Zn++ gl oth/un 25°C 0.10M U K1=0.9 1960YYa (59906)3039
*******************************
                         CAS 673-22-3 (3194)
C8H8O3
4-Methoxysalicylaldehyde; CH30.C6H3(OH).CH0
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl diox/w 30°C 75% U
                      K1=6.48 B2=12.38 1967KBb (59975)3040
Medium: 75% dioxan, 0.1 M NaClO4
***********************
            H2L
                m-Cresotic acid CAS 50-85-1 (1244)
4-Methylsalicylic acid; CH3.C6H3(OH).COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 25°C 50% M M K1=7.30
                               1983ADb (59992)3041
                      K(Zn(phen)+L)=7.16
Medium: 50% v/v EtOH/H2O, 0.10 M NaNO3.
********************************
                Phenoxyacetic CAS 122-59-8 (1153)
C8H8O3
            HL
Phenoxyethanoic acid; C6H5.O.CH2.COOH
______
```

Metal	Mtd Medium Temp Conc Cal F	lags Lg K values Reference ExptNo
Zn++ Data for 1	.0-45 C	H K1=0.73 1990AMb (60030)3042
Zn++ *******	gl oth/un 25°C 0.10M U	K1=0.5 1962SYa (60031)3043
C8H8O3S		CAS 3959-08-8 (4509)
Metal	Mtd Medium Temp Conc Cal F	lags Lg K values Reference ExptNo
Zn++	gl diox/w 25°C 50% U	M K1=1.96 1972SGa (60051)3044 K(Zn(bpy)+L)=1.89
	% dioxan, 0.1 M NaClO4	**********
C8H804	H3L coxyphenylethanoic acid; C6H	CAS 102-32-9 (1826)
		lags Lg K values Reference ExptNo
Zn++		K1=8.80 B2=15.17 1966APb (60066)3045
C8H804	HL 2-hydroxy-6-methylpyran-4-on	CAS 520-45-6 (4478)
Metal	Mtd Medium Temp Conc Cal F	lags Lg K values Reference ExptNo
Medium: 50	% dioxan, 0.1 M NaClO4	K1=3.78 B2=7.17 1971MAa (60077)3046
C8H804	L loxy-1,2-benzoquinone;	(601)
Metal	Mtd Medium Temp Conc Cal F	lags Lg K values Reference ExptNo
Zn++	nmr non-aq 34°C 100% U	M 1981KKc (60110)3047 K(ZnCl2+L)=2.62
	tromethane ***********	***********
C8H804S	HL hyl phenyl sulfone; HOOC.CH	CAS 3959-23-7 (4510)
Metal	-	lags Lg K values Reference ExptNo
Zn++	gl diox/w 25°C 50% U	M K1=1.87 1972SGa (60118)3048 K(Zn(bpy)+L)=1.83
	% dioxan, 0.1 M NaClO4 ************	***********
C8H805	H2L	CAS 5629-08-3 (679)

```
7-0xy-bicyclo[2.2.1]-hept-5-ene-2,3-dicarboxylic acid;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 37°C 0.15M C K1=4.119
                              1988HYa (60121)3049
                     B(ZnHL)=8.017
                     B(ZnHL2)=12.090
********************************
C8H9N
                       CAS 17618-94-9 (300)
2-Allylpyridine; C5H4N.CH2.CH:CH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
_____
Zn++ gl KNO3 25°C 0.10M U K1=1.6 1974ILa (60143)3050
********************
                        CAS 4822-44-0 (3240)
N-(Mercaptoacetyl)aniline (thioglycolanilide); C6H5.NH.CO.CH2.SH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     oth diox/w 30°C 70% U B2=16.80
                             1973BSa (60155)3051
Medium: 0.1 M KCl
          -----
Zn++ gl diox/w 30°C 75% U K1=10.38 B2=19.26 1961MAe (60156)3052
C-Phenylglycine CAS 2835-06-5 (6511)
2-Amino-2-phenylethanoic acid, 2-aminophenylethanoic acid; C6H5.CH(NH2)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     vlt NaClO4 25°C 1.0M C
Zn++
                    М
                              1999VKc (60169)3053
                     B(ZnLA)=5.20
                     B(ZnLA2)=8.35
                     B(ZnL2A)=10.64
Method: polarography. Medium pH: 8.5. A is 4-picoline.
   gl KNO3 25°C 0.10M M K1=4.13 B2=7.85 1990SMa (60170)3054
CAS 56-91-7 (3225)
2-Aminomethylbenzoic acid; H2N.CH2.C6H4.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 35°C 50% U K1=5.0 B2=11.1 1958YSa (60178)3055
******************************
C8H9N02
            HL
                         (6326)
2-Hydroxy-5-amino-acetophenone; (H2N)(H0)C6H3.CO.CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values
______
```

```
gl diox/w 40°C 50% U K1=6.65 1975PPa (60186)3056
Zn++
Data also for 5 other 5-substituted analogues
*************************
                  CAS 1726-86-9 (1487)
2-Hydroxy-5-methylbenzaldehyde oxime; CH3.C6H3(OH).CH:NOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 20°C 0.10M U K1=7.0 B2=14.30 1965BEb (60193)3057
***********************
                          CAS 17194-82-0 (1382)
2-Hydroxyacetophenone oxime; HO.C6H4.C(CH3):NOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 30°C 50% U
                       K1=5.79
                               1982UVa (60206)3058
______
Zn++ gl diox/w 30°C 75% U K1=9.19 1976IKa (60207)3059
Medium: 75% Dioxan/H2O, 0.1 M KNO3. Data also for 8 phenyl substituted
analogues (3-Me, 5-Me, 3-Cl, 5-Cl, 5-Br, 3-Br, 5-I, 5-NO2)
______
Zn++ gl diox/w 30°C 75% U K1=8.85 1958KVa (60208)3060
Medium: 75% dioxan, 0.1 M NaClO4
*********************************
                         CAS 1849-49-6 (5907)
C8H9N02
5'-Deoxypyridoxal
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M M K1=2.40 1990SMa (60243)3061
                      K(ZnL+H)=6.09
    gl KCl 25°C 1.00M C K1=2.33
K(ZnL+H)=7.10
______
                                1989MSb (60244)3062
*********************************
C8H9N02
             HL
                         CAS 119-68-6 (1275)
N-Methyl-anthranilic acid; CH3.NH.C6H4.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 35°C 50% U K1=3.3 B2=5.8 1958YSa (60261)3063
*******************************
                           (2591)
C8H9N02
             HL
N-Phenyl-N-acetohydroxamic acid; CH3.CO.N(OH)C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KCl 25°C 0.20M C K1=4.34 B2= 8.12 2000FEc (60278)3064 B(ZnH-1L2)=-1.9
**********************************
```

```
Phenyl-glycine CAS 103-01-5 (626)
N-Phenylaminoethanoic acid; C6H5.NHCH2COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 1.0M U M K1=4.48 B2= 7.73 1995KDa (60305)3065
                       K3=2.16
                       B(ZnLA)=6.50
                       B(ZnLA2)=9.10
                       B(ZnL2A)=10.48
Medium pH 8.50. HA is propanoic acid.
______
Zn++ gl NaClO4 25°C 0.10M U M
                                1984CMa (60306)3066
                      K(Zn(phen)+L)=3.43
______
                      B2=4.43 1984L0c (60307)3067
   gl alc/w 21°C 50% M
                      B(ZnH-1L)=-6.02
______
Zn++ gl alc/w 21°C 50% M
                      K1=3.07 B2=5.86 1984L0d (60308)3068
                       B(ZnHL)=9.99
______
Zn++ gl NaCl04 25°C 0.10M U M 1983CLc (60309)3069
                      K(Zn(bpy)+L)=3.33
______
Zn++ gl NaClO4 25°C 0.10M U K1=3.00
                            1979CXa (60310)3070
______
Zn++ gl oth/un 25°C 0.10M U K1=2.6
                               1959SYc (60311)3071
CAS 5330-97-2 (6248)
Phenylacetohydroxamic acid; C6H5.CH2.CO.NH.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ vlt KNO3 30°C 0.50M C K1=4.84
                               1983BNa (60324)3072
Method: polarography.
______
Zn++ gl NaClO4 30°C 0.10M U T H
                                1981RSc (60325)3073
Data for 30-50 C. DH(K1)=-21.5 kJ mol-1, DS(K1)=38 J K-1 mol-1.
K(Zn(bpy)+L)=5.47, DH=-19.6, DS=40; K(Zn(phen)+L)=5.50, DH=-20.2, DS=39.
______
     gl NaClO4 30°C 0.10M U M K1=5.67
                             B2=10.64 1980RSb (60326)3074
Zn++
                   K(Zn(phen)+L)=5.50
-----
Zn++ gl KNO3 30°C 0.10M U M K1=5.67 1980RSc (60327)3075
                       K(Zn(His)+L)=4.47
      gl NaClO4 30°C 0.10M U T H
                                1980RSe (60328)3076
DH(K1)=-21.5 \text{ kJ mol-1}, DS(K1)=38 \text{ J K-1 mol-1}; DH(K2)=-22.8, DS(K2)=20.
*****************************
C8H9N02S
                          CAS 104-18-7 (4575)
             HL
```

C8H9N02

HL

```
(4-Aminophenylthio)ethanoic acid; H2N.C6H4.S.CH2.COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.05M M K1=3.65 1975DPb (60367)3077
*******************************
         HL Pyridoxal CAS 65-22-5 (110)
C8H9N03
3-Hydroxy-5-(hydroxymethyl)-2-methyl-4-pyridinecarboxaldehyde;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 25°C 0.10M C K1=2.32 1981TMe (60421)3078
Zn++ gl KCl 25°C 0.50M U M K1=2.32 1966LHa (60422)3079
                        B(ZnL(Gly))=8.43
                        B(ZnL2(Gly)2)=16.86
                        K(ZnL(Gly)+H)=7.34
**********************************
                          CAS 26071-07-8 (209)
5-Methylsalicylhydroxamic acid; CH3.C6H3(OH).CO.NH.OH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
EMF diox/w 30°C 50% U K1=4.76 1977DJa (60435)3080
Medium: 50% dioxan, 0.1 M NaClO4
**********************************
C8H9N03S
                           CAS 72678-98-9 (8333)
2-(2-Furanyl)-4-thiazolidinecarboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
gl KNO3 30°C 0.10M U IH K1=5.26 B2= 9.89 1983RKb (60456)3081
At I=0.0, K1=5.43, K2=4.74. Data for 25-50 C. DH(K1)=-30.7 kJ mol-1,
DS(K1)=22.3 \text{ J K-1 mol-1; } DH(K2)=-27.0, DS(K2)=13.4.
*************************
             H2L
                 Mimosinic acid
3-(3-Hydroxy-4-oxo-1,4-dihydropyridin-1-yl)propanoic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 37°C 0.15M C
                        K1=6.86 B2=12.31 1979SPd (60466)3082
                        K(ZnL+H)=3.9
                        K3 <1.6
*********************************
                          CAS 78257-51-9 (887)
4-Ethoxypyridine-2-carboxylic acid N-oxide; C2H50.C5H3N-O(COOH)
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 30°C 0.10M U T K1=3.80 B2=6.42 1982RRa (60476)3083
```

```
*******************************
C8H9N04
             H2L
                              (4520)
Dehydroethanoic acid oxime;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 35°C 50% U
                                   1971MAa (60483)3084
Zn++
                         K(Zn+HL)=3.57
                         K(Zn+2HL)=6.60
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
C8H9N04S
                            CAS 7717-21-7 (3846)
N-(Phenylsulfonyl)aminoethanoic acid; C6H5SO2NHCH2COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      vlt NaClO4 25°C 0.10M U
                                   1991GBb (60513)3085
                         B(Zn(bpy)L)=8.96
                         K(Zn+bpy+H-1L)=11.98
                         K(Zn(bpy)+L)=3.66
                         K(Zn(bpy)+H-1L)=6.68
Zn++ gl alc/w 30°C 50% U
                                   1967GMb (60514)3086
                         K(Zn+H2L=ZnHL+H)=1.87
                         K(ZnHL+H2L=Zn(HL)2+H)=2.10
                         K(ZnHL2+H)=6.61
                         K(ZnL2+H)=7.88
Medium: 50% EtOH
***********************************
C8H9N05S
             H2L
                              (6513)
2-Amino-4-sulfobenzeneethanoic acid; NH2.CH(C6H4HSO3)COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KNO3 25°C 0.10M M K1=4.18 B2=7.49 1990SMa (60521)3087
***********************
                            CAS 58157-03-2 (212)
C8H9N2O2F3S
2-(Trifluoromethanesulfonamidoethyl)pyridine; C5H4NCH2CH2S(:0)2NHCF3
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 30°C 45% M K1=7.4(2) B2=8.6(3) 1984MYa (60528)3088
******************************
                 Ftorafur CAS 17902-23-7 (6866)
C8H9N2O3F
              HL
5-Fluoro-1-(tetrahydro-2-furfuryl)uracil, tegafur;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M M
                                   1993SKe (60536)3089
                         K(ZnA+L)=4.6
```

```
A:1,4,7,10-Tetraazacyclododecane.
***********************************
                         CAS 7471-05-8 (3198)
2,2'-Pyridylimidazoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% U K1=6.0 B2=11.0 1956HFa (60541)3090
(4573)
C8H9N3OS
1-Benzoylthiosemicarbazide; C6H5.CO.NH.NH.CS.NH2
 Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 80% U TIH K1=8.24 1985BAb (60549)3091
In 0.067 M KCl. When I=0.133, K=8.40; I=0.200, K=8.60. DH=-34.6 kJ mol-1,
DS=37.5 J K-1 mol-1
*********************************
                         CAS 5351-90-6 (2103)
Salicylidenethiosemicarbazone; HO.C6H4.CH:N.NH.CS.NH2
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 20°C 50% U K1=6.9 B2=12.8 1959HOa (60555)3092
Uramildiacetic CAS 13055-06-5 (185)
5-Amino-2,4,6-trioxo-1,3-perhydrodiazimino-N,N-diethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
           25°C 0.1M C H
     cal KNO3
                               1981CSb (60596)3093
DH(K1)=-19.7 kJ mol-1, DS=167 K J mol-1
-----
   gl KNO3 25°C 0.10M U T M
                               1981SVa (60597)3094
                      K(ZnL+Gly)=3.89
At 20 C: K(ZnL+Gly)=3.93; 30 C: 3.78; 40 C: 3.69
Zn++ gl R4N.X 25°C 0.10M C K1=13.39 B2=16.69 1975JTa (60598)3095
     oth KNO3 25°C 0.10M U K1=12.21
                              1972FVa (60599)3096
-----
Zn++ gl oth/un 20°C 0.0 U K2=3.2 1948SBa (60600)3097
C8H10N06P
            H3L
               Codecarboxylase CAS 41468-25-1 (2555)
Pyridoxal-5-phosphoric acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=3.75 1990SMa (60697)3098
Zn++ gl KNO3 25°C 0.10M M
                      K(ZnL+H)=6.53
```

```
25°C 1.00M C
                       K1=3.47
Zn++
      gl KCl
                                 1984SMc (60698)3099
                        K(ZnL+H)=6.71
                        K(ZnHL+H)=5.17
Ternary complexes with 2-amino-3-phosphonopropionic acid.
      gl KCl
            25°C 0.50M U
                      M K1=3.6
                                 1970FEa (60699)3100
Zn++
                        K(ZnL+H)=6.30
                        K(ZnHL+H)=5.60
                        B(ZnL(Gly))=10.28
                        B(ZnL(Gly)2)=13.79
B(ZnL2(Gly)2)=18.05, K(ZnL(Gly)+H)=7.45, K(ZnHL(Gly)+H)=5.44,
K(ZnL2(Gly)2+H)=8.32, K(ZnHL2(Gly)2+H)=6.94. Data also for Ala complexes.
***************************
C8H10N2O2
                          CAS 16947-63-0 (3828)
2,6-Dimethyl-4-nitroaniline; (CH3)2.C6H2(NO2).NH2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp non-ag 25°C 100% U
                      М
                                 1965SSe (60728)3101
                        K(ZnC12+L)=0.36
Medium: acetone
*******************************
                          CAS 2444-13-5 (2763)
2-(2'-Pyridyl)-2-aminopropanoic acid; C5H4N.C(CH3)(NH2)COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 25°C 0.10M M K1=4.93 B2=9.05 1976RNa (60732)3102
B2=9.74 (racemic ligand)
C8H10N2O2
                          CAS 21203-55-4 (5518)
3-Nitro-2,4,6-trimethylpyridine;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.50M U K1=1.4
                                 1983BEb (60738)3103
********************
                            (3227)
N-(2'-Pyridylmethyl)glycine; C5H4N.CH2.NH.CH2.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.10M U K1=7.6 1965LCa (60742)3104
Zn++ gl KNO3
*********************************
                Mimosine CAS 2116-55-4 (2308)
C8H10N2O4
            H2L
2-Amino-3-(3-hydroxy-4-oxo-1,4-dihydropyridin-1-yl)propanoic acid;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
K1=6.5 B2=12.27 1979SPd (60753)3105
    gl KNO3 37°C 0.15M C
Zn++
                         B(ZnHL)=13.84
                         B(ZnHL2)=19.76
                         B(ZnH2L2)=26.77
                         B3=14.5
Also B(Zn2L)=10.21; B(Zn2L2)=19.01; B(Zn2HL2)=23.88; B(Zn2L3)=22.8.
**********************************
                  Isomimosine
             H2L
                           CAS 60384-61-4 (2314)
2-Amino-3-(5-hydroxy-4-oxo-1,4-dihydropyridin-2-yl)propanoic acid;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 37°C 0.15M C
Zn++
                                B2=12.74 1980SHb (60760)3106
                          K1=7.0
                         B(ZnHL)=14.88
                         B(ZnHL2)=21.07
                         B(ZnH2L2)=28.78
                         B2=14.9
B(Zn2HL2)=25.89; B(Zn2L2)=20.4; B(Zn2L)=10.1
********************************
                            CAS 538-28-3 (2599)
C8H10N2S
2-Benzyl-2-thiopseudourea; C6H5.CH2.S.C(:NH)(NH2)
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      ISE mixed 25°C 82% U K1=4.68 B2=6.20 1979TBb (60765)3107
Medium: 82% formamide
***********************************
                              (2598)
C8H10N2S
2-Tolvlthiocarbamide; CH3.C6H4.NH.CS.NH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      ISE mixed 25°C 82% U K1=1.75
                                   1979TBb (60770)3108
Medium: 82% formamide
************************************
                            CAS 5756-79-6 (4578)
C8H10N3OC1
3-Ethyl-3-hydroxy-1-(2-chlorophenyl)triazene;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl diox/w 25°C 70% U K1=5.94 B2=10.29 1968DSa (60782)3109
Medium: 70% dioxan, 0.1 M KCl
**********************************
C8H10N3OCl
                            CAS 5756-78-5 (4579)
3-Ethyl-3-hydroxy-1-(4-chlorophenyl)triazene;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
      gl diox/w 25°C 70% U K1=6.35 B2=10.96 1968DSa (60787)3110
Medium: 70% dioxan, 0.1 M KCl
```

```
C8H10N4O2
                 Cyclo-Gly-His
                            (1685)
             HL
Cyclo-(glycyl-histidyl)
             -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 25°C 0.10M C H K1=1.71
                                 1994AIa (60806)3111
DH(K1)=-10.0 \text{ kJ mol}-1, DS(K1)=-0.8 \text{ J K}-1 \text{ mol}-1.
______
Zn++ gl KNO3 25°C 0.20M U K1=2.25 B2=3.84 1985KIb (60807)3112
*******************************
C8H1005
                           CAS 145-73-7 (138)
7-0xa-bicyclo[2.2.1]-heptan-2,3-dicarboxylic acid;
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 30°C 0.10M U K1=4.79 1995KFa (60862)3113
*******************************
5,6-Dihydroxy-7-oxa-bicyclo[2.2.1]heptan-2,3-dicarboxylic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 30°C 0.10M U K1=4.16 1995KFa (60883)3114
CAS 137172-86-2 (6612)
             H4L
SS-Oxydisuccinic acid; O(CH(COOH)CH2.COOH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KCl
                        K1=6.62 1992MMa (60898)3115
            25°C 0.10M C
Zn++
                        K(ZnL+H)=3.64
                        K(ZnHL+H)=2.96
                        K(ZnH2L+H)=2.49
                        K(Zn+HL)=4.29
K(Zn+H2L)=2.46, K(Zn+H3L)=1.55
*********************************
                           CAS 84852-72-2 (6611)
C8H1009
             H41
meso-Oxydisuccinic acid; O(CH(COOH)CH2.COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
    gl KCl 25°C 0.10M C
                        K1=7.60
                                  1992MMa (60910)3116
                        K(ZnL+H)=3.95
                        K(ZnHL+H)=2.24
                        K(ZnH2L+H)=1.6
                        K(Zn+HL)=5.58
K(Zn+H2L)=2.97, K(Zn+H3L)=0.63
***********************************
C8H10010
                            (5894)
             H4L
```

```
1-Hydroxy-3-oxapentane-1,2,4,5-tetracarboxylic acid;
HO.CH(COOH).CH(COOH).O.CH(COOH).CH2(COOH)
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
___________
Zn++ gl KCl 25°C 0.10M C K1=6.31 1989MMd (60922)3117
                     K(ZnL+H)=3.47
                    K(ZnHL+H)=2.85
*********************************
                      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
______
Zn++ gl KNO3 25°C 0.10M U K1=1.3 1974ILa (60955)3118
*************************
C8H11N
                       CAS 529-21-5 (2002)
3-Ethyl-4-methylpyridine; CH3.C5H3N.C2H5
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U K1=1.58 B2=2.71 1975LPc (60971)3119
B3=3.36
**********************************
              CAS 20609-07-8 (298)
C8H11NO
2-(2'-Hydroxypropyl)pyridine; C5H4N.CH2.CH(OH).CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KNO3 25°C 0.10M U K1=1.45 1974ILa (60995)3120
****************************
2-(2-Pyridyl)-2-propanol; CH3.C(OH)(C5H4N).CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=1.88 1981CBa (61001)3121
*******************
              Tyramine CAS 51-67-2 (1015)
2-(4-Hydroxyphenyl)ethylamine; HO.C6H4.CH2.CH2.NH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 1.00M C M K1=8.52 1976RSd (61011)3122
                    K(Zn(ATP)+L)=7.01
CAS 2859-67-8 (2037)
3-(3-Pyridyl)-1-propanol; C5H4N.CH2.CH2.CH2OH
-----
Metal
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
Zn++ gl KNO3 25°C 0.50M U K1=1.00 B2=2.08 1981LRa (61024)3123
H2L
                Octopamine
                         CAS 770-05-8 (2761)
1-(4-Hydroxyphenyl)-2-aminoethanol; H2N.CH2.CH(OH).C6H4.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 1.00M C M
                                1976RSd (61038)3124
                       K(Zn+HL)=5.96
                       K(Zn(ATP)+HL)=4.53
*******************************
            H2L
                Dopamine
                         CAS 579-59-9 (251)
2-(3',4'-Dihydroxyphenyl)ethylamine; (HO)2.C6H3.CH2.CH2.NH2
------
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                    M K1=11.43
Zn++ gl NaClO4 37°C 0.15M U
                               1995NAc (61063)3125
                       B(ZnHL)=18.89
                       B(ZnLCu)=19.87
                       B(ZnLNi)=14.52
.-----
Zn++ gl KCl 25°C 0.20M C
                       B2=18.05
                                1979KGa (61064)3126
                       B(ZnHL)=20.21
                       B(ZnH2L2)=38.93
                       B(ZnHL2)=28.67
.-----
    gl KNO3 25°C 1.00M C M
                                1976RSd (61065)3127
                     K(Zn(ATP)+L)=10.05
 -----
     gl NaNO3 20°C 0.50M U
                                1974GSa (61066)3128
                      B(ZnHL)=19.33
************************************
                Vitamin B6 CAS 65-23-6 (254)
5-Hydroxy-6-methyl-3,4-pyridinedimethanol, Pyridoxine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                     K1=1.72 B2= 2.93 1997KKb (61108)3129
      vlt NaClO4 25°C 1.0M C
Method: polarography. Medium pH 8.50.
*********************************
                Noradrenaline
                         CAS 138-65-8 (253)
            H2L
Norepinephrine, 3,4-Dihydroxyphenylethanolamine; (HO)2C6H3.CH(CH2.NH2).OH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KCl 25°C 0.20M C
                       B2=17.82
                                1981GKb (61148)3130
                       B(ZnHL)=19.12
                       B(ZnH2L2)=36.78
                       B(ZnHL2)=27.48
```

```
B(ZnH-1L2)=6.38
```

```
Zn++ gl KNO3 25°C 1.00M C M
                                    1976RSd (61149)3131
                          K(Zn+HL)=9.31
                          K(Zn(ATP)+L)=8.35
______
Zn++ gl NaNO3 20°C 0.50M U
                                    1974GSa (61150)3132
                          B(ZnHL)=17.65
________
             25°C 0.10M U K1=10.69 B2=19.79 1966JNa (61151)3133
       gl KCl
K1 adjusted to give hypothetical microscopic constant
**********************************
                             CAS 7408-20-0 (2608)
              H4L
Amino-di(butanedioic acid); HN(CH(COOH)CH2.COOH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     cal KNO3 25°C 0.50M U
                                    2002LCa (61194)3134
                          DH(K1) = -8.46 \text{ kJ mol} -1
                          DH(B2) = -19.09
                          DH(Zn+HL)=+13.91
for I=1.0 \text{ M}: DH(K1)=-8.64; DH(B2)=-20.13; DH(Zn+HL)=+9.79
                 K1=10.30 1994VKa (61195)3135
     gl oth/un 25°C 0.10M U
                          K(Zn+HL)=4.16
**********************************
C8H11N08P2
                               (6894)
N-(4-Carboxyphenyl)aminomethylenedi(phosphonic acid); HOOC.C6H4.NH.CH(PO3H2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
      gl KNO3 25°C 0.10M U
                          K1=11.09
                                    1990GKa (61224)3136
                          K(Zn+HL)=9.10
                          K(Zn+H2L)=5.25
*********************************
C8H11N3O
                             CAS 5956-70-7 (4529)
3-Hydroxy-3-methyl-1-(4-tolyl)triazene; CH3.C6H4.N:N.N(OH).CH3
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
       gl diox/w 25°C 70% U K1=7.46 B2=13.32 1970DSb (61242)3137
Medium: 70% dioxan, 0.1 M KCl
*********************************
C8H11N3O2
                             CAS 5756-72-9 (4533)
3-Hydroxy-3-methyl-1-(4'-methoxyphenyl)triazene; CH30.C6H4.N:N.N(OH).CH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 25°C 70% U K1=7.84 B2=13.90 1970DSb (61255)3138
Medium: 70% dioxan, 0.1 M KCl
```

```
***********************************
C8H11N3O3
                          CAS 2497-02-1 (3230)
Acetyl-L-histidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KNO3 25°C 0.10M M K1=2.91 B2=5.74 1993GVa (61270)3139
______
                        K1=2.61 1989BKa (61271)3140
Zn++ gl KCl 25°C 0.20M C
                      K(Zn+HL=ZnL+H)=-4.48
______
Zn++ gl oth/un 25°C 0.16M U
                       K1=2.50 B2=4.80 1960MEa (61272)3141
                       K3=2.15
                       K4=1.8
*******************************
                Acyclovir CAS 59277-89-3 (8696)
             HL
2-Amino-1,9-dihydro-9-[(2-hydroxyethoxy)methyl]-6H-purin-6-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ cal NaNO3 25°C 0.10M C HM
                                 2001HCa (61290)3142
                       K(Zn+HL)=0.71
DH(Zn+HL)=-18.6 \text{ kJ mol}-1, DS(Zn+HL)=-50 \text{ J K}-1 \text{ mol}-1.
********************************
             HL CAS 22767-90-4 (1249)
C8H1102F3
1,1,1-Trifluoro-5,5-dimethyl-2,4-hexanedione; F3C.CO.CH2.CO.CH(CH3)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=7.27 B2=13.73 1972UDa (61298)3143
Medium: 75% v/v dioxan, 0.01 Me4NClO4
********************
C8H12N2
                          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
______
Zn++ gl diox/w 35°C 50% U T H K1=3.92 B2=7.68 1966WRb (61365)3144
Medium: 50% dioxan, 0.1 M KNO3. K1=4.67(15 C),3.93(25 C); K2=4.58(15 C),
3.81(25 C). By calorimetry: DH(B2)=-16.3 kJ mol-1, DS=93.6 J K-1 mol-1(25 C)
*************************
2-Aminomethyl-N-2'-hydroxyethylpyridine; C5H4N.CH2.NH.CH2.CH2.OH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
Zn++ gl oth/un 25°C 0.10M U K1=5.2 1964LMb (61376)3145
*******************************
                Pyridoxamine CAS 85-87-0 (1175)
4-(Aminomethyl)-5-hydroxy-6-methyl-3-pyridinemethanol;
```

Metal	Mtd	Medium	Temp	Conc	Cal	_		Reference ExptNo
Zn++						М	B(ZnHL(Gly)2) B(ZnH4L2(Gly)	1983ERa (61399)3146 =23.30)=47.910
Zn++ A=imidazol	gl	NaNO3					B(ZnH2LA4)=34 B(ZnH2LA2)=28 B(ZnLA3)=16.2 B(ZnL2A)=16.1	3.125 93
	_							=11.874 1982ESa (61401)314
Zn++								8.92
Zn++	vlt	NaC1	25°C	0.10	 M U		K1=6.60 B2 B3=13.60 B4=15.56	=11.16 1977ERa (61403)315
	****	******	***** HL				******	1957GMa (61404)3151 ************* 16-6 (6858)
Metal	 Mtd	Medium	Temp	Conc	 Cal	Flags	Lg K values	Reference ExptNo
Zn++	gl	NaNO3	37°C	0.10N	 M U	M	K1=1.90 B(Zn(gly)L)=7 *K(Zn(gly)L)= B(Zn(bpy)L)=7 *K(Zn(bpy)L)=	:-7.84 '.41
B(ZnAL)=4.	76.	A is im:	idazo:	le			(=(=p))=)	
Zn++	Ü	NaNO3					K1=1.90 *K(ZnL(H2O)2)	
********* C8H12N2O3S d-Bisnorbi			***** HL	****	****	*****		8-98-2 (4582)
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Zn++	gl	diox/w	25°C	50%	U	M	K1=2.40 K(Zn(bpy)+L)	1969SMc (61466)3154 = 2.26

```
Medium: 50% dioxan, 0.1 M NaClO4
********************************
                               CAS 43101-36-6 (669)
Glycylglycine-N,N-diethanoic acid; (HOOC.CH2)2N.CH2.CO.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                            K1=7.94 1974MMb (61475)3155
      gl KNO3 25°C 0.10M C
                           K(ZnL+H)=3.01
****************************
                                (7238)
(Pyrazol-1-yl)dihydro(3,5-dimethylpyrazol-1-yl)borate; C3H3N2.BH2.C3HN2(CH3)2-
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ dis non-aq 25°C 100% U
                                      1996KSa (61542)3156
                          K(Zn+2HL=ZnL2(org)+2H)=3.02
By solvent extraction into CHCl3
********************************
                   Gly-His
C8H12N4O3
               HL
                              CAS 3486-76-8 (273)
Glycyl-histidine; H2N.CH2.CO.NH.CH(CH2.C3H3N2).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      gl KNO3 25°C 0.10M U K1=3.91
                                      1992LPc (61581)3157
                          B(Zn2H-1L2)=-2.83
-----
Zn++ gl KNO3 25°C 0.30M C
                           K1=3.85 B2=8.85 1985RDa (61582)3158
                           B(ZnH-1L)=-2.14
                           B(ZnHL)=11.54
                           B(ZnH-1L2)=1.31
Zn++ gl KNO3 25°C 0.10M C M B2=7.73
                                      1984ACa (61583)3159
                            B(ZnHL)=10.70
                            B(Zn2L2)=11.11
                            B(Zn2H-1L2)=4.08
                            B(Zn2H-2L2)=-2.62
B(CuZnH-1L)=6.71; B(CuZnH-1L2)=11.3; B(CuZnH-2L2)=4.3
                     Zn++ gl KCl
                        M K1=3.98 B2=8.03 1983FSc (61584)3160
              25°C 0.20M C
                            B(ZnHL)=10.87
                            B(ZnH-1L)=-2.75
                            B(ZnH-1L2)=0.37
                            B(ZnH-2L)=-12.66
B(ZnHL(His))=17.62; B(ZnL(His))=10.32; B(ZnH-1L(His))=1.92
Zn++ gl KNO3 37°C 0.15M U
                            K1=3.65 B2=6.89 1975APb (61585)3161
                            K(2ZnL=Zn2L2)=3.30
                            K(Zn2H-1L2+H)=7.39
                            K(Zn2H-2L2+H)=6.19
```

```
************************************
C8H12N4O3
               His-Gly
                        CAS 2578-58-7 (274)
            HL
Histidyl-glycine; H2N.CH(CH2.C3H3N2).CO.NH.CH2.COOH
  -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KNO3 35°C 0.10M C T K1=4.99
                             2003RRa (61619)3162
Data for 35 and 45 C.
______
Zn++ gl KCl 25°C 0.20M C K1=5.07 B2=9.54 1983FSc (61620)3163
______
                      K1=4.25 B2=8.46 1975APb (61621)3164
Zn++ gl KNO3 37°C 0.15M U
                     K(Zn+HL)=2.37
______
Zn++ gl none 21°C 0.0 M K1=4.86 B2=9.54 1974YAa (61622)3165
*******************************
C8H12N5O4P
           H2L
                        CAS 106941-25-7 (6693)
9-(2-(Phosphonylmethoxy)ethyl)adenine; H2O3P.CH2.O.CH2.CH2.adenine
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.10M M M K1=1.96
                               2000KLb (61642)3166
                      K(PtLA+Zn)=1.96
A=diethylenetriamine
***********************************
                         CAS 1127-08-8 (72)
Cyclohexane-1,1-dicarboxylic acid; C6H10.(COOH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 0.10M U K1=2.26 1972RVh (61701)3167
*******************************
                         CAS 6018-58-3 (960)
C8H12O4
Hex-1-ene-6-dioic acid; CH2:CH.CH2.CH2.CH2.CH(COOH)2
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=2.68 1975IPa (61724)3168
*******************************
                        CAS 2305-32-0 (2225)
L-trans-Cyclohexane-1,2-dicarboxylic acid; C6H10.(COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     vlt oth/un 25°C 0.1M U K1=2.3
                              1995FFa (61729)3169
*********************************
                         (4539)
(1-Acetonyl)ethylideneiminopropanoic acid;
-----
Metal
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
```

```
Zn++ EMF oth/un ? ? U K1=7.42
                                1972MGb (61746)3170
*********************************
C8H13N06
            H3L
2-Amino-2-carboxypropane-N,N-diethanoic acid; HOOCC(CH3)2N(CH2COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 20°C 0.10M U K1=8.89 1974RMf (61750)3171
Zn++ gl KCl 20°C 0.10M U K1=12.45 1966IMa (61751)3172
*********************************
C8H13N06
            H3L
                           (5681)
2-Aminobutanoic-N,N-diethanoic acid; CH3CH2CH(COOH)N(CH2COOH)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            20°C 0.10M U K1=10.35 1974RMf (61778)3173
Zn++ gl KNO3
*******************************
C8H13N06
            H3L
                           (3232)
N-(Carboxymethyl)iminodipropanoic acid; HOOC.CH2.N(CH2.CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 30°C 0.10M U K1=8.0
                                1953CMa (61805)3174
*************************
C8H13N06S
                           (5675)
2-Mercapto-1-aminoethane-N,N,S-triethanoic acid; HOOC.CH2.S.CH2.CH2.N(CH2COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaClO4 25°C 0.10M U
                       K1=10.92
                               1975P0a (61813)3175
                       K(Zn+HL)=3.05
********************************
C8H13N3O2
            HL DiMe-Histidine
                          (1193)
N-Dimethylhistidine; (CH3)2N.CH(CH2.C3H3N2).COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----i
Zn++ gl KNO3 25°C 0.10M M K1=3.53 B2=6.65 1993GVa (61859)3176
-----
Zn++ gl KCl 25°C 0.10M C
                       K1=6.339 B2=9.04 1976RIa (61860)3177
                       K(Zn(DL-L))=6.344
                       B(Zn(DL-L)2)=9.68
                       B(Zn(OH)L)=10.60
********************************
                           (7462)
9-[2-(Phosphonomethoxy)ethyl]-2,6-diaminopurine;
-----
Metal
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
gl NaNO3 25°C 0.10M M
                       K1=2.78
Zn++
                                1999BSa (61870)3178
                       K(Zn+HL)=1.56
************************************
C8H14N2
                            (6727)
1-Butyl-2-methylimidazole
 -----
    Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M C
                       K1=1.20
                              B2=4.96 1993BKc (61886)3179
                        B3=6.97
                        B4=9.73
                        B5=10.64
**********************************
C8H14N2O
                            (6728)
1-Butyl-2-hydroxymethylimidazole
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 25°C 0.50M C
                       K1=2.22 B2=4.97 1993BKc (61891)3180
                       B3=6.41
                        B4=8.06
********************************
                           (6599)
2,3-Dehydro-N-glycyl-leucine; NH2.CH2.CO.NH.C(COOH):CH.CH(CH3)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KCl 25°C 0.10M C
                       K1=3.13 B2=5.84
                                    1994JBa (61903)3181
                        B(ZnH-1L)=-5.29
*******************************
C8H14N2O3
                            (6601)
2,3-Dehydro-N-valyl-alanine; NH2.CH(CH(CH3)2)CO.NH.C(COOH):CH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M C
                        K1=2.37
                                 1994JBa (61908)3182
                        B(ZnH-1L)=-4.18
                        B(ZnH-1L2)=-2.03
                        B(ZnH-2L2)=-10.41
*********************************
             HL
                Ala-Pro
                         CAS 13485-59-1 (256)
Alanyl-proline; H2N.CH(CH3).CO.NC4H7.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 20°C 0.20M U K1=3.28 B2=6.21 1982KRc (61914)3183
*******************************
                          CAS 6422-36-2 (263)
                 Pro-Ala
Prolyl-alanine; C4H8N.CO.NH.CH(CH3).COOH
```

```
Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
 ______
     gl KCl
             20°C 0.20M U K1=3.69 B2=7.32 1982KRc (61925)3184
************************
C8H14N2O3
                           CAS 21561-97-7 (4448)
dl-Bisnordethiobiotin;
-----
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                      M K1=2.30
      gl diox/w 25°C 50% U
                                  1969SMc (61933)3185
                        K(ZnA+bpy)=2.29
Medium: 50% dioxan, 0.1 M NaClO4
*******************************
C8H14N2O4
                           CAS 124099-98-5 (5607)
             H2L
1,4-Piperazine-N,N'-diethanoic acid; HOOC.CH2.C4H8N2.CH2.COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
-----
Zn++
             20°C 0.10M U K1=3.05
      EMF KCl
                                  1963IPb (61940)3186
Method: H electrode
***********************************
             H2L
                           CAS 55033-06-2 (8139)
C8H14N2O4
Azetidine-2-carboxy-1-(2-aminobutaneoic acid)
  Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
-----
      gl KNO3
             25°C 0.10M C K1=10.25
                                  1989ARa (61950)3187
Zn++
Fer another racemate: K1=9.05
*********************************
C8H14N2O6P2
                             (7465)
N-(3-Pyridylmethyl)imino-bis(methylphosphonic acid);
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
      gl KCl
             25°C 0.20M C
                                  1999MKa (61964)3188
Zn++
                         K1=9.21
                        B(ZnHL)=14.92
                        B(ZnH2L)=19.66
                        B(ZnH3L)=23.95
                        B(ZnH-1L)=-0.47
*K(ZnL)=-9.68; K(ZnOH+L)=8.92; K(ZnOH+ZnL=Zn(OH)L+Zn)=-0.29.
*********************************
C8H14N40
                 Carcinine
                             (260)
B-Alanyl-histamine; NH2.CH2.CH2.CO.NH.CH2CH2.C3H3N2
------
      Mtd Medium Temp Conc Cal Flags Lg K values
Metal
                                    Reference ExptNo
                         K1=3.53
      gl NaClO4 25°C 0.10M C
                                  1994GHb (61975)3189
                        B(ZnHL)=10.75
**********************************
```

C8H14N4O Sarcosyl-h:	istar	mine	L			(67	26)		
Metal	Mtd	Medium	Temp	Conc Ca	al Flags	Lg K valu			
						B(ZnHL)=10	B2=6.31 .01		(61982)3190
********* C8H14N4O5 Glycyl-Gly			HL	Tetra	aglycine	CAS 6	37-84-3	(1849)	
Metal	Mtd	Medium	Temp	Conc Ca	al Flags	Lg K valu	es	Reference	ExptNo
Zn++				0.80M l		K1=2.96 K(Zn+HL)=0		72RLb (620	14)3191
Medium: 0.8	8, 0	.2 Zn(N(03)2						
Zn++						K1=3.14			
 Zn++ Medium: Zn: ******	gl SO4	oth/un	25°C	0.01M (J	K1=2.9	19	54PEa (620	16)3193
C8H14OS 1-(t-Butyl			HL			(45	41)	*****	ጥጥጥጥጥጥጥ
Metal	Mtd	Medium	Temp	Conc Ca	al Flags	Lg K valu	es	Reference	ExptNo
Zn++ ******** C8H14OS 3-(t-Butyl	****	******	***** HL	******	******	********* (45	******		 (62027)3194 ******
Metal	Mtd	Medium	Temp	Conc Ca	al Flags	Lg K valu	es	Reference	ExptNo
 Zn++ *******	_								(62030)3195
C8H14O2 5,5-Dimethy			HL			CAS 7	307-04-2		ጥጥጥጥጥጥጥ
Metal					al Flags	Lg K valu	es		
	gl % v/v	/ dioxa	30°C n, 0.0	75% l 01 M Me4	4NC104				(62041)3196
C8H14O2 Cyclohexyl			HL				292-21-7		u-u-u-u-u-u-u-u-u-u-u-u-u-u-u-u-u-u-u-
Metal	Mtd	Medium	Temp	Conc Ca	al Flags	Lg K valu	es	Reference	ExptNo
Zn++	gl	diox/w	25°C	50% (M	K1=2.46	19	85STb (620	57)3197

K(Zn(phen)+L)=2.51

```
********************************
               Lipoic acid CAS 1077-28-7 (409)
1,2-Dithiolane-3-pentanoic acid (6,8-Thioctic acid); C3H5S2.(CH2)4.COOH
------
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaClO4 25°C 0.10M C K1=2.47
                              1978SPd (62068)3198
For L-lipoic acid: K1=2.41; D-lipoic acid: K1=2.47
     gl diox/w 25°C 50% U M K1=2.57
                              1969SMc (62069)3199
                      K(Zn(bpy)+L)=2.60
Medium: 50% dioxan, 0.1 M NaClO4
**********************************
                          (2526)
C8H14O4S3
           H2L
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
Zn++ gl oth/un 25°C 0.10M U K1=2.25 1971FPa (62117)3200
*******************************
C8H14O5S2
                        CAS 4408-66-6 (8332)
Oxybis(ethylenethio)diethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 20°C 0.10M U K1=1.90 1977CAc (62131)3201
Di(carboxymethoxy)ethyl ether; (HOOC.CH2.O.CH2.CH2)20
_____
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=2.60 1975MTc (62143)3202
C8H15N02
                        CAS 6949-77-5 (3235)
1-Aminocycloheptanecarboxylic acid; C6H10(NH2).COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 20°C 0.10M U K1=4.61 B2=9.2 1963IPa (62156)3203
******************************
                        CAS 33994-68-7 (347)
C8H15N04
N-Butyliminodiethanoic acid; C4H9.N(CH2.COOH)2
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 25°C 0.10M C K1=8.12 B2=14.88 1975IPa (62185)3204
******************************
C8H15N05
                          (3234)
```

```
N-(2-Hydroxyethyl)iminodipropanoic acid; HO.CH2.CH2.N(CH2.CH2.COOH)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 30°C 0.10M U K1=4.6 1954CMa (62199)3205
***********************
C8H15N06
             H2L
                          CAS 92511-22-3 (6074)
N-(1,1-Di(hydroxymethyl)ethyl)iminoethanoic acid; (HO.CH2)2C(CH3).N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     gl NaClO4 25°C 1.0M C
                         K1=7.96 B2=10.28 1981ASb (62211)3206
                        B(ZnHL)=11.68
                        B(ZnH-1L)=-0.30
********************************
                             (6380)
2-(D-Arabinosyl)thiazolidine-4-carboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M C
                         K1=4.19 B2=7.13 1990GNa (62219)3207
                        B(ZnH-1L2)=-0.18
                        B(ZnH-2L2)=-9.28
For L-rhamnosyl: K1=3.23, B2=5.57, K(ZnH-1L2)=-1.9, K(ZnH-2L2)=-9.93
*******************************
                             (6378)
2-(D-Lyxosyl)thiazolidine-4-carboxylic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M C
                         K1=4.19 B2=7.13 1990GNa (62221)3208
                        B(ZnH-1L2)=-0.18
                        B(ZnH-2L2)=-9.28
Data also for D-xylosyl:K1=4.05,B2=6.86,B(ZnH-1L2)=-0.44,B(ZnH-2L2)=-9.31;
D-ribosyl:3.43,6.1,-1.23,-9.67; D-mannosyl:2.69,4.98,-2.14,-9.99(same order)
*************************************
C8H15N3O4
                 Gly-Ala-Ala
                          CAS 6491-25-4 (6783)
Glycyl-alanyl-alanine;
------
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                      K1=10.40
      gl KNO3 25°C 0.10M C
                                  1983IMb (62247)3209
                        K(ZnL+H)=9.17
                        K(ZnHL+H)=4.77
********************************
                           CAS 83874-82-2 (3838)
C8H16N2O3
              HL
6-Acetylamino-2-aminohexanoic acid; CH3.CO.NH.(CH2)4.CH(NH2).COOH
 -----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ gl NaClO4 25°C 0.10M U K1=4.51 1970GPa (62290)3210
Gly-Ile CAS 19461-38-2 (2329)
Glycyl-isoleucine; H2N.CH2.CO.NH.CH(CH(CH3).C2H5).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl oth/un 25°C 0.01M U K1=3.8 1954PEa (62318)3211
*************************
                Gly-Leu CAS 869-19-2 (255)
C8H16N2O3
Glycyl-leucine; H2N.CH2.CO.NH.CH(CH2.CH(CH3)2).COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.20M M M K1=3.858 B2= 6.75 1994VBb (62374)3212
                      B(ZnH-1L)=-4.052
B(Zn(Ala)L)=8.901, B(Zn(Phe)L)=8.605, B(Zn(Tyr)L)=8.712,
B(Zn(Trp)L)=8.92, B(Zn(His)L)=10.837, B(ZnH(His)L)=16.915.
Zn++ gl KCl 20°C 0.20M U K1=3.50 B2=6.55 1982KRc (62375)3213
______
Zn++ gl oth/un 20°C 0.01M U K1=3.6 1954PEa (62376)3214
*******************************
            HL Leu-Gly CAS 686-50-0 (1248)
Leucyl-glycine; H2N.CH(CH2.CH(CH3)2).CO.NH.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 20°C 0.20M U K1=2.77 B2=5.61 1982KRc (62420)3215
_____
Zn++ gl oth/un 25°C 0.01M U K1=2.89 B2=5.80 1959DLb (62421)3216
Zn++ gl oth/un 25°C 0.01M U K1=3.1 1954PEa (62422)3217
*************************
C8H16N2O3S2
                          (8784)
Cysteinyl-cysteine ethyl ester;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M C B2=16.5
                               2002VGa (62447)3218
                      B(ZnHL)=17.6
                      B(Zn2L2)=27.1
For the N-acetyl derivative, B2=17.0, B(Zn3HL4)=54.3, B(Zn2HL4)=46.3.
For the N-acetyl derivative of L-Cys-D-cys ethyl ester, K1=10.2, B2=18.2
************************
C8H16N2O4
            H2L
                           (267)
1,2-Diaminoethane-N,N'-di(2-propanoic acid); ((CH3)(COOH).CH.NH.CH2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

Zn++	gl	KNO3	20°C 0.10M U	K1=9.96	1966MKb	(62460)3219
Zn++ *******				K1=10.1 *******		(62461)3220 *******
C8H16N2O4			H2L		.3288-40-9 (32	
Metal	Mtd	Medium	Temp Conc Cal	l Flags Lg K valu	ies Refer	ence ExptNo
Zn++	gl	KNO3	25°C 0.10M U	M K(ZnL+en)=		(62488)3221
Zn++	gl	KCl	20°C 0.10M U	K1=10.1	1958ISa	(62489)3222
**************************************	****	******	************* H2L	K1=7.6 ************************************	**********	(62490)3223 ******
				diethanoic acid; 		
Metal	Mtd	Medium	Temp Conc Cal	l Flags Lg K valu	ıes Refer	ence ExptNo
	J		25°C 0.10M C	K1=12.61 K(Zn+HL)=4 K(ZnL+OH)=	.62 :2.9	(62519)3224
C8H16N2O4			H2L	************************** CAS 3 .CO.(CH2)6.CO.NH(88937-66-5 (59	
Metal	Mtd	Medium	Temp Conc Cal	l Flags Lg K valu	ies Refer	ence ExptNo
Zn++	gl	NaNO3	25°C 0.10M C	K1=8.05 B(ZnHL)=14		(62536)3225
******				• •		
•	2 oxy-	3,6-dia	************** H4L za-1,8-octanec CH2.NH.CH(COOH	**************************************		*****
2,7-Dicarb HS.CH2.CH(2 0xy- COOH	3,6-dia)NH.CH20	H4L za-1,8-octanec CH2.NH.CH(COOH	**************************************	·*************************************	
2,7-Dicarb HS.CH2.CH(Metal Zn++	2 oxy- COOH Mtd gl	3,6-dia;)NH.CH20 Medium KCl	H4L za-1,8-octaneo CH2.NH.CH(COOH Temp Conc Cal 25°C 0.10M C	**************************************	#*************************************	 ence ExptNo (62545)3226
2,7-Dicarb HS.CH2.CH(Metal Zn++ *********************************	2 OXY- COOH Mtd gl	3,6-dia;)NH.CH20 Medium KCl	H4L za-1,8-octanec CH2.NH.CH(COOH Temp Conc Cal 25°C 0.10M C	**************************************	24************************************	
2,7-Dicarb HS.CH2.CH(Metal Zn++ ************* C8H16N2O4S 3,6-Dithia	2 COOH Mtd gl ****	3,6-dia;)NH.CH20 Medium KCl ******	H4L za-1,8-octanec CH2.NH.CH(COOH Temp Conc Call 25°C 0.10M C ***********************************	**************************************	#*************************************	

```
************************************
C8H16N2O5
            H2L
                         CAS 20811-97-6 (5461)
1,9-Dicarboxy-2,8-diaza-5-oxanonane (HOOC.CH2.NH.CH2.CH2)20
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
           25°C 0.10M C K1=10.15 1982BTb (62566)3228
      gl KNO3
********************
C8H16N2O6
            H2L
                         CAS 50730-95-5 (4548)
Ethylenediiminobis(3-hydroxy-2-propanoic acid);
______
     Mtd Medium Temp Conc Cal Flags Lg K values
______
   EMF oth/un 20°C 0.10M U K1=10.20
-----
      gl KNO3 20°C 0.10M U
                       K1=10.20 1970DKa (62575)3230
By spectrophotometry: K1=10.23 in 0.1 M NaClO4
**********************************
N,N'-Di(2-(5-tetraazolyl)ethyl)-1,2-diaminoethane;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
Zn++ gl NaNO3 20°C 0.10M U K1=11.17 1981ESa (62611)3231
**************************
                Valproic acid CAS 99-66-1 (6022)
2-Propylpentanoic acid, dipropylethanoic acid; (CH3.CH2.CH2)2CH.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
                       K1=1.70
     gl NaCl 37°C 0.15M C
                                1988BCb (62616)3232
                      B(ZnH-1L)=-3.65
*********************************
                         CAS 929-10-2 (5864)
6-Methylheptanoic acid; (CH3)2CH.C(CH2)4.COOH
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     gl NaNO3 25°C 0.10M C I M K1=1.02
                                1988LTc (62620)3233
                       K(Zn(phen)+L)=1.07
Data also for 50% v/v EtOH/H2O, and 50% v/v Dioxan/H2O mixtures
*********************************
                12-Crown-4 CAS 294-93-9 (174)
C8H1604
             L
1,4,7,10-Tetraoxacyclododecane; cyclo(-0.(CH2.CH2.0)3.CH2.CH2-)
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      nmr non-aq 27°C 100% C K1=2.76
                                2000SMg (62644)3234
Medium: acetonitrile. Method: competitive 7Li nmr technique.
********************************
```

```
C8H17N03
                        CAS 41775-76-2 (6751)
10-Aza-1,4,7-trioxacyclododecane;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ EMF alc/w 25°C 95% U K1=3.7 1993BDd (62755)3235
Medium: 95% v/v MeOH/H2O, 0.1 M Et4NClO4
*********************************
           H2L
C8H17N04
                        CAS 6353-68-6 (3238)
N,N-Di-(2-Hydroxypropyl)glycine; (HO.CH2.CH2)2N.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl oth/un 30°C 0.10M U K1=5.20 B2=8.62 1957FCa (62779)3236
*************************
                          (5973)
1,4,7-Triazacyclononane-1-ethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
                     K1=14.24 1993CKa (62789)3237
   gl KNO3 25°C 0.50M M
                     K(Zn(OH)L+H)=10.59
**********************
               Gly-Lys CAS 31461-63-9 (5419)
            HL
Glycyl-lysine; NH2.CH2.CO.NH.CH(CH2.CH2.CH2.CH2.NH2)COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 37°C 0.10M C T
                               1984RRc (62802)3238
                      B(ZnHL)=13.16
                      B(ZnH2L2)=26.12
By e.s.r. at 32 C, B(ZnHL)=13.39, B(ZnH2L2)=26.23
********************************
                        CAS 100585-61-3 (1588)
3,6,9-Triazaundecanedioic acid; (HOOC.CH2.NH.CH2.CH2)2NH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=13.19 1990JKa (62806)3239
Zn++ gl NaCl 25°C 0.15M C
                     B(ZnHL)=16.72
*********************************
4,7-Dimethyl-1-oxa-4,7-diazacyclononane;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=6.58 1990CCa (62818)3240
*************************
                        CAS 294-92-8 (654)
1,7-Dioxo-4,10-diazacyclododecane;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl R4N.X 25°C 0.10M U
                     K1=6.51
                              1985NSb (62834)3241
                    B(ZnH-1L)=-2.1
-----
Zn++ gl R4N.X 25°C 0.10M C K1=6.22 1983LCa (62835)3242
***********************************
C8H18N2O2
                        CAS 122-96-3 (5902)
N,N-Bis(2-hydroxyethyl)piperazine;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaCl 25°C 0.10M C K1=2.67 1999HLb (62855)3243
                     B(ZnHL)=9.93
********************************
C8H18N2O6S2
           H2L
              PIPES
                       CAS 5625-37-6 (2798)
Piperazine-1,4-bis(2-ethanesulfonic acid); C4H8N2-(CH2.CH2.SO3H)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
   gl KNO3 25°C 0.10M C K1=3.42
                              2001AOa (62885)3244
*******************************
                        CAS 3216-87-3 (2882)
N,N'-Bis(2-carbamoylethyl)-1,2-diaminoethane;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=5.05 1983LIa (62956)3245
****************************
C8H18N4O2
                         (6627)
N,N'-Bis(3-aminopropyl)oxamide; (CO.NH.(CH2)3.NH2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++
     gl NaNO3 25°C 0.10M C
                    Μ
                              1992LJb (62964)3246
                      B(ZnCuL)=24.9
                      B(ZnCu2L2)=48.8
                      B(ZnCu3L3) = 72.0
*********************************
               Bis-tris
                        CAS 6976-37-0 (2827)
Bis-(2-hydroxyethyl)imino-tris(hydroxymethyl)methane;
 -----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
           25°C 1.0M C K1=2.38 1980SAb (63047)3247
Zn++ gl KNO3
*******************************
C8H19N06P2
                        CAS 5995-40-4 (1338)
N-Cyclohexyliminobis(methylenephosphonic) acid; C6H11.N(CH2PO3H2)2
______
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Refe	rence	ExptNo
Zn++	gl	KC1	25°C	0.20M	1 C	E	3 (ZnHl 3 (ZnH2 3 (ZnH-	.67 _)=16.29 2L)=20.77 -1L)=-0.54 -2L)=-9.93		(6307	9)3248
*K(ZnL)=-9 ******						OH+ZnL=	−Żn(Oŀ	H)L+Zn)=-0	.18.	*****	******
C8H19N2O4P 1-(N-L-Leu			H2L					(1577)			
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Refe	rence	ExptNo
Zn++ ******	_							. 761 . *******		•	•
C8H19N3 1,4,8-Tria	zacy	clounde	L cane;	cyclo	o(-NI	H.C2H4		CAS 36532- BH6.NH.C3H	•	403)	
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Refe	rence	ExptNo
Zn++	gl	KNO3	25°C	0.10M	1 M			0.41 (OH))=16.0		(6310	9)3250
Zn++	gl	KNO3).4		•	•
*****	****	****	****	*****	****	*****	*****	*****	***		****
**************************************			L					******** CAS 186499			*****
C8H19N3O	ethy	1)-1,4, ⁻	L 7-tria	azacyo	lone	onane;			-20-7 (9068)	
C8H19N3O (2-Hydroxy Metal Zn++	ethy Mtd gl	l)-1,4, Medium NaNO3	L 7-tria Temp 25°C	azacyo Conc 0.10M	Cal	onane; Flags 	 Lg K K1=16 *K(Znl	CAS 186499 values 45	-20-7 (' Refe 2003CPa	9068) rence (6311	 ExptNo 4)3252
C8H19N3O (2-Hydroxy Metal	ethy Mtd gl ****	l)-1,4, Medium NaNO3 *****	L 7-tria Temp 25°C *****	azacyc Conc 0.10M	Cal Cal 1 C	onane; Flags 	Lg K K1=10 *K(Znl *****	CAS 186499 values 45	-20-7 (' Refe 2003CPa	9068) rence (6311	 ExptNo 4)3252
C8H19N3O (2-Hydroxy 	ethy Mtd gl **** 10-t Mtd	1)-1,4, Medium NaNO3 ****** riazacy Medium	L 7-tria Temp 25°C ***** L clodoo 	Conc Conc 0.10M ******	Cal Cal Cal Cal Cal Cal	onane; Flags ******	Lg K K1=10 *K(Znl ****** Lg K	values values values 45 -)=-8.87 ******* (4430) values	-20-7 (' Refe 2003CPa *******	9068) rence (6311 *****	 ExptNo 4)3252 *****
C8H19N3O (2-Hydroxy 	ethy Mtd gl **** 10-t Mtd	1)-1,4, Medium NaNO3 ****** riazacy Medium	Temp 25°C ***** L clodo Temp	Conc Conc 0.10M *******	Cal	onane; Flags ****** Flags	Lg K K1=16 *K(Znl ***** Lg K K1=16 3(ZnH-	values	-20-7 (' Refe 2003CPa ******* Refe	9068) rence (6311 *****	ExptNo 4)3252 ****** ExptNo
C8H19N3O (2-Hydroxy 	ethy Mtd gl **** 10-t Mtd gl	1)-1,4, Medium NaNO3 ******* riazacy Medium KNO3	Temp 25°C ***** L clodo Temp 25°C	Conc 0.10M ****** decane Conc 0.10M	Cal Cal Cal Cal Cal Cal Cal Cal	onane; Flags ****** Flags	Lg K K1=10 *K(Znl ***** Lg K K1=10 3(ZnH- ((ZnL-	values	-20-7 (' Refe 2003CPa ******* Refe 1991ACa	9068) rence (6311 ***** rence (6312	ExptNo 4)3252 ****** ExptNo 6)3253

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ vlt alc/w ?
               90% U B2=4.80
                               1971TCa (63150)3256
Medium: 90% EtOH, 0.3 M NaClO4
**********************************
                         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
                    М
Zn++ cal non-aq 30°C 100% U
                               1971DGb (63163)3257
                      K(2ZnL2=Zn2L4)=0.85
                      K(ZnL2+py)=3.95
                      K(ZnL2py+py)=0.34
Medium : benzene
**********************************
C8H19O2PS2
                         CAS 72284-36-7 (3849)
Phosphorodithioic acid S,S'-bis(2-methylpropyl) ester;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ dis NaCl 25°C 1.0M U B2=4.00 1963HZa (63172)3258
C8H1902PS2
                         CAS 28470-47-5 (3848)
Phosphorodithioic acid S,S'-dibutyl ester;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ dis NaCl 25°C 1.0M U B2=3.81 1963HZa (63174)3259
***********************************
                         CAS 32435-51-5 (4552)
Di-n-butyl phosphinedithioic acid; (C4H9)2PSSH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                       B2=6.7
     vlt alc/w
            ? 90% U
                               1971TCa (63204)3260
Medium: 90% EtOH, 0.15 M NaClO4
*******************************
                         CAS 82502-45-2 (3239)
N,N'-Di-(2-Hydroxypropyl)ethylenediamine; (CH3.CH(OH).CH2.NH.CH2.)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.50M U K1=5.12 B2=9.57 1960HDa (63223)3261
C8H20N2O5
                          (7389)
1-(2-Aminoethylamino)-1-deoxy-D-galactitol; NH2.(CH2)2.NH.CH2.(CH0H)4.CH2OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ gl NaClO4 25°C 0.10M C
                        K1=5.13 B2=9.91 1997GGa (63233)3262
                         B3=12.14
                         B(ZnHL)=11.01
                         B(Zn2H-2L2)=-2.72
                         B(Zn2H-3L2)=-11.91
B(ZnH-2L)=-12.06, B(ZnH-1L2)=0.86, B(ZnH-2L2)=-10.25
******************************
                             (6624)
4,7-Dimethyl-1,10-dithia-4,7-diazadecane; HS.CH2CH2.N(CH3)CH2CH2N(CH3).CH2CH2.SH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                         K1=19.25 1992AHa (63245)3263
     gl KNO3 25°C 0.20M C
Zn++
                         K(Zn+2H2L)=14.14
                         *K(ZnL)=-10.17
*********************
                       CAS 294-90-6 (10)
                 Cyclen
1,4,7,10-Tetraazacyclododecane; cyclo(-(NH.CH2.CH2.)4-)
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaClO4 25°C 0.10M C M K1=15.3
Zn++
                                  1995KKc (63269)3264
                         *K(ZnL) = -7.86
                         K(ZnL+A)=3.3
H2A is 4-nitrophenylphosphoric acid.
______
    gl NaClO4 25°C 0.10M C
                         K1=23.5 1995ZEa (63270)3265
Zn++
                         *K(ZnL(H20))=-7.9
-----
     gl NaClO4 25°C 0.10M M T M
Zn++
                                   1994KTa (63271)3266
                         K(ZnAL+H=ZnBL)=7.86
T:15-35C. K=8.06(15C), 7.64(35C). A:0H. B:H20
______
Zn++
   gl NaClO4 25°C 0.10M U T
                                   1990KSa (63272)3267
                         *K(ZnL(H20))=-8.02
At 0 C: *K(ZnL(H20)) = -8.54.
Zn++ gl NaNO3 25°C 0.10M U K1=16.2
                                1988HSb (63273)3268
______
Zn++ cal oth/un 25°C 1.0M U H
                                   1978AFa (63274)3269
Medium: 0.1 M NaOH. DH1=-60.6 kJ mol-1
______
      vlt oth/un 25°C 0.20M U H K1=16.2
Zn++
                                 1977KKa (63275)3270
DH(K1) = -33.0 \text{ kJ mol} -1
**********************************
                           CAS 6531-38-0 (6515)
C8H20N4
1,4-Bis(2-aminoethyl)-1,4-diazacyclohexane; NH2.CH2CH2.N(CH2CH2)2N.CH2CH2.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
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```
gl NaNO3 25°C 0.10M U K1=5.81 1990HNa (63304)3271
********************
                          CAS 127723-03-9 (9174)
1-(2-Aminoethyl)-1,4,7-triazacyclononane;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       K1=13.81
     gl R4N.X 25°C 0.10M C
Zn++
                                 2004TBa (63308)3272
                       K(ZnHL+H)=5.44
                       K(ZnH2L+H)=4.9
                       K(ZnL+OH)=3.57
                       K(ZnL+2OH)=3.30
Medium: 0.1 M N(CH3)4Cl
K(ZnL+H) is not reported. K(ZnL+2OH) is more probably K(ZnLOH+OH)
********************************
             L
                           (2496)
1,1,1-Tris(N-methylaminomethyl)ethane; CH3.C(CH2.NH.CH3)3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
------
                        K1=5.888
Zn++ gl KNO3 25°C 0.50M C
                                 1983BMa (63316)3273
                       K(ZnL+OH)=4.786
                       K(Zn(OH)L+OH)+4.24
*********************************
                          CAS 13516-59-1 (3850)
C8H22N2O6P2
2,2'-(Ethylenedi-imino)bis(propylphosphonic acid);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KCl 25°C 0.10M U
                       K1=13.38 1965DKb (63330)3274
                       K(Zn+HL)=4.81
CAS 35513-90-7 (1545)
1,4,9,12-Tetraazadodecane; NH2.(CH2)2.NH.(CH2)4.NH.(CH2)2.NH2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 25°C 1.00M C H K1=12.60
7n++
                               1982ABc (63379)3275
By calorimetry: DH1=-48.5 kJ mol-1, DS1=77.8
CAS 41240-14-6 (4494)
C8H22N4
1,5,8,12-Tetraazadodecane; NH2.(CH2)3.NH.(CH2)2.NH.(CH2)3.NH2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KNO3 25°C 0.50M U
Zn++
                        K1=11.26
                                 1973PFa (63398)3276
                       K(Zn+HL)=7.18
                       K(ZnL+OH)=4.05
**********************************
C8H22N40
                          CAS 80042-24-6 (5464)
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1,4,10,13-Tetraaza-7-oxatridecane;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KNO3 25°C 0.10M C K1=10.97 1982BTb (63408)3277
K(ZnL+H)=5.57
**********************************
C8H22N4S
                       CAS 80042-28-0 (5465)
1,4,10,13-Tetraaza-7-thiatridecane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KNO3 25°C 0.10M C K1=11.24 1982BTb (63413)3278
*********************************
               Tetren
C8H23N5
           L
                       CAS 112-57-2 (715)
1,4,7,10,13-Pentaazatridecane (Tetraethylenepentamine);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ cal KNO3 25°C 0.10M C
                              1982TMd (63445)3279
                    DH1=-86.1 kJ/mol
-----
     gl alc/w 25°C 65% U I K1=15.61
                           1972RBa (63446)3280
Medium: 40-99% EtOH, 0.1 M NaClO4. K1(40%)=15.72, K1(99%)=19.00
______
Zn++ cal KNO3 25°C 0.10M U H
                              1965WHa (63447)3281
DH(K1)=-58.5 kJ mol-1, DS=100.3 J K-1 mol-1
______
Zn++ cal KCl 25°C 0.10M U H
                             1964PVa (63448)3282
DH(K1)=-57.9 kJ mol-1, DS=94.0 J K-1 mol-1
______
Zn++ gl KCl 25°C 0.10M U
                     K1=15.10
                             1963PVa (63449)3283
                    K(Zn+H2L)=5.7
-----
Zn++ gl KNO3 25°C 0.10M U K1=15.4 1958RHa (63450)3284
******************************
                       CAS 124005-68-1 (7590)
N-(2,3,5,6-Tetrafluorophenyl)imidazole;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.50M M K1=1.70 1998KSa (63500)3285
CAS 521-74-4 (3279)
C9H5NOBr2
5,7-Dibromo-8-hydroxyquinoline;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 35°C 75% U K1=7.81 B2=15.13 1970GMh (63512)3286
Medium: 75% v/v dioxan, 0.2 M NaClO4
```

```
Zn++ dis NaClO4 18°C 0.20M U K1=7.76 B2=15.32 1965NKa (63513)3287
C9H5NOC12
                          CAS 773-76-2 (3278)
5,7-Dichloro-8-hydroxyquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 35°C 75% U K1=7.70 B2=14.86 1970GMh (63537)3288
Medium: 75% v/v dioxan, 0.2 M NaClO4
*************************
C9H5NOI2
                         CAS 83-73-8 (3280)
5,7-Di-iodo-8-hydroxyquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl diox/w 35°C 75% U K1=7.80 B2=15.05 1971MAb (63553)3289
Medium: 75% v/v dioxan, 0.1 M NaClO4
************************
                         CAS 16846-41-1 (4666)
C9H5NO2Br2
5,7-Dibromo-8-hydroxyquinoline N-oxide;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 35°C 75% U K1=8.03 B2=15.56 1970GMh (63579)3290 Medium: 75% v/v dioxan, 0.2 M NaClO4
***********************************
C9H5N02C12
                         CAS 21168-33-2 (4665)
5,7-Dichloro-8-hydroxyquinoline N-oxide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 35°C 75% U K1=7.80 B2=15.27 1970GMh (63589)3291 Medium: 75% dioxan, 0.1 M NaClO4
**********************************
C9H5NO4
                          CAS 22308-86-7 (4607)
3-Nitroso-4-hydroxycoumarin (oximidobenzotetronic acid);
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
      gl diox/w 21°C 50% U
                      K1=3.93 B2=7.04 1970MGd (63601)3292
Medium: 50% dioxan, 0.3 M NaClO4
**********************************
                         CAS 1084-32-8 (4608)
C9H5N3O5
5,7-Dinitro-8-hydroxyquinoline;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 35°C 75% U K1=5.68 B2=10.21 1970GMh (63624)3293
Medium: 75% dioxan, 0.2 M NaClO4
```

```
**********************************
                        CAS 21168-36-3 (4609)
C9H5N3O6
5,7-Dinitro-8-hydroxyquinoline-N-oxide;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 35°C 75% U K1=3.87 B2=6.69 1970GMh (63634)3294 Medium: 75% v/v dioxan, 0.2 M NaClO4
*************************
                        CAS 1198-14-7 (3281)
C9H6N0Br
5-Bromo-8-hydroxyquinoline;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ dis oth/un 25°C 0.10M U B2=14.62 1968CFc (63642)3295
*******************************
C9H6NOC1
                        CAS 130-16-5 (1268)
5-Chloro-8-hydroxyquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 60% U K1=9.0 B2=17.85 1973SCd (63654)3296
Medium: 60% dioxan, 0.1 M NaClO4
______
Zn++ dis oth/un 25°C 0.10M U B2=15.58 1968CFc (63655)3297
*********************************
                         CAS 15207-63-1 (3282)
C9H6NOI
5-Iodo-8-hydroxyquinoline;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ dis oth/un 25°C 0.10M U B2=14.86 1968CFc (63681)3298
**********************************
               Ferron CAS 547-91-1 (275)
           H2L
7-Iodo-8-hydroxyquinoline-5-sulfonic acid; (HO)(HO3S)C9H4NI
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 75% C
                      K1=11.55 B2=17.68 1989FHa (63752)3299
Medium: 75% v/v dioxane/H2O, 0.10 M KNO3.
Also data for 0-50% v/v dioxane/H20, 0.10 M KNO3.
______
   gl KNO3 25°C 0.10M C K1=9.79 B2=17.69 1985ZHa (63753)3300
______
Zn++ gl NaClO4 35°C 0.10M U K1=7.05 B2=13.48 1983ABb (63754)3301
Zn++ gl oth/un 20°C 0.03M U K1=6.96 1977KCb (63755)3302
K1=7.58 by solubility
______
Zn++ gl KCl 25°C 0.10M M I M K1=6.37 B2=12.81 1977MLb (63756)3303
```

```
Zn++ EMF oth/un 25°C 0.10M U K1=6.70 B2=13.02 1968KBa (63757)3304
By Ion Exchange: K1=6.78, B2=13.15
______
Zn++ gl KNO3 28°C 0.10M U K1=7.25 B2=13.40 1967LMb (63758)3305
-----
Zn++ gl NaCl 25°C 0.50M U K1=6.83 B2=12.68 1967TMd (63759)3306
By spectrophotometry: K1=6.87, K2=6.22
___________
Zn++ gl KCl 25°C 0.10M U K1=7.1 B2=13.20 1963STa (63760)3307
************************
                       CAS 36107-02-5 (4611)
8-Amino-5,7-dibromoquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ sp diox/w 25°C 50% U K1=1.8 1972YTa (63844)3308
************************
                       CAS 5437-99-0 (3865)
5-Nitro-8-hydroxyquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 60% U K1=7.73 B2=14.42 1973SCd (63855)3309
Medium: 60% dioxan, 0.1 M NaClO4
______
Zn++ dis oth/un 25°C 0.10M U B2=12.14 1968CFc (63856)3310
*********************************
                        CAS 5263-74-1 (2738)
7-Nitroso-8-hydroxyquinoline-5-sulfonic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M C K1=4.990 B2=8.835 1978SOb (63875)3311
                     B3=11.523
**********************************
C9H6N2O6S
                        CAS 15851-63-3 (1433)
7-Nitro-8-hydroxyquinoline-5-sulfonic acid;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 35°C 0.10M U K1=5.98 B2=11.51 1983ABb (63899)3312
-----
Zn++ gl NaClO4 25°C .005M U K1=5.90 B2=10.80 1963FFa (63900)3313
                     K3 < 3.8
Zn++ gl oth/un 25°C 0.0 U K1=5.96 B2=12.20 1955NUa (63901)3314
***************************
                        CAS 27004-41-7 (216)
2-(2'-Thiazolylazo)-4-chlorophenol; C3H2NS.N:N.C6H3(C1).OH
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     sp diox/w 20°C 10% U
                                  1970KIa (63919)3315
                        K(Zn+HL=ZnL+H)=4.5
                        K(ZnL+HL=ZnL2+H)=4.4
********************************
                 Ninhydrin
             HL
                          CAS 485-47-2 (2536)
1,2,3-Indantrione monohydrate, Trioxohydrindene monohydrate;
_____
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 30°C 5% U M
                                  1995RRb (63948)3316
                        K(ZnA+L)=7.11
                        B(ZnAL)=14.97
Medium: 5% v/v EtOH/H2O, 0.10 M KNO3. H2A is thioglycolic acid.
**********************
C9H7N
                           CAS 119-65-3 (487)
Isoquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ sp non-aq 25°C 100% U
                                  1994IUa (64018)3317
                       K(ZnP+L)=5.04
Medium: CHCl3. ZnP is a zinc porphyrin host.
______
     sp non-aq 25°C 100% U H
                                 1990IKa (64019)3318
                        K(ZnP+L)=4.49
In toluene. P=pivalamido picket fence porphyrin. DH=-43.9 kJ mol-1; DS=-
61.9 J K-1 mol-1. Also data for other picket substituents.
-----
      ISE NaClO4 30°C 0.10M U
                        K1=1.08 B2=1.65 1966DKa (64020)3319
                        B3=2.01
*******************************
             HL Oxine
                          CAS 148-24-3 (504)
8-Hydroxyquinoline (8-quinolinol);
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 30°C 50% U K1=9.53 1992ELa (64173)3320
Medium: 50% dioxane/H2O (I=0.1 M, electrolyte not stated).
______
Zn++ gl KNO3 25°C 0.10M U M K1=11.34 B2=22.44 1990NAa (64174)3321
                     K(ZnL+furoic acid)=3.89
______
      gl KCl 25°C 0.1M U T K1=9.20 B2=17.08 1986MLb (64175)3322
Zn++
Also for 60 C K1=8.59; B2=16.22
for 80 C K1=8.20; B2=15.40
______
Zn++ gl diox/w 25°C U I K1=9.75 B2=18.95 1986VZc (64176)3323
```

```
For 0.313 mol parts of dioxane in H2O; Also in 0.356 m.p.DMSO/H2O K1=9.37;
in 0.334 m.p. DMFA/H20 K1=6.48;B2=13.19
______
Zn++ gl diox/w 30°C 75% U K1=10.8 B2=21.0 1984NYa (64177)3324
Zn++ gl KNO3 25°C 0.2M U I K1=8.73 1984VZa (64178)3325
in 0.5 M KNO3 K1=8.50;
in 1.0 M KNO3 K1=8.31;
______
Zn++ sp diox/w 25°C 50% U I K1=9.45 B2=18.15 1978QCa (64179)3326
In water-saturated propylene carbonate K1=10.8, K2=9.7
______
Zn++ gl diox/w 25°C 60% U K1=9.96 B2=18.98 1973SCd (64180)3327
Medium: 60% dioxan, 0.1 M NaClO4
______
Zn++ dis non-aq 25°C 100% U M
                               1968CFc (64181)3328
                      K(ZnL+py)=3.05
                      K(ZnL+A)=2.10
                      K(ZnL+B)=3.40
                      K(ZnL+C)=1.50
Medium: chloroform.
            A=2-methylpyridine, B=4-methylpyridine,
C=2,4,6-trimethylpyridine
______
Zn++ cal diox/w 25°C 50% U H
                               1968GFa (64182)3329
Medium: 50% dioxan, 0.1 M NaClO4. DH(K1)=-24.7 kJ mol-1, DS=96 J K-1 mol-1;
DH(B2) = -40.1, DS = 213
______
  gl diox/w 25°C 50% U K1=9.45 B2=18.15 1967SFa (64183)3330
______
                       B2=17.1 1965CFa (64184)3331
Zn++ dis oth/un 25°C 0.10M U
-----
                      K1=8.52 B2=15.84 1964FFa (64185)3332
    sol oth/un 25°C 0.10M U
                     Kso = -23.34
-----
Zn++ gl diox/w 20°C 50% U K1=9.34 B2=17.56 1954IRa (64186)3333
Medium: 50% dioxan, 0.3 M NaClO4
Zn++ gl diox/w 25°C 50% U K1=9.96 B2=18.86 1952JFa (64187)3334
______
Zn++ sp oth/un 20°C 0.0 U K1=8.56 1952NPa (64188)3335
-----
Zn++ gl diox/w 25°C 70% U K1=10.91 B2=20.81 1949MMa (64189)3336
*****************************
                     CAS 10285-97-9 (3257)
2-Hydroxyquinoline 1-oxide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl oth/un 20°C 0.10M U K1=5.4 1956ARb (64385)3337
```

C9H7NO2 8-Hydroxyqu	uinoline-N-	HL oxide;	CAS 1127-45-3	(4614)
Metal	Mtd Medium	n Temp Conc Cal Flags	Lg K values F	Reference ExptNo
Medium: 50%	dioxan, 0	v 25°C 50% U v.3 M NaClO4 v.************************************		1970GMb (64396)3338
C9H7N03S2		H2L 5-sulfonic acid;	CAS 58447-10-2	
Metal	Mtd Medium	n Temp Conc Cal Flags	Lg K values F	Reference ExptNo
Zn++ *******	sp oth/ur ******	· ı ? ? U ·*********	K1=8.9 B2=17.30 *********	1968ABa (64421)3339
C9H7NO4S 8-Hydroxyqu	uinoline-5-	H2L Sulfoxine sulfonic acid;	CAS 84-88-8 (4	,
Metal	Mtd Medium	n Temp Conc Cal Flags	Lg K values F	
Zn++	sp NaCl	25°C 0.10M C		1993BCe (64496)3340
	gl NaClO4			1983ABb (64497)3341
Zn++	gl KCl	25°C 0.10M M I M	K1=7.73 B2=14.50	1977MLb (64498)3342
	_	0.1 M NaClO4	K1=9.0 B2=17.85	1973SCd (64499)3343
Zn++	gl NaCl	20°C 0.50M U		1969SVc (64500)3344
By calorime	etry:DH(K1)	1 25°C 0.10M U IH 0=-21.3 kJ mol-1, DS= 23,B2=17.56; DH(K1)=-	79 J K-1 mol-1; DH(E	
Zn++	gl NaCl	25°C 0.50M U		1967TMd (64502)3346
Zn++	_	25°C 0.10M U	K1=7.54 B2=14.32	1959RGa (64503)3347
		1 25°C 0.0 U		
Zn++	gl oth/ur	1 20°C 0.01M U	K1=8.4 B2=15.1	1953ALa (64505)3349
**************************************	*********	n 25°C 0.01M U ********* L ene; C4H3S.C5H4N		******
		Temp Conc Cal Flags	Lg K values F	Reference ExptNo

```
Zn++ gl NaClO4 25°C 0.10M U K1=1.10 1964KSb (64604)3351
*********************
C9H7NS
                          CAS 76076-35-2 (5695)
2-Mercaptoquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ EMF non-aq 25°C 100% U K1=7.5 B2=13.00 1986UBa (64610)3352 Medium: dimethylformamide, LiClO4
***********************
            HL Quinolinethiol CAS 491-33-8 (1028)
C9H7NS
8-Mercaptoquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ dis NaClO4 25°C 0.10M C
                                1987YSb (64634)3353
Method: extraction from 0.10 M NaClO4 solution into CHCl3/HL.
K(Zn+2HL(org)=ZnL2(org)+2H)=3.83. For extraction into benzene, K=3.21.
_____
Zn++ gl non-aq 25°C 100% U K1=8.1 B2=12.4 1984UBa (64635)3354
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a
-----
Zn++ EMF non-aq 25°C 100% U K1=8.1 B2=12.40 1983UBa (64636)3355
Medium: DMF, 0.1 M LiClO4
-----
Zn++ cal diox/w 25°C 50% U H
                                1968GFa (64637)3356
Medium: 50% dioxan, 0.1 M NaClO4. DH(K1)=-30.1 kJ mol-1, DS=109 J K-1 mol-1
______
Zn++ gl diox/w 25°C 50% U K1=11.0 1966KFb (64638)3357
Medium: 50% dioxan, 0.1 M NaClO4
______
Zn++ sp diox/w 27°C 50% U K1=11.05 1963CFa (64639)3358
********************************
                         CAS 16396-64-8 (3867)
C9H7NSe
8-Hydroselenylquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ sp diox/w 25°C 50% U K1=10.2 1965SFa (64655)3359
Medium: 50% dioxan, 0.1 M NaClO4
**********************************
C9H7N3O2
                           (1328)
4-Oximino-3-phenyl-2-pyrazolin-5-one;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl alc/w 20°C 50% U T K1=3.13 B2=5.54 1981SSc (64661)3360
At 30 C: K1=3.47, B2=5.42
***********************************
```

		Modium	esorcinol; 		 s Lg K values	Rofo	canca EvntNo
Zn++	sp	NaNO3	25°C 0.10N	1 U	K1=7.80 K(Zn+HL)=4.28	19860Ha	(64684)3361
Zn++ Medium: 5	Ū		25°C 50%	U	K(Zn+2HL)=17.2	1967NPb	(64685)3362
Zn++	sp	NaClO4	20°C 0.10N	1 U	K(Zn+HL)=7.19	1966HSb	(64686)3363
	·		20°C 50%		K(Zn+HL)=11.08 K(ZnHL+HL)=10.1 K(ZnL+H)=7.12 K(ZnOHL+H)=8.74		(64687)3364
					H)2L+H)=8.98 ********	*****	*************
C9H8NO4P 8-Quinoly			H2L		CAS 7220-3		
Metal	Mtd	Medium	Temp Conc	Cal Flag	s Lg K values	Refe	rence ExptNo
			25°C 0.15N		K1=4.87 B(ZnH-1L)=-5.46 B(ZnHL)=9.69		
********* C9H8N2 8-Aminoqu			******** L	*****	**************************************		
Metal	Mtd	Medium	Temp Conc	Cal Flags	s Lg K values	Refei	тепсе Ехртио
 Zn++ Medium: 5	sp 0% v/	diox/w v dioxa	25°C 50% n, 0.5 M Na	U aC104	K1=3.7	1969Y0a	(64773)3366
Zn++ Medium: 5	sp 0% v/ 	diox/w v dioxa	25°C 50% n, 0.5 M Na	U aC104 	K1=3.7 K1=2.3	1969Y0a 1964PCa	(64773)3366 (64774)3367
 Zn++ Medium: 5 Zn++ Zn++	 sp 0% v/ gl 	diox/w v dioxan oth/un 	25°C 50% n, 0.5 M Na 25°C 0.10N 	U aClO4 M U 	K1=3.7	1969Y0a 1964PCa 1957WSa	(64773)3366 (64774)3367 (64775)3368
Zn++ Medium: 5 Zn++ Zn++ **********************************	sp 0% v/ gl gl *****	diox/w v dioxar oth/un KCl ******	25°C 50% n, 0.5 M Na 25°C 0.10N 20°C 0.10N ********	U aClO4 M U M U *******	K1=3.7 K1=2.3 K1=2.42	1969Y0a 1964PCa 1957WSa *****	(64773)3366 (64774)3367 (64775)3368 *******
Zn++ Medium: 5 Zn++ Zn++ ******** C9H8N2O 8-Hydroxy	sp 0% v/ gl *****	diox/w v dioxan oth/un KCl *******	25°C 50% n, 0.5 M Na 25°C 0.10N 20°C 0.10N ******** HL noline;	U aClO4 M U M U *******	K1=3.7 K1=2.3 K1=2.42 **********************************	1969Y0a 1964PCa 1957WSa *******	(64773)3366 (64774)3367 (64775)3368 ***********************************

```
*******************************
C9H8N2O2S
                           (8279)
Dehydroxydemethyldesferrithiocin;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=3.8 B2= 7.00 1990ARa (64799)3370
*****************************
C9H8N2O4S2
                         CAS 219931-32-5 (8394)
3-Phenylsulfonamidorhodanine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ sp alc/w 30°C 20% C T H K1=7.51 B2=12.51 1998EGa (64827)3371
Medium: 20% v/v EtOH/H2O, 0.10 M KCl. Also data for 35 and 45 C.
DH and DS values reported
CAS 847943-99-1 (9223)
                ABS
C9H8N4O3S
4-Acrylamidobenzenesulfonylazide;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 50% C T H K1=8.61 B2=15.42 2004JEa (64857)3372
Medium: 50% v/v EtOH/H2O, 0.10 M KCl. DH(K1)=-28.7 kJ mol-1, DS(K1)=
-261 J K-1 mol-1; DH(K2)=-28.7, DS(K2)=-227. Also data for 35 and 45 C
*************************
C9H8N4O4S2
Indol-2,3-dione-3-thiosemicarbazone-5-sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
     gl KNO3 37°C 0.15M M M K1=5.68 B2=11.31 1982STa (64860)3373
B(ZnL(Gly))=10.2; B(ZnL(His))=11.51
*****************************
       H2L
C9H802S
                         CAS 5740-34-1 (1065)
3-Phenyl-2-mercaptopropenoic acid; C6H5.CH:C(SH).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·-----
    gl diox/w 25°C 50% U K1=11.28 B2=20.85 1977WVa (64877)3374
*******************************
            H3L Caffeic acid CAS 331-39-5 (6037)
3-(3,4-Dihydroxyphenyl)propenoic acid; (HO)2C6H3.CH:CH.COOH
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=2.99 1987LVa (64914)3375
Zn++ gl NaCl 25°C 0.10M C
                       B(ZnH-1L)=-3.03
                       B(ZnH-1L2)=-0.39
                       B(ZnH-2L2)=-8.21
```

B(ZnH-2L3)=-5.51

С9Н8О4	********** 4-methyltro	H2L		**************************************	**************************************
Metal	Mtd Medium	Temp Conc	Cal Flags	_	Reference ExptNo
By glass e	lectrode: K	1=6.68,K2=	M U 5.44,K3=3.	K1=6.52 24	1967GDb (64928)3376
C9H8O4 4-Methylph	thalic acid	H2L ; CH3.C6H3	(COOH)2	CAS 4316-23	-8 (4593)
Metal	Mtd Medium	Temp Conc	Cal Flags	Lg K values	Reference ExptNo
					1971NPc (64967)3377 *******
C9H8O4S (2-Carboxy	phenylthio)	H2L ethanoic a	cid; HOOC.	CAS 135-13- C6H4.S.CH2.COOH	7 (4620)
Metal	Mtd Medium	Temp Conc	Cal Flags	Lg K values	Reference ExptNo
					1962SYa (65000)3378 *******
С9Н8О5		H2L		CAS 635-53-0 0.C6H4.COOH	
Metal	Mtd Medium	Temp Conc	Cal Flags	Lg K values	Reference ExptNo
Zn++	gl oth/un	25°C 0.10	 М U	K1=2.6	1962SYa (65016)3379
	-				 1958YSa (65017)3380 *******
C9H9N03		HL Hi	ppuric aci	d CAS 495-69- ne; C6H5.CO.NH.C	2 (1184)
Metal	Mtd Medium	Temp Conc	Cal Flags	Lg K values	Reference ExptNo
				B3=3.26	95 1967KAa (65052)3381
C9H9N03	******* idene)glyci	H2L		CAS 6343-78	**************************************
Metal	Mtd Medium	Temp Conc	Cal Flags	Lg K values	Reference ExptNo
Zn++ ********	gl KCl ******	25°C 0.50	 M U *****	K1=9.37 B2=15	.77 1971LLa (65060)3382
C9H9N03I2		H2L Io	dogorgoic	acd CAS 300-39- panoic acid, Dii	0 (2726)

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl oth/un 20°C .002M U B2=8.0
                                 1953PEa (65069)3383
Medium: 0.002 ZnSO4
**********************************
                          CAS 55805-95-3 (6322)
2-Hydroxy-5-nitropropiophenone; (HO)(NO2)C6H3.CO.CH2.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
------
     sp diox/w 40°C 50% U K1=3.28 1975PSb (65075)3384
***********************************
            H2L Salicylglycine CAS 487-54-7 (3869)
N-(2-Hydroxybenzoyl)glycine, 2-hydroxyhippuric acid; HO.C6H4.CO.NH.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C K1=3.1 1994BDa (65091)3385
                       B(ZnH-1L)=-5.2
______
Zn++ gl alc/w 25°C 50% U K1=4.12 B2= 7.98 1989MSi (65092)3386
                        B(ZnH-1L)=-5.33
                        K(Zn+OH+L)=8.67
Medium: 50% v/v EtOH/H2O, 0.2 M NaNO3.
*************************
                           CAS 612-42-0 (3263)
N-(Carboxymethyl)anthranilic acid; HOOC.C6H4.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=3.05 1973UWb (65103)3387
Zn++ gl diox/w 35°C 50% U K1=5.6 B2=8.4 1958YSa (65104)3388
C9H9N302S2
                 Sulfathiazole CAS 72-14-0 (8357)
             HL
4-Amino-N-2-thiazolyl-benzenesulfonamide;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl alc/w 25°C 50% C
                       K1=3.65
                                 1999GAa (65126)3389
Medium: 50% EtOH/H2O, 0.10 M NaNO3.
Zn++ gl alc/w 30°C 50% C M
                                 1999MBc (65127)3390
                        B(Zn(gly)L)=10.26
                        B(ZnAL)=9.89
                        B(Zn(met)L)=9.01
                        B(ZnH-1(gly)L)=2.26
In 50% v/v EtOH/H20, 0.10 M NaNO3. B(ZnH-2(gly)L)=-6.74; B(ZnH-1AL)=2.65,
B(ZnH-2AL)=-5.49; B(ZnH-1(met)L)=1.42, B(ZnH-2(met)L)=-6.57. A: Beta-ala
```

```
gl diox/w 30°C 50% U
                               B2= 6.53 1993MBc (65128)3391
Zn++
                         K1=3.60
                         *K(ZnL) = -8.00
                         *K(ZnL2)=-5.99
                         *K(Zn(OH)L2)=-9.00
Medium: 50% v/v dioxane/H2O, 0.10 M NaNO3.
**********************************
                           CAS 582-60-5 (8433)
5,6-Dimethylbenzimidazole;
_____
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 35°C 0.10M C M K1=2.60
                                 1997PSb (65193)3392
                         K(ZnL+A)=7.69
H2A is thiamine orthophosphoric acid.
********************************
C9H10N2O
                             (3264)
2,2'-Hydroxyphenylimidazoline;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 20°C 0.01M U K1=7.9
                                  1956ARb (65200)3393
*******************************
                            CAS 52829-64-8 (4627)
2-Acetoacetamidopyridine; C5H4N.NH.CO.CH2.CO.CH3
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=4.30 1967HAb (65224)3394
****************************
C9H10N2O2
                             (3265)
Salicylaldehyde acetylhydrazone; HO.C6H4.CH:N.NH.CO.CH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
     sp alc/w 19°C 50% U I
                                   1963HOc (65234)3395
                         K(?)=4.2
                         K(?)=6.32
Medium: EtOH, 0.025 M acetate buffer. 28% EtOH: K(?)=4.0
-----
      gl alc/w 20°C 50% U K1=7.3 B2=13.2 1959HOa (65235)3396
*******************************
              HL
                           CAS 61-78-9 (8235)
C9H10N2O3
4-Aminohippuric acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      vlt KNO3 35°C 1.0M C T H K1=4.398 B2= 8.86 1980SSg (65249)3397
Method: polarography. At 20 C, K1=4.513, B2=8.891.
DH(K1)=-13.1 \text{ kJ mol}-1, DS(B2)=-41.6.
```

```
******************************
C9H10N2O3
                       CAS 62134-49-0 (9110)
N-(2-Pyridyl)-3-carboxypropanamide;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 0.10M U K1=3.33 B2= 5.36 2002GSa (65258)3398
*****************************
C9H10N2O5
                         (4645)
4,5,6,7-Tetrahydroindazol-3-one-5,5-dicarboxylic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ gl diox/w 25°C 50% U
                              1969ZSa (65271)3399
                     K(Zn+H2L)=2.63
                     K(Zn+HL)=5.76
********************************
C9H10N2O5
                        CAS 130291-86-0 (8051)
N-(2-Hydroxy-4-nitrobenzyl)glycine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ gl NaClO4 25°C 0.10M U K1=7.51 B2=12.88 1983CHb (65284)3400
******************************
                       CAS 14610-11-8 (8494)
C9H10N2S
2-Mercaptoethylbenzimidazole;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 30°C 0.10M M
                   М
                             1995RMa (65291)3401
                     K(Zn(bpy)+L)=8.24
                     K(Zn(phen)+L)=8.14
                     K(ZnA+L)=8.02
A is 1,2-diaminobenzene.
_____
     gl NaCl04 30°C 0.10M M K1=9.16 1995RMa (65292)3402
C9H10N4O2
                         (6976)
3,3-(Bis(imidazol-2-yl))propanoic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KCl 25°C 0.20M C K1=5.63 B2=10.10 1994VSa (65299)3403
Also data for the propanamide derivatives with the peptide Ile-His-Gly-OEt
***********************************
                        CAS 18583-60-3 (7936)
C9H10N6B
Hydrotris(pyrazolyl)borate;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++
      dis non-aq 25°C 100% C
                                   2001KSb (65307)3404
                         K(Zn+2HL=ZnL2(org)+2H)=6.2
Method: solvent extraction into chloroform.
K: Zn+2HL(org)=ZnL2(org)+2H.
*********************
              HL Benzylacetic
                           CAS 501-52-0 (1362)
3-Phenylpropanoic acid; C6H5.CH2.CH2.COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl KNO3 25°C 0.10M C I M K1=1.14
                                   1985BSd (65361)3405
                         K(Zn(phen)+L)=1.07
In 50% dioxan: K1=2.36, K(Zn(phen)+L)=2.39. In 50% EtOH: K1=1.88, K=2.06
Zn++
      gl KNO3
             25°C 0.10M C I M K1=1.14
                                   1985SMf (65362)3406
                         K(Zn(phen)+L)=1.07
Also data in 30, 50, 60, 70, and 90% (v/v) Ethanol/water and 10, 30, 50, 60,
70, 80, and 90% (v/v) dioxane/water.
**********************************
C9H1002S
                            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
______
     gl diox/w 25°C 50% U M K1=2.19
                                   1972SGa (65398)3407
                         K(Zn(bpy)+L)=2.16
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
                            CAS 21101-79-1 (3267)
2-Ethylthiobenzoic acid; CH3.CH2.S.C6H4.COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=2.87 B2=6.39 1956IFa (65404)3408
CAS 1878-49-5 (5593)
2-(4-Methoxyphenyl)ethanoic acid; CH30.C6H4.CH2.COOH
-----
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% C
                       M K1=2.28
                                   1985BSd (65435)3409
                         K(Zn(phen)+L)=2.35
Medium: 50% v/v dioxan/H20, 0.1 M NaClO4
********************************
C9H10O3
                           CAS 940-31-8 (8124)
2-Phenoxypropanoic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl none 25°C 0.15M C T H K1=0.6
                                  1990AMb (65455)3410
```

```
Data for 10-45 C
**********************************
                           CAS 118-61-6 (3858)
Salicylic acid ethyl ester; HO.C6H4.CO.OC2H5
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      gl diox/w 30°C 75% U
                        K1=8.48
                                1964JVa (65491)3411
Medium: 75% dioxan, 0.1 M NaClO4
**********************************
                           CAS 18619-21-2 (4637)
(2-Methoxyphenylthio)ethanoic acid; CH30.C6H4.S.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      ISE KNO3
            25°C 0.10M C
                        K1=1.00
                                1972FGb (65496)3412
By competition with Ag+ using Ag ISE
*************************
                           CAS 3996-32-5 (4638)
(3-Methoxyphenylthio)ethanoic acid; CH30.C6H4.S.CH2.COOH
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      ISE KNO3 25°C 0.10M C
                        K1=0.68 1972FGb (65504)3413
By competition with Ag+ using Ag ISE
CAS 3996-42-7 (4643)
Carboxymethyl benzyl sulfoxide; C6H5.CH2.SO.CH2.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
___________
    gl diox/w 25°C 50% U M K1=1.84
                                 1972SGa (65515)3414
                       K(Zn(bpy)+L)=1.80
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
                            (4640)
C9H1003Se
(2-Methoxyphenylseleno)ethanoic acid; CH30.C6H4.Se.CH2.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
K1=0.71
                                 1972FGb (65518)3415
      ISE KNO3
             25°C 0.10M C
By competition with Ag+ using Ag ISE
******************************
             H3L
                           CAS 39223-40-0 (1825)
3,4-Dihydroxyphenylpropanoic acid; (HO)2.C6H3.CH2.CH2.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaClO4 30°C 0.10M U K1=8.64 B2=14.79 1966APb (65561)3416
```

```
C9H1004S
            HL
                         CAS 3937-96-0 (4644)
Carboxymethyl benzyl sulfone; C6H5.CH2.SO2.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 25°C 50% U M K1=1.73 1972SGa (65598)3417
                       K(Zn(bpy)+L)=1.75
Medium: 50% dioxan, 0.1 M NaClO4
******************
                         CAS 3724-52-5 (1264)
cis-1,2,3,4-Cyclopentanetetracarboxylic acid; C5H6.(COOH)4
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 30°C 0.19M U K1=5.86 B2=9.66 1985MSb (65634)3418
*****************************
                         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
_____
Zn++ gl KNO3 25°C 0.10M U K1=1.4 1974ILa (65658)3419
********************
                         CAS 10229-63-7 (3872)
N-(Salicylidene)aminoethane; HO.C6H4.CH:N.CH2.CH3
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.50M U K1=6.73 B2=12.8 1971LLa (65667)3420
*******************************
                         CAS 34282-30-9 (3287)
N-(Mercaptoacetyl)-4-methylanilide; CH3.C6H4.NH.CO.CH2.SH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=10.33 B2=19.49 1961MAe (65674)3421
*************************
C9H11NOS
                         CAS 36076-50-3 (4680)
            HL
N-Phenyl-N-methyl-2-mercaptoacetamide; HS.CH2.CO.N(CH3).C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ oth diox/w 30°C 70% U K1=8.32 B2=16.17 1973BSc (65679)3422
********************************
            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
-----
Zn++ gl NaNO3 25°C 0.10M C M K1=4.63 B2= 8.24 2000ZLa (65870)3423
```

```
B(ZnLA)=10.91
A=12-Pentyl-1,4,7,10-tetraazacyclotridecane-11,13-dione.
______
      gl KNO3 35°C 0.10M C M K1=4.64
Zn++
                                  1999DSb (65871)3424
                         B(ZnAL)=4.78
A is thiamine hydrochloride.
 -----
Zn++ vlt NaClO4 25°C 1.0M C
                                   1999VKc (65872)3425
                       Μ
                         B(ZnLA)=5.36
                         B(ZnLA2)=8.60
Method: polarography. Medium pH: 8.5. A is 4-picoline.
______
Zn++ gl NaClO4 25°C 0.20M U
                       M K1=4.70 B2= 8.42 1997PJa (65873)3426
                         K(Zn(bpy)+L)=4.09
                         K(Zn(phen)+L)=4.39
                         K(ZnA+L)=4.14
                         K(Zn(his)+L)=3.81
A is 2,2'-bipyridylamine. K(Zn(ida)+L)=3.66.
                       M K1=4.64
                                  1997PSb (65874)3427
Zn++
      gl KNO3
             35°C 0.10M C
                         K(ZnL+A)=4.20
H2A is thiamine orthophosphoric acid.
-----
Zn++ gl NaCl04 25°C 0.20M M K1=4.78 1996VBa (65875)3428
______
Zn++ gl NaClO4 25°C 1.0M U M K1=4.55 B2= 7.86 1995KDa (65876)3429
                         K3=2.22
                         B(ZnLA)=6.66
                         B(ZnLA2)=9.32
                         B(ZnL2A)=10.70
Medium pH 8.50. HA is propanoic acid.
______
   gl NaClO4 25°C 0.20M M K1=4.785 B2= 9.26 1994VBb (65877)3430
-----
Zn++ gl NaClO4 25°C 0.20M M K1=4.785 B2= 9.26 1994VBc (65878)3431
______
Zn++ gl NaClO4 25°C 0.20M U T M K1=4.70 B2= 8.42 1993PPa (65879)3432
                         K(ZnA+L)=4.45
A is 2,2'-bipyridylamine. Also data for 35 and 45 C.
------
      gl NaClO4 25°C 0.20M U M K1=4.74 B2=9.21
Zn++
                                      1992VBa (65880)3433
                         B(ZnL(Trp))=9.98
                         B(ZnL(Tyr))=9.75
                                1990RSe (65881)3434
     gl KNO3 35°C 0.10M U
                        K1=4.42
______
Zn++ gl KNO3 25°C 0.10M C M
                                   1989MAd (65882)3435
                         K(ZnA+L)=4.11
                         B(ZnAL)=10.96
```

H2A is N-(2-acetamido)imino diethanoic acid.

```
gl KNO3 35°C 0.20M U M K1=4.61 B2=8.27 1989RVa (65883)3436
Zn++
                       K(ZnA+L)=4.39
A=bis(imidazol-2-yl)methane
______
Zn++ gl KNO3 25°C 0.10M U K1=4.57 1985MKa (65884)3437
______
Zn++ gl KNO3 25°C 0.10M C HM K1=4.38 B2= 8.25 1984ACd (65885)3438
                       B(Zn(atp)L)=9.7
By calorimetry: DH(K1)=-5.0 \text{ kJ mol}-1, DS(K1)=67 \text{ J K}-1 \text{ mol}-1; DH(B2)=-9.2
DS(B2)=130. DH(Zn(atp)L)=-21, DS(Zn(atp)L)=117.
______
     gl NaCl04 37°C 0.15M C M K1=4.208 B2=8.165 1981ABb (65886)3439
B(ZnL(His))=10.209; B(ZnL(Cys))=13.110
   gl KNO3 30°C 0.10M M M K1=4.30 B2= 8.23 1978MSi (65887)3440
                       K(Zn(his)+L)=3.69
                       B(Zn(his)L)=10.36
Zn++ gl KNO3 20°C 0.37M U T K1=4.42 B2=8.5 1966SWa (65888)3441
_____
Zn++ gl oth/un 20°C .005M U B2=8.4
                                1953PEa (65889)3442
Medium: 0.005 ZnSO4
**********************************
             HL B-Phenylalanine CAS 614-19-7 (187)
C9H11N02
3-Amino-3-phenyl-propanoic acid; H2N.CH(C6H5).CH2.COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.20M U M K1=4.57 1988BSc (66004)3443
                     K(Zn(bpy)+L)=4.21
******************************
C9H11NO2
3-Methyl-2-hydroxyacetophenone oxime; (CH3)(H0).C6H3.C(:N.OH).CH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 40°C 75% U K1=7.98 1973PPa (66018)3444
4-Methyl-2-hydroxyacetophenone oxime; (CH3)(H0).C6H3.C(:N.OH).CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl diox/w 40°C 75% U K1=7.86
                                1973PPa (66022)3445
*******************************
5-Methyl-2-hydroxyacetophenone oxime; (CH3)(H0).C6H3.C(:N.OH).CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
gl diox/w 40°C 75% U K1=7.83
                                  1973PPa (66026)3446
C9H11N02
                 N-Tolylglycine CAS 21911-67-1 (627)
N-(3-Methylphenyl)aminoethanoic acid; CH3.C6H4.NH.CH2.COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaClO4 25°C 0.10M U M
                                  1983CLc (66037)3447
                        K(Zn(bpy)+L)=3.40
*****************
C9H11N02
                           CAS 21911-69-3 (634)
N-(4-Methylphenyl)aminoethanoic acid; CH3.C6H4.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl NaClO4 25°C 0.10M U
                                  1984CMa (66044)3448
                       K(Zn(phen)+L)=3.94
******************************
C9H11NO3
                             (6512)
2-Amino-2-(4'-methoxyphenyl)ethanoic acid; NH2.CH(C6H4OCH3)COOH
   -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M M K1=4.08 B2=7.68
                                     1990SMa (66054)3449
*************************
C9H11N03
                 o-Tyrosine
                          CAS 7432-92-9 (735)
2-Amino-3-(2-hydroxyphenyl)propanoic acid; HO.C6H4.CH2.CH(NH2).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KCl
             25°C 0.20M U H
                         K1=6.49 B2=11.78 1984KGa (66062)3450
                        B(ZnHL)=14.59
                        B(ZnH2L2)=29.99
                        B(ZnHL2)=21.33
DH(ZnHL)=-32.2 \text{ kJ mol-1;}DH(ZnH2L2)=-64.2;}DH(ZnHL2)=-21;}DH(ZnL2)=12;}DH(ZnL)=2
******************************
                 m-Tyrosine CAS 587-33-7 (736)
C9H11N03
             H2L
2-Amino-3-(3-hydroxyphenyl)propanoic acid; HO.C6H4.CH2.CH(NH2).COOH
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
    gl KCl 25°C 0.20M U H K1=5.76 B2=9.75
                                     1984KGa (66073)3451
                        B(ZnHL)=14.10
                        B(ZnH2L2)=28.11
                        B(ZnHL2)=19.11
DH(ZnHL)=-30.7;DH(ZnH2L2)=-64.6;DH(ZnHL2)=-35;DH(ZnL2)=3;DH(ZnL)=7 kJ mol-1
********************************
                 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
______
    vlt NaClO4 25°C 1.0M C M
                                    1997KKb (66176)3452
                          K(Zn+HL)=4.15
                          K(Zn+2HL)=8.28
                          K(Zn+3HL)=11.00
                          K(Zn+HL+A)=4.30
Method: polarography. K(Zn+HL+2A)=8.45, K(Zn+2HL+A)=11.30.
HA is pyridoxine (vitamin B6). Medium pH 8.50.
______
Zn++ gl KNO3 35°C 0.10M C M
                                    1997PSb (66177)3453
                          K(Zn+HL)=4.60
                          K(ZnHL+A)=4.30
H2A is thiamine orthophosphoric acid.
______
Zn++ gl NaClO4 25°C 0.20M M K1=4.63 1996VBa (66178)3454
Zn++ gl NaCl04 25°C 0.20M M K1=4.634 B2= 9.01 1994VBb (66179)3455
______
Zn++ gl NaClO4 25°C 0.20M M
                                    1994VBc (66180)3456
                          K(Zn+HL)=4.634
                         K(Zn+2HL)=9.010
______
Zn++ gl NaClO4 25°C 0.20M U M K1=4.70 B2=9.00
                                       1992VBa (66181)3457
                          B(ZnL(Trp))=10.36
                          B(ZnL(Phe))=9.98
______
Zn++ ISE KNO3 25°C 0.10M U K1=6.66 B2=9.70 1985DVa (66182)3458
______
Zn++ gl KNO3 25°C 0.10M C HM
                                    1984ACd (66183)3459
                          K(Zn+HL)=4.21
                          K(Zn+2HL)=8.3
                          *K(Zn(HL)2)=-8.9
                          K(Zn+atp+HL)=9.26
By calorimetry: DH(Zn+HL)=-9.2 kJ mol-1, DS=50 J K-1 mol-1; DH(Zn+2HL)=-20
DS=92; DH(*K)=34, DS(*K)=59; DH(Zn+atp+HL)=1.7, DS=184.
              ------
Zn++ gl KCl 25°C 0.20M U H
                          K1=6.08 B2=9.97 1984KGa (66184)3460
                          B(ZnHL)=14.22
                          B(ZnH2L2)=28.15
                          B(ZnHL2)=19.26
DH(ZnHL)=-31.4 \text{ kJ mol}-1;DH(ZnH2L2)=-67.0;DH(ZnHL2)=-36;DH(ZnL2)=4
-----
      gl KCl 25°C 0.10M C TIH R
                                    1984PEa (66185)3461
Zn++
                          K(Zn+HL)=4.2
                          K(Zn+2HL)=8.2
IUPAC evaluation
Zn++ gl KCl 25°C 0.10M U M
                                    1983MDc (66186)3462
```

```
K(Zn+HL)=4.06
K(Zn+2HL)=8.27
```

							K(Zn+2HL)=8.27	7
Zn++ DH(K1)=6 k	J		25°C	0.10M	С		K1=6.2 B2= B(ZnHL)=14.37 B(ZnHL2)=19.65 B(ZnH2L2)=28.5	
7n++	 α1	NaNO3	20°C					 1971WSa (66188)3464
ZIITT	8-	Naivos	20 C	0.5/11	U		K(Zn+HL)=4.19 K(Zn+2HL)=8.26	
Zn++ Medium: 0.	_		20°C					1953PEa (66189)3465
Zn++				0.01M	U		K(Zn+2HL)=9.1	1952ALa (66190)3466
C9H11NO3			HL	Phen	y1:	serine	CAS 2180- C6H5.CH(OH).C	37-2 (2546)
Metal	Mtd	Medium	Temp	Conc C	al	Flags	Lg K values	Reference ExptNo
Medium: 0.	005	ZnS04						1953PEa (66256)3467
C9H11NO3			HL				CAS 78547 CH2.CH(0.NH2).	7-13-4 (1897)
Metal	Mtd	Medium	Temp	Conc C	al	Flags	Lg K values	Reference ExptNo
	_							1985WTa (66263)3468
C9H11NO3			HL	Peon	olo	oxime	(6250) 0.C6H3(OH).C(:	
Metal	Mtd	Medium	Temp	Conc C	al	Flags	Lg K values	Reference ExptNo
**************************************	****	******	***** HL	******	**	*****	*******	-12.65 1979BRb (66269)3469 ************************************
								Reference ExptNo
								1983CLc (66281)3470
*******			****				K(Zn(bpy)+L)=3 ********	3.23 ********
C9H11NO3			HL				CAS 22094	1-69-5 (633)

```
N-(4-Methoxyphenyl)aminoethanoic acid; CH30.C6H4.NH.CH2.COOH
________
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaClO4 25°C 0.10M U M
                                  1984CMa (66288)3471
                      K(Zn(phen)+L)=4.30
-----
Zn++ gl NaCl04 25°C 0.10M U K1=3.58 1979CXa (66289)3472
********************************
C9H11NO4
                 DOPA
                           CAS 59-92-7 (5)
             H3L
2-Amino-3-(3,4-dihydroxyphenyl)propanoic acid;H2NCH(CH2C6H3(OH)2)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 37°C 0.15M U M K1=12.37 1995NAc (66370)3473
                         B(ZnH2L)=26.07
                         B(ZnLCu)=21.45
Zn++ gl KCl 25°C 0.20M C
                                  1984KDb (66371)3474
                         K(Zn(His)+L)=5.71
                         B(ZnH2L(His))=32.71
                         K(Zn(ATP)+L)=4.91
                         B(ZnH2L(ATP))=27.23
                       M B2=11.07
Zn++ gl KNO3 25°C 0.10M C
                                  1983DAa (66372)3475
                         B(ZnHL)=13.77
                         B(Zn2L2)=16.55
                         B(CuZnH-1L)=7.98
                         B(CuZnH-2L)=1.13
------
Zn++ sp KCl 25°C 0.20M C
                                  1983KGa (66373)3476
                         K(ZnL2+H)=10.44
                         K(ZnHL2+H)=9.65
                         K(ZnH2L2+H)=8.59
Microconstants also reported.
______
                                  1979GKa (66374)3477
Zn++ gl KCl 25°C 0.20M C M B2=18.50
                         B(ZnH2L)=27.00
                         B(ZnHL) = 20.23
                         B(ZnH3L2)=47.18
                         B(ZnH2L2)=38.59
B(ZnHL2)=28.92
Zn++ gl NaCl 25°C 0.12M U M
                                  1978RMa (66375)3478
                         K(Zn+bpy)=5.76
                         K(Zn(bpy)+L)=11.13
                         K(Zn+A)=2.47
                         K(ZnA+L)=12.46
H2A=tartaric acid; additional data for other ternary ligands
______
```

```
Zn++ gl NaCl 25°C 0.12M U M K1=11.03 1978RMc (66376)3479
                         K(Zn(ATP)+L)=7.30
______
Zn++ gl NaClO4 25°C 0.50M U
                                   1977BPc (66377)3480
                         B(ZnH2L)=26.56
                         B(ZnH4L2)=52.67
                         B(ZnH6L3)=78.53
                         B(ZnH5L3)=70.20
B(ZnH4L3)=61.10, B(ZnH3L3)=51.90, B(ZnH2L3)=42.00, B(ZnHL3)=31.80,
B3=21.70.
-----
Zn++ gl NaNO3 20°C 0.50M U
                                  1974GSa (66378)3481
                        K(Zn+H2L)=4.4
Zn++ gl KNO3 25°C 1.0M U K1=9.94 B2=18.06 1972GJa (66379)3482
______
Zn++ gl oth/un 20°C .005M U K1=8.7
                                  1953PEa (66380)3483
Medium: 0.005 ZnSO4
**********************************
C9H11N04S
                            CAS 1080-44-0 (4682)
N-(4-Toluenesulfonyl)glycine, N-tosylglycine; CH3.C6H4.SO2.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     vlt NaClO4 25°C 0.10M U
                                   1991GBb (66413)3484
                         B(Zn(bpy)L)=8.82
                         K(Zn+bpy+H-1L)=11.86
                         K(Zn(bpy)+L)=3.52
                         K(Zn(bpy)+H-1L)=6.56
 -----
Zn++ gl diox/w 30°C 45% U
                        K1=12.00 1984MYa (66414)3485
                         K(Zn+2HL)=8.12
                        K(Zn+HL+L)=10.25
-----
Zn++ vlt oth/un 25°C 0.10M U B2=6.36 1968RFa (66415)3486
______
     ISE NaClO4 20°C 3.0M U
                         K1=2.26 B2=2.81 1967KAa (66416)3487
                        B3=2.88
*********************************
C9H11N04S2
                           CAS 97512-83-9 (1330)
N-Benzenesulfonyl-L-cysteine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 25°C 50% C M
                                   1997MGb (66437)3488
                         B(Zn+HL)=8.96
                         B(Zn(en)(HL))=14.08
                         B(Zn(gly)(HL))=13.94
                         *K(Zn(bpy)(HL))=-8.52
Medium: 50% v/v EtOH/H2O, 0.2 M NaNO3. *K(Zn(en)HL)=-8.70, *K(Zn(gly)HL)=-
```

```
8.80, *K(ZnLbpy)=-9.60, *K(ZnLen)=-9.80, *K(ZnLgly)=-9.90.
           gl diox/w 30°C 50% M
Zn++
                                   1980MDc (66438)3489
                         K(Zn+HL)=8.33
                         K(ZnHL+HL)=7.22
                         *K(ZnH2L2) = -8.20
                         *K(ZnHL2)=-10.30
Medium: 50% v/v dioxane/H2O, 0.50 M NaClO4.
______
      gl NaClO4 21°C 0.50M U T H
                                   1974GMd (66439)3490
Zn++
                         K(Zn+HL)=8.42
At 32 C: K(Zn+HL)=8.15, K(ZnHL+HL)=7.34. Also DH and DS values
*******************************
C9H11N05S
             H2L
                            CAS 85828-29-1 (8747)
N-(Phenylsulfonyl)-L-serine;
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
      gl alc/w 25°C 50% C T H
Zn++
                                   1987MDe (66456)3491
                         K(Zn+HL=ZnL+H)=3.70
                         K(Zn+2HL=ZnL2+2H)=8.56
                         *K(ZnL2)=-10.84
                         *K(ZnH-1L2)=-10.90
Medium: 50% v/v EtOH/H2O, 0.2 M NaNO3. Data for 35, 45 C.
Enthalpy and entropy data.
*********************************
                            CAS 36408-72-7 (7572)
C9H11N3O2
             H2L
2,6-Diacetylpyridine dioxime; C5H3N(C(=NOH)CH3)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     kin alc/w 25°C 24% U
                                   1998YGa (66478)3492
                         *K(ZnH2L) <-6.0
                         K1eff=4.61 (pH=7)
                         K(2ZnL=Zn2L2)eff=3.30 (pH=7)
Medium: 24% v/v EtOH/H20, 4% MeCN, 0.1 M NaCl.
************************
C9H11N3O2S
                              (1273)
1-Ethoxycarbonyl-3-pyridin-2-ylthiourea; C5H4N.NH.CS.NH.CO.OC2H5
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 75% U K1=6.23 B2=12.23 1980SMb (66494)3493
*******************************
C9H11N3O2S
              HL
                            CAS 51146-75-9 (6170)
N-(2-Hydroxy-3-methoxybenzylidene)thiosemicarbazide; CH3O(OH)C6H3.CH:N.CS.NH.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl diox/w 35°C 50% U I K1=7.28 B2=13.56 1993GJa (66501)3494
Medium: 50% v/v dioxane/H20, 0.10 M NaClO4.
Also data for 50% dioxane/H2O, 0.0200.2 M NaClO4. At I=0, K1=7.78.
********************************
                           CAS 19254-08-1 (5893)
C9H12N2O2
2-Amino-N-hydroxy-3-phenylpropanamide, phenylalanine hydroxamic acid;
C6H5.CH2.CH(NH2).CO.NHOH
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C K1=4.84 B2=9.5 1991FKa (66578)3495
                        B(ZnHL)=11.69
C9H12N2O2
                           CAS 66315-20-6 (3272)
N-2'-Aminoethylanthranilic acid; HOOC.C6H4.NH.CH2.CH2.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 35°C 50% U K1=5.4 B2=9.8 1958YSa (66586)3496
*****************************
                           CAS 80028-35-9 (2762)
beta-(6-Methyl-2-pyridyl)-alpha-alanine; CH3.C5H3N.CH2.CH(NH2).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3
            25°C 0.10M M K1=4.22 B2=8.21 1976RNa (66597)3497
B2=8.67 (racemic ligand)
**************************
            H3L
                 Tyr hydroxamic CAS 51344-01-5 (864)
2-Amino-N-hydroxy-3-(4-hydroxyphenyl)propanamide; HO.C6H4.CH2.CH(NH2)CO.NHOH
______
                                  Reference ExptNo
     Mtd Medium Temp Conc Cal Flags Lg K values
Zn++ gl KCl 25°C 0.20M C
                                  1991FKa (66605)3498
                         B(ZnH2L)=20.8
                         B(ZnHL)=14.28
                         B(ZnH2L2)=29.2
********************************
                             (2310)
2-Amino-3-(3-methoxy-4-oxo-1,4-dihydropyridin-1-yl)propanoic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 37°C 0.15M C
                         K1=3.39 B2=6.07 1979SPd (66612)3499
                        K(ZnL=ZnL(OH)+H)=-8.4
                        K3=1.9
**********************************
C9H12N2O4
3,4-Dihydroxyphenylalanine hydroxamic acid, DOPA hydroxamic acid;
H2N.CH(CH2.C6H3(OH)2CO.NHOH
```

```
Reference ExptNo
      Mtd Medium Temp Conc Cal Flags Lg K values
______
     gl KCl
             25°C 0.20M C
                                   1991FKa (66619)3500
                         B(ZnH2L)=21.19
                         B(ZnHL)=14.90
                         B(ZnH2L2)=28.9
**********************************
C9H12N2O4S
             H2L
                             (7330)
2-Aminothiazole-N, N-dipropanoic acid; (C3H2NS)N(CH2.CH2.COOH)2
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.15M U K1=2.74 1997NGa (66623)3501
******************************
                 Uridine CAS 58-96-8 (828)
              HL
C9H12N2O6
Uracil-1-beta-D-ribofuranoside:
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KNO3 25°C 0.10M U T HM
                                   1995RSb (66674)3502
                         B(Zn(ala)L)=9.62
                         B(Zn(phe)L)=9.10
                         B(Zn(trp)L)=9.55
Data for 35 and 45 C. DH(Zn(ala)L)=-19.0 kJ mol-1, DS(Zn(ala)L)=120 J K-1
mol-1; DH(Zn(phe)L)=-20.0, DS(Zn(phe)L)=107; DH(Zn(trp)L)=-20.9, DS=113.
______
Zn++
      gl NaNO3 25°C 0.10M M
                                   1994SIa (66675)3503
                         K(ZnA+L)=6.9
A:1-(9-Acridine)-1,4,7,10-tetraazacyclododecane
______
Zn++ gl NaClO4 25°C 0.10M M M
                                   1993SKe (66676)3504
                         K(ZnA+HL)=5.2
A:1,4,7,10-Tetraazacyclododecane.
______
                         K1=2.39
Zn++
      gl NaNO3 37°C 0.15M U
                                   1990CIa (66677)3505
                        B(ZnH-1L)=-4.79
                       M K1=4.69
Zn++ gl KNO3 35°C 0.10M U
                                  1990RSc (66678)3506
                         K(ZnA+L)=3.58
                         K(ZnB+L)=2.91
                         K(ZnC+L)=2.24
H2A=Iminodiethanoic acid, H3B=NTA, H4C=EDTA
______
                       M K1=2.35
      gl KNO3 35°C 0.10M U
                                   1990RSc (66679)3507
7n++
                         K(ZnL+Ala)=2.08
                         K(ZnL+Phe)=2.05
                         K(ZnL+Trp)=2.04
     ______
Zn++ gl KNO3 25°C 0.10M C T HM K1=3.67 B2=6.86 1987KRa (66680)3508
```

```
35°C 0.10M U M K1=4.75
Zn++
      gl KNO3
                                  1986RRa (66681)3509
Ternary complexes with glycine, oxalate and histidine
**********************************
             H5L
                           CAS 80921-06-8 (2924)
C9H12N2O10
2,3-Diaminopropanoic-N,N'-di-1,3-propanedioic acid;
(HOOC)2CH.NH.CH(COOH).CH2.NH.CH(COOH)2
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      EMF KNO3 25°C 0.10M U K1=11.78 1982KBb (66726)3510
**********************************
                           CAS 78105-09-6 (8186)
C9H12N40
9-(1-Ethoxyethyl)purine;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      kin oth/un 40°C 0.20M C
                      K1=0.27
                                  1980L0a (66755)3511
Medium: 0.20 M Mg(ClO4)2.
**********************************
C9H12N4O2S
                 cyclo-(His-Cys) CAS 20987-75-1 (7984)
cyclo-(Histidyl-cysteinyl);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 0.10M M K1=6.59 B2=12.17 2001GVa (66759)3512
H-Gly-BIMA CAS 206067-21-2 (7574)
C9H12N60
Glycinamido-bis(imidazol-2-yl)methane; NH2CH2CONHCH(C3H3N2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C
                         B2=10.28
                                  1998VSa (66765)3513
                        B(ZnHL)=12.40
                        B(ZnH2L2)=24.04
                        B(ZnHL2)=17.17
                        B(Zn2H-2L2)=0.40
Additional method: esr
**********************************
C9H12O6
                           CAS 16526-68-4 (5948)
cis, cis-1,3,5-Cyclohexanetricarboxylic acid;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl KNO3
             25°C 0.50M U
                         K1=1.76
                                  1983WKa (66770)3514
                        B(ZnHL)=6.40
                        B(ZnH2L)=10.28
********************************
                          CAS 3987-81-2 (493)
4-t-Butylpyridine; C5H4N.(t-C4H9)
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
 -----
      gl KNO3 25°C 0.50M U K1=1.38
                                  1983LRa (66781)3515
*******************************
              HL
                            CAS 63-90-1 (2757)
4-Hydroxyamphetamine;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     gl KNO3 25°C 1.00M C
                      M K1=7.28 1976RSd (66790)3516
                         K(ZnL+ATP)=6.23
*********************************
C9H13N02
             H2L
                  Phenylephrine CAS 61-76-7 (2759)
3-Hydroxy-alpha-(methylaminomethyl)benzyl alcohol; HO.C6H4.CH(CH2.NH.CH3)OH
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
-----
Zn++ gl KNO3 22°C 0.25M U
                                   1984GKa (66807)3517
                         K(Zn+HL)=5.56
------
    gl KNO3 25°C 1.00M C M
                                   1976RSd (66808)3518
                         K(Zn+HL)=6.63
                         K(Zn(ATP)+HL)=5.29
**********************************
                            CAS 35085-65-5 (2758)
4-Hydroxynorephedrine; HO.C6H4.CH(OH).CH(CH3)NH2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 25°C 1.00M C
Zn++
                                   1976RSd (66813)3519
                         K(Zn+HL)=6.06
                         K(Zn(ATP)+HL)=3.15
************
C9H13N03
                  Normetanephrine CAS 1011-74-1 (2760)
             H2L
2-(Aminomethyl)-4-hydroxy-3-methoxybenzyl alcohol;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
      gl KNO3
             25°C 1.00M C
                                   1976RSd (66820)3520
                         K(Zn+HL)=6.06
                         K(Zn(ATP)+HL)=4.58
******************
             H2L
                  (-)Adrenaline CAS 51-43-4 (252)
4-(1-Hydroxy-2-(methylamino)ethyl)-1,2-dihydroxybenzene,
Epinephrine;CH3NHCH(OH)C6H3(OH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
 .....
    gl KCl
             25°C 0.20M C B2=18.19
                                  1981GKb (66844)3521
```

B(ZnHL)=19.75 B(ZnH2L2)=37.99 B(ZnHL2)=28.35 B(ZnH-1L2)=6.74

							B(ZnH-1L2)=6.74	4
Zn++	gl	KNO3	25°C	1.00M	C	M	K(Zn+HL)=9.72 K(Zn(ATP)+HL)=	1976RSd (66845)3522 8.74
Zn++	gl	NaNO3		0.50M			B(ZnHL)=18.26	1974GSa (66846)3523
K1 adjuste	d to	give h	25°C ypoth	0.10M etical	U mid	crosco	pic constant	20.12 1966JNa (66847)3524
C9H13NO6 2,6-Dicarb			H3L				(3881)	
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Zn++ ***********************************	****							1968KTd (66875)3525 *******
(Glycylami	no)m	ethyl(p	henylı 	phosph	inio	acio	l);	
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	E Lg K values	Reference ExptNo
C9H13N2O9P	****	*****	***** H3L	***** UMP	***	* ****	B(ZnHL)=10.21 B(ZnH-2L)=-13.	*******
Uridine-5'	-mon	ophosph	oric a	acid; 				
Metal	Mtd	Medium	Temp	Conc	Cal 	Flags	Lg K values	Reference ExptNo
Zn++ Medium: 0.					_	.1 kJ	mol-1, DS(K1)=	2002HTb (66946)3527 83 J K-1 mol-1.
Zn++	gl	KNO3	35°C	0.10M	U	М	K(Zn+HL)=2.23 K(Zn+HL+Gly)=1 K(Zn+HL+His)=1 K(Zn+HL+histam	1.33
Zn++ IUPAC eval			25°C	0.10M	С	1	K(Zn+HL)=2.38	1991SMa (66948)3529
 Zn++	gl	 NaNO3	25°C	0.10M	 C			1988MSa (66949)3530

K(Zn+HL)=2.02

Zn++	nmr	oth/un	23°C	0.30M	U	 М			(66950)3531
A=Tetrakis	(4-N	-methyl	pyridy	yl)por	phyr:	in.	Keff(ZnA+HL)=2.6 pD=7.0	01	
Zn++	gl	NaC104	25°C	0.10M	С		K(Zn+HL)=2.03	1984SSe	(66951)3532
********* C9H13N3O4 Deoxycytic		*****	***** HL	*****	****	****	**************************************		
Metal	Mtd	Medium	Temp	Conc	Cal I	Flag	s Lg K values	Refer	rence ExptNo
Zn++	gl	NaC104	20°C	0.10M	U		B(ZnH-2L)=-14.74		(66990)3533
********* C9H13N3O5 Cytidine,			L	Cyt	idine	e	**************************************	*******	
Metal	Mtd	Medium	Temp	Conc	Cal I	Flag	s Lg K values	Refer	rence ExptNo
Zn++	gl	NaClO4	20°C	0.10M	U		B(ZnH-2L)=-14.54		(67026)3534
Zn++	gl	KNO3	25°C	0.10M	UT	HM	K(ZnL+ala)=4.97 K(ZnL+phe)=5.11 K(ZnL+trp)=6.18	1995RSb	(67027)3535
							kJ mol-1, DS(Zno 1; DH(Zn(trp)L)=		
Zn++	nmr	KCl	25°C	0.60M	U		K1=-0.42	1992CPa	(67028)3536
Zn++	gl	NaNO3	25°C	0.50M	С		K1=0.20	1992KJa	(67029)3537
Zn++	gl	KNO3	35°C	0.10M	U	M	K1=0.76 B(ZnL(Ala))=5.06 B(ZnL(Phe))=5.33 B(ZnL(Trp))=5.62	5 1	(67030)3538
Zn++	gl	KNO3	35°C	0.10M	С	M	K1=2.60 B(ZnHL(Gly))=13 B(ZnL(oxalate))= B(ZnL(His))=11.9 B(ZnL(histamine)	.77 =9.40 95	(67031)3539
Zn++	gl	KNO3	45°C	0.10M	U		K1=2.82		•
Zn++	nmr	non-aq	32°C	100%	U				(67033)3541

```
Medium: DMSO-d6
______
                            1968WLa (67034)3542
     nmr non-aq 36°C 100% U
                     K1=0.87
Medium: (CH3)2SO, method: nmr
*****************************
            L
                        CAS 14088-79-0 (3252)
C9H14N2
N-Benzylethylenediamine; C6H5.CH2.NH.CH2.CH2.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl diox/w 30°C 50% U K1=5.34 B2=8.96 1972GPb (67118)3543
*******************************
C9H14N2O5
            L beta-Asp-Pro CAS 66180-29-8 (8142)
Pyrrolidine-2-carboxy-1-(2-amino-4-one-butanoic acid), beta-Aspartly-proline;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=5.6 1989ARa (67128)3544
UDP
C9H14N2O12P2
            H4L
                        CAS 58-98-0 (3288)
Uridine-5'-diphosphoric acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=4.07 1999SSa (67148)3545
Zn++ gl NaNO3 25°C 0.10M M
                      K(Zn+H2L)=2.3
                      K(ZnHL+H)=4.6
Zn++ gl KNO3 25°C 0.10M U K1=4.05 1995SBa (67149)3546
*******************************
           H2L dCMP
                        CAS 1032-65-1 (5783)
Deoxycytidine-5'-monophosphoric acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaNO3 25°C 0.10M C M K1=2.14
                               1995SFa (67176)3547
                      K(Zn+HL)=0.9
K(Zn+HA)=2.74, K(Zn+A)=1.86. A=H2(cis-(NH3)2Pt(dCMP)2)
------
    nmr oth/un 25°C 0.20M U
                               1985PGa (67177)3548
Zn++
                      Keff(ZnA+L)=2.48
                      Keff(ZnAL+L)=0.30
A=Tetrakis(4-N-methylpyridyl)porphyrin. pH=6.9
*********************************
               CMP-5
                        CAS 63-37-6 (1243)
C9H14N3O8P
            H2L
Cytidine-5'-monophosphoric acid, Cytidilic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

Zn++ Medium: 0.						mol-1, DS(K1)=8		(67218)3549 L mol-1.
	_					K1=2.96 SO, TAPSO and AC		(67219)3550
Zn++ IUPAC eval	_		25°C	0.10M C		T K1=2.42	1991SMa	(67220)3551
Zn++	gl	NaNO3	25°C			K1=2.06		
Zn++ B(ZnLD)=14 HD is hist	1.05.	HA is		0.10M U	М	K(Zn+HL+HA)=5.8 K(Zn+HL+B)=6.80 K(ZnLE+H)=2.96 B(ZnLC)=13.98 alic acid; C is	1986RRe 90	(67222)3553
Zn++	gl	NaNO3	35°C	0.10M U	 М	K1=2.25 K(Zn(phen)+L)=3 K(Zn(GlyGly)+L) B(Zn(salicylate	.76 =2.06	
Zn++	gl	KC1	25°C	0.10M U		K1=2.56	1984MDh	(67224)3555
				0.000				
**************************************	gl ****	KCl *****	25°C *****	0.10M U ******* Carnos	 ***** ine	K1=2.54 ************** CAS 305-84 (CH2.C3H3N2).COO	1958WSa ********	(67225)3556 ******
Zn++ ********* C9H14N4O3 3-Alanyl-h	gl *****	KCl ******* dine; H	25°C ***** HL 2N.CH2	0.10M U ******* Carnos 2.CH2.CO.	***** ine NH.CH	K1=2.54 ************************************	1958WSa ******* 0 (272)	(67225)3556 *****************
Zn++ ********* C9H14N4O3 3-Alanyl-h	gl ***** nisti Mtd	KC1 ****** dine; H Medium	25°C ****** HL 2N.CH2 Temp	0.10M U ******* Carnos 2.CH2.CO. Conc Cal	***** ine NH.CH Flag	K1=2.54 ************** CAS 305-84 (CH2.C3H3N2).COC	1958WSa ******** -0 (272) H Refe	(67225)3556 ***************)
Zn++ ********* C9H14N4O3 3-Alanyl-h Metal Zn++	gl ***** nisti Mtd gl	KC1 ****** dine; Hi Medium NaClO4	25°C ***** HL 2N.CH2 Temp 25°C	0.10M U ******* Carnos 2.CH2.CO. Conc Cal	***** ine NH.CH Flag	K1=2.54 *************** CAS 305-84 (CH2.C3H3N2).COC S Lg K values K1=4.05	1958WSa ************************************	(67225)3556 ***************)
Zn++ ********* C9H14N4O3 3-Alanyl-h Metal Zn++	gl **** histi Mtd gl gl	KC1 ****** dine; H Medium NaClO4 KC1	25°C ***** HL 2N.CH2 Temp 25°C	0.10M U ******* Carnos 2.CH2.CO. Conc Cal 0.10M C	***** ine NH.CH Flag	K1=2.54 *************** CAS 305-84 (CH2.C3H3N2).COC	1958WSa ************************************	(67225)3556 ********* rence ExptNo (67299)3557
Zn++ ********* C9H14N403 3-Alanyl-h Metal Zn++ Zn++	gl **** histi Mtd gl gl	KC1 ****** dine; H: Medium NaC104 KC1	25°C ***** HL 2N.CH2 Temp 25°C 37°C	0.10M U ******* Carnos 2.CH2.CO. Conc Cal 0.10M C 0.20M C	***** ine NH.CH Flag M	K1=2.54 *************** CAS 305-84 (CH2.C3H3N2).COC	1958WSa ************************************	(67225)3556 ********* rence ExptNo (67299)3557 (67300)3558

```
gl oth/un 25°C 0.16M U
                         K1=2.30 B2=4.40 1960MEa (67304)3562
Zn++
                         K3 = 2.00
                         K4=1.7
********************************
                 Ala-His CAS 3253-17-6 (5767)
C9H14N4O3
              HL
Alanyl-histidine;
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U
                       K1=4.31 B2=8.1
                                      1992LPc (67338)3563
                        B(Zn2H-2L2)=-4.48
Zn++ gl KNO3 25°C 0.30M C
                        K1=3.5 B2=7.8 1985RDa (67339)3564
                         B(ZnH-1L)=-3.6
                         B(ZnHL)=10.3
                         B(ZnH-1L2)=0.4
Zn++ gl NaNO3 37°C 0.10M C
                                   1984RRc (67340)3565
                         B(ZnHL)=9.87
                         B(ZnH-1L)=-3.23
By e.s.r. at 32 C, B(ZnHL)=10.05, B(ZnH-1L)=-2.80, B(ZnHL2)=14.00
**********************************
                         CAS 121149-93-7 (2512)
9-(4-Phosphonobutyl)adenine;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.10M M
                       K1=2.75
                                   2000GKa (67352)3566
                         K(Zn+HL)=1.4
                         *K(ZnHL)=-6.3
*****************************
C9H15N03S
             H2L
                 Captopril CAS 62571-86-2 (5773)
1-(2(S)-3-Mercapto-2-methyl-1-oxopropanyl)-L-proline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M M
                                  1994KTa (67388)3567
                         K(ZnA+L)=7.0
A:1,4,7,10-Tetraazacyclododecane
______
Zn++ gl NaCl 37°C 0.15M U
                         K1=5.38 B2=11.66 1985HSc (67389)3568
                         B3=15.30
                         B(ZnH-1L)=-2.14
                         B(ZnH-1L2)=1.65
*********************************
2-Amino-2-(2,3-dideoxy-D-erythro-hex-2-enopyranosyl)-propanoic acid;
-----
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
25°C 0.10M U K1=8.96 B2=11.59 1990BDa (67394)3569
    gl KNO3
***********************
C9H15N06
                          (7177)
2-Aminopentanoic-N,N-diethanoic acid; C3H7C(COOH)N(CH2COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 20°C 0.10M U K1=10.17 1974RMf (67398)3570
*******************
                         CAS 817-11-8 (3271)
3,3',3''-Nitrilotripropanoic acid; (HOOC.CH2.CH2)3N
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ cal KNO3 25°C 0.10M C H
                               1983GSb (67426)3571
DH(K1)=13.18 kJ mol-1, DS(K1)=151 J K-1 mol-1
-----
Zn++ gl KCl 30°C 0.10M U K1=5.3 1953CMa (67427)3572
H3L
                         CAS 95482-53-4 (3270)
N-(2-Carboxyethyl)-3,3-iminodipropanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl
            30°C 0.10M U K1=7.9 1953CMa (67438)3573
*******************************
            H4L
                         CAS 6056-53-7 (1337)
C9H15N06P2
N-Benzyliminobis(methylenephosphonic) acid; C6H5CH2N(CH2PO3H2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=9.39
Zn++ gl KCl 25°C 0.20M C
                               1999MKa (67455)3574
                      B(ZnHL)=15.26
                      B(ZnH2L)=19.80
                      B(ZnH-1L)=-0.20
                      B(ZnH-2L)=-11.39
*K(ZnL)=-9.59; K(ZnOH+L)=9.19; K(ZnOH+ZnL=Zn(OH)L+Zn)=-0.20.
******************************
C9H15N06S
           H3L DCMM
                        CAS 72306-91-3 (8239)
Dicarboxymethyl-N,N-methionine acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl NaCl 25°C 0.50M C
Zn++
                               1980MFc (67466)3575
                      K(Zn+HL)=5.57
                      K(ZnHL+HL)=3.93
Addditional methods: conductivity, spectrophotometry
*************************
                         CAS 63-39-8 (407)
C9H15N2O15P3
                UTP
            H5L
```

```
Uridine-5'-triphosphoric acid;
     -----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       R
Zn++ gl R4N.X 25°C 0.10M C
                                 1991SMa (67500)3576
                        K(Zn+HL)=5.06
                        K(Zn+H2L)=2.56
IUPAC evaluation
______
Zn++ gl NaNO3 25°C 0.10M C
                                 1987STb (67501)3577
                        K(Zn+HL)=5.01
                        K(ZnL+H)=4.17
                        K(Zn+H2L)=2.73
Zn++ gl KNO3 25°C 0.10M U T H K1=7.21 1983RRe (67502)3578
Also data for 35 and 45 C. At 45 C: K1=7.00.
DH(K1)=-19.2 \text{ kJ mol}-1, DS(K1)=74 \text{ J K}-1 \text{ mol}-1.
______
Zn++ gl NaClO4 25°C 0.10M C M
                                 1978FMa (67503)3579
                        K(Zn+HL)=4.75
                        B(Zn(HL)(bpy))=10.20
______
Zn++ gl KNO3 35°C 0.10M U
                                 1976KRa (67504)3580
                      K(Zn+HL)=7.10
Zn++ nmr NaClO4 25°C 0.10M U M
                                 1975SIb (67505)3581
                        K(ZnL+H)=8.71
                        K(Zn(OH)L+H)=9.24
                        K(Zn(bpy)L+H)=9.13
By spectrophotometry, K(ZnL+H)=8.8.
***********************************
                          CAS 60354-75-8 (6081)
2,6-Di(2-aminoethyl)pyridine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaNO3 20°C 1M C K1=7.50 1992CPb (67539)3582
                       B(ZnH-1L)=-1.25
**********************
                          CAS 72830-26-3 (3253)
2-(2-(2-Aminoethyl)aminoethyl)pyridine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl oth/un 25°C 0.10M U K1=6.7
                                1964LMb (67546)3583
*******************************
                          CAS 96551-18-7 (6150)
2-Amino-3-aminomethyl-4-methoxymethyl-6-methylpyridine;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

Zn++ ******	gl ****	KNO3	25°C ****	0.35M M	****	K1=2.93 B2	=5.7 ? 1985CSa (67554)
C9H15N3O4 Glycyl-gly			HL	Gly-Gl	y-Pro	(6982)	
Metal	Mtd	Medium	Temp	Conc Cal	Flags	s Lg K values	Reference ExptNo
**************************************	**** .P2	******	***** H3L	0.5M U ******* CDP	*****	K1=3.35 ***********************************	1974KHb (67560)3585
Cytidine-5	'-di	phospho 	ric a	cid; 			
Metal	Mtd	Medium	Temp	Conc Cal	Flags	_	Reference ExptNo
						K1=4.10 K(Zn+HL)=2.4 K(ZnL+H)=4.69	1999SSa (67577)3586
Zn++	gl	KC1	25°C	0.10M U		K1=3.93 B(ZnHL)=8.69	1984MDb (67578)3587
**************************************			H2L			CAS 1240 id;	**************************************
Metal	Mtd	Medium	Temp	Conc Cal	Flags		Reference ExptNo
	****	*****	***** H2L	******	*****	**************************************	1990HNa (67613)3588 ***********************************
Metal	Mtd	Medium	Temp	Conc Cal	Flags	s Lg K values	Reference ExptNo
**************************************	****	******	***** H2L	*******	*****	******	1989ARa (67617)3589 ************* 9-35-8 (3274)
Metal	Mtd	Medium	Temp	Conc Cal		_	Reference ExptNo
	**** P3	******	***** H4L	******* CTP	****	K1=6.86 B2	=12.09
Metal	Mtd	Medium	Temp	Conc Cal	Flags	s Lg K values	Reference ExptNo
Zn++	gl	R4N.X	25°C	0.10M C	TI F	R K1=5.09 K(Zn+HL)=2.88	1991SMa (67674)3591

IUPAC ev	aluation
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IOIAC CVAI	uacı	OII							
Zn++	gl	NaNO3	25°C	0.10M	С		K1=5.03 K(Zn+HL)=3.05 K(ZnL+H)=4.57	1987STb	(67675)3592
Zn++	gl	KC1	25°C	0.10M	U		K1=4.79 B(ZnHL)=9.36	1984MDb	(67676)3593
	for	35 and -	45 C.	At 45	C:	K1=5	K1=5.22 K(Zn+HL)=4.56 .02, K(Zn+HL)=4. ol-1; DH(Zn+HL)=	40.	(67677)3594 S=38
Zn++						M		1977SIc 44	(67678)3595
Zn++	nmr	NaC104	25°C	0.10M	U		K(Zn(OH)L+H)=8.		(67679)3596
C9H16N4O4	****	*****	***** L	*****	***	*****	K1=5.12 K(Zn+HL)=4.48 ***********************************	******	******
N,N'-Bis(2	-hyd	roxyimi 	noproj	oionyl)pr	opane	-1,3-diamine; 		
Metal	Mtd	Medium	Temp	Conc	Cal	Flag	s Lg K values	Refe	rence ExptNo
Zn++		NaCl					K1=6.74 B(ZnH-1L)=-3.36 B(ZnH-2L)=-14.5	5 60	, ,
**************************************			HL		***	****	**************************************	******	******
Metal	Mtd	Medium	Temp	Conc	 Cal	Flag	s Lg K values	Refe	rence ExptNo
Zn++							B(ZnH-1L)=-3.13 B(ZnH-2L)=-12.8 B(ZnH-1L2)=-0.1	3 37 .6	(67728)3599
C9H16O4			H2L				**************************************		
Metal	Mtd	Medium	Temp	Conc (cal	Flag	s Lg K values	Refe	rence ExptNo

```
gl KNO3 25°C 0.10M C H K1=2.50 B2=4.33
Zn++
                                     1989ABa (67763)3600
                         B(Zn(bpy)L)=7.65
DH(K1)=19.5 kJ mol-1, DS(K1)=111.7 J K-1 mol-1
______
Zn++ gl NaClO4 25°C 0.10M U K1=2.45 19700Va (67764)3601
_____
Zn++ con oth/un 25°C .001M U
                         K1=3.15 1931IRb (67765)3602
C9H17N05
             HL
                Pantothenic acd CAS 63409-48-3 (2629)
N-(2,4-Dihydroxy-3,3-dimethylbutyryl)-3-aminopropanoic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.24M U K1=1.65 1980FMd (67811)3603
CAS 58144-32-4 (6077)
N-(1,1-Di(hydroxymethyl)propyl)iminodiethanoic acid;
(HO.CH2)2C(CH2.CH3).N(CH2.COOH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaClO4 25°C 1.0M C
                        K1=9.67 B2=13.60 1981ASb (67824)3604
                         B(ZnHL)=12.61
                        B(ZnH-1L)=1.38
*******************************
                             (6381)
2-(D-Deoxyglucosyl)thiazolidine-4-carboxylic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                         K1=2.81
     gl NaClO4 25°C 0.10M C
Zn++
                                  1990GNa (67833)3605
                         B(ZnH-1L)=-3.72
                         B(ZnH-2L)=-11.07
                         B(Zn2H-5L2)=-27.00
**********************************
C9H17N07S
                             (6462)
2(RS)-1,2,3,4,5-Pentahydroxypentylthiazolidine-4(R)-carboxylic acid;
  -----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++
    gl NaClO4 25°C 0.10M C
                         K1 = 4.01
                                  1992GNa (67839)3606
                         B(Zn2L)=6.93
                         B(Zn2H-1L)=-0.94
                        B(Zn2H-2L)=-9.20
Zn++ gl NaClO4 25°C 0.10M C
                               B2=6.51 1990GNa (67840)3607
                         K1=3.75
                         B(ZnH-1L2)=-0.95
                         B(ZnH-2L2)=-8.24
Data also for D-galactosyl:K1=4.01,B2=6.93,B(ZnH-1L2)=-0.94,B(ZnH-2L2)=-9.20
*********************************
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```
C9H17N3O4S
               Ala-Ala-Cys (6477)
           H2L
Alanyl-alanyl-cysteine
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                    B2=12.09 1990CRa (67863)3608
Zn++ gl KCl 25°C 0.20M U
                      B(ZnHL2)=20.40
                      B(ZnH2L2)=27.86
                      B(ZnH-1L2)=2.83
********************************
                     CAS 709640-94-8 (9155)
               2.2-DIHA
N-Hydroxy-N'-[3-(hydroxymethylamino)-3-oxopropyl]-N-methyl-butanediamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=7.95 2004FBa (67878)3609
Zn++ gl KNO3 25°C 0.20M C
                      B(ZnHL)=13.83
                      B(Zn2L3)=22.01
****************************
                    CAS 1999-42-4 (264)
C9H18N2O3
               Ala-Leu
Alanyl-leucine; H2N.CH(CH3).CO.NH.CH(CH2.CH(CH3)2).COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KCl 20°C 0.20M U K1=2.93 B2=5.67 1982KRc (67898)3610
______
Zn++ gl KNO3 20°C 0.5M U K1=3.20 1974KHb (67899)3611
HL Leu-Ala CAS 7298-84-2 (4659)
Leucylalanine- H2N.CH(CH2.CH(CH3)2).CO.NH.CH(CH3).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                    K1=2.45
Zn++ ISE oth/un 20°C 0.20M U
                              1967KKa (67911)3612
                     K1=2.93 (L-leucyl-D-alanine)
******************************
                        CAS 150-11-8 (1154)
N,N-Di(n-butyl)dithiocarbamate; (C4H9)2N.CSSH
------
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     EMF non-aq 25°C 100% U B2=12.8 1987USa (67987)3613
Medium: DMF, 0.1 M LiClO4
*********************************
           H2L
                          (3277)
2-Di(carboxymethyl)aminoethyltrimethylammonium cation
          Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ gl KCl 20°C 0.10M U K1=5.34 B2=9.85 1955SAa (67996)3614
*************************
                13-AneN2O2 CAS 60350-15-4 (5662)
1,4-Dioxa-7,11-diazacyclotridecane;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaNO3 25°C 0.10M U K1=4.89 1986TSa (68034)3615
Zn++ gl NaNO3 25°C 0.10M U K1=4.89 1985THd (68035)3616
*************************
        HL HEPPS CAS 16052-06-5 (7900)
C9H20N2O4S
N-(2-Hydroxethyl)piperazine-N'-3-propanesulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
               0.7M C
     vlt oth/un
                                 2001SVa (68042)3617
                        K1eff(ZnL)=8.54
Method: cathodic stripping voltammetry with ligand exchange.
Medium: sea water, 0.05 M Tris (pH 8.07).
______
     vlt oth/un
               0.7M C
Zn++
                                 2001SVa (68043)3618
                        K1eff(ZnL)=8.54
Method: cathodic stripping voltammetry with ligand exchange.
Medium: sea water, 0.05 M Tris (pH 8.07).
*******************************
                      CAS 68399-78-0 (2011)
C9H20N2O5S
             HL
                HEPPS0
N-(2-Hydroxyethyl)piperazine-N'-(2-hydroxypropanesulfonic acid);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=4.13 2001AOa (68051)3619
*******************************
                          CAS 267643-08-3 (919)
(2S)-2,3-Diaminopropyl-beta-D-glucopyranoside;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       K1=5.49 B2= 9.80 2000SMa (68058)3620
Zn++ gl NaCl 25°C 0.16M C
                        K(Zn+HL)=2.3
                        K(ZnL+OH)=4.2
                        K(ZnL2+OH)=4.20
                        K(ZnL2+20H)=8.0
********************************
                 CAS 221558-98-1 (690)
C9H20N2O6
1,3-Diamino-2-propyl-alpha-D-mannopyranoside;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 25°C 0.16M C K1=4.3 B2= 8.30 2000SMa (68062)3621
```

```
K(ZnL+OH)=4.5
K(ZnL2+OH)=5.2
K(ZnL2+2OH)=9.3
```

```
********************************
C9H20N2O6
                              CAS 220972-45-2 (622)
1,3-Diamino-2-propyl-beta-D-glucopyranoside;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                      Reference ExptNo
______
                        K1=3.95
      gl NaCl 25°C 0.16M C
                                     2000SMa (68066)3622
                         K(ZnL+OH)=3.8
*********************************
C9H21N3
                               (6817)
1,4,8-Triazacyclododecane;
       Mtd Medium Temp Conc Cal Flags Lg K values
                                       Reference ExptNo
______
       gl NaClO4 25°C 0.10M U
                           K1=7.01
                                     1990KSa (68166)3623
                          *K(ZnL(H20))=-7.34
**********************************
                              CAS 294-80-4 (1531)
1,5,9-Triazacyclododecane; cyclo(-NH.(CH2)3.NH.(CH2)3.NH.(CH2)3-)
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                                 1998SJa (68181)3624
Zn++ gl non-aq 25°C 10% C
                           K1=8.70
                           *K(Zn(H20)L)=-7.53
Medium: 10.2% (v/v) acetonitrile/H2O, 0.1 M NaClO4.
                           K1=8.25
Zn++
       gl NaClO4 25°C 0.10M U H
                                     1996IFb (68182)3625
                           *K(ZnL) = -7.44
DH(K1)=14.6 \text{ kJ mol}-1, DS(K1)=207.1 J K-1 mol}-1.
______
   gl NaClO4 25°C 0.10M U T
                          K1 = 8.41
                                     1990KSa (68183)3626
                           *K(ZnL(H20))=-7.30
At 0 C: *K(ZnL(H20))=-7.89.
Zn++
     gl NaClO4 25°C 0.20M U
                                     1990KSa (68184)3627
                           K(ZnL+OH)=6.4
                           K(ZnL+SCN)=2.4
                           K(ZnL+I)=1.6
                           K(ZnL+Br)=1.5
K(ZnL+CH3COO)=2.6. K(ZnL+F)=0.8.
______
                           K1=8.75
      gl KNO3 25°C 0.10M M
                                     1978Z0a (68185)3628
                           B(ZnL(OH))=15.04
Zn++ gl KNO3 25°C 0.10M U K1=8.8
                                     1975DDa (68186)3629
************************************
C9H21N30
                               (2479)
```

```
1-0xa-4,7,11-triazacyclotridecane; cyclo(-0.(CH2.CH2.NH)2.CH2.CH2.CH2.NH.CH2.CH2-)
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        K1=9.80
Zn++ gl KNO3 25°C 0.10M U
                                   1991ACa (68197)3630
                         B(ZnH-1L)=2.19
                         B(ZnH-2L)=-8.6
                         K(ZnL+OH)=6.21
                         K(ZnL+2OH)=9.24
    gl NaNO3 25°C 0.10M U K1=9.90 1986TSa (68198)3631
_____
Zn++ gl NaNO3 25°C 0.10M C K1=9.94 1983THa (68199)3632
*********************************
                      CAS 221233-44-9 (7658)
C9H21N3O3
cis,cis,cis-2,4,6-Trimethoxycyclohexane-1,3,5-triamine;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=10.80 B2=18.54 1999WKa (68210)3633
******************************
C9H22N4
                            CAS 295-14-7 (9)
1,4,7,10-Tetraazacyclotridecane; cyclo(-(NH.CH2.CH2.)4.CH2-)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U H K1=15.74
                                 1980MPa (68242)3634
DH(K1) = -70.0 \text{ kJ mol} -1, DS(K1) = 86.5 \text{ J K} -1 \text{ mol} -1
Zn++ vlt oth/un 25°C 0.20M U H K1=15.6
                                  1977KKa (68243)3635
DH(K1) = -32.6 \text{ kJ mol} - 1
*************************
                 N-Methylcyclen CAS 133008-74-9 (8674)
1-Methyl-1,4,7,10-tetraazacyclododecane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M C
                                   1995KKc (68250)3636
                         K(ZnL+A)=2.0
                         K(ZnL+SCN)=2.4
                         K(ZnL+B)=3.3
                         K(ZnL+C1)=1.7
HA is ethanoic acid, H2B is 4-nitrophenylphosphoric acid.
*******************************
                           CAS 22217-18-1 (4657)
N,N'-Bis(2-aminoethyl)-1,4-diazacycloheptane;
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaCl04 25°C 0.10M U K1=10.18 1977PBb (68256)3637
```

```
*******************************
C9H24N3O6P3
                        (7110)
1,4,7-Triazacyclononane-1,4,7-triyltrimethylenetris(phosphinic acid);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=13.04
                            1995BLa (68287)3638
********************
C9H24N3O9P3
           H6L
              NOTPH
                       CAS 83843-39-3 (224)
1,4,7-Triazacyclononane-N,N',N"-tris(methylenephosphonic acid);
_____
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
   gl KCl 25°C 1.0M U
                  K1=24.9 1984KMa (68300)3639
                    K(Zn+HL)=18.3
                    K(Zn+H2L)=14.1
CAS 129880-56-4 (1533)
1,4,10,13-Tetraazatridecane; H2N.(CH2)2.NH.(CH2)5.NH.(CH2)2.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 1.00M C H K1=9.80
                            1982ABc (68332)3640
                    B(ZnH2L)=22.9
By calorimetry: DH1=-31.0 kJ mol-1, DS1=80.3
CAS 4605-14-5 (1797)
1,5,9,13-Tetraazatridecane; H2N.(CH2)3.NH.(CH2)3.NH.(CH2)3.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 20°C 0.10M U K1=8.20 1991WBa (68355)3641
Zn++ gl oth/un 25°C ? U K1=9.12
                            1976NGa (68356)3642
Zn++ gl NaClO4 25°C ? U K1=9.12
                          1976NGe (68357)3643
______
Zn++ cal NaNO3 25°C 0.10M U K1=9.30 1972BFb (68358)3644
CAS 4963-47-7 (546)
Tris-(3-aminopropyl)amine;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                    K1=10.72
    gl NaNO3 25°C 0.10M M
                            2003IIa (68382)3645
                    *K(ZnL)=-9.99
Zn++ gl KCl 25°C 0.10M U K1=10.702
                            1968DPa (68383)3646
______
Zn++ sp KCl 25°C 0.10M U K1=10.70 1968VPa (68384)3647
```

```
gl NaNO3 20°C 0.10M U K1=9.41 1962TAb (68385)3648
********************
C9H28N3O15P5
            10L
                DTPPH
                          CAS 15827-60-8 (2921)
Diethylenetriamine-N,N,N',N",N"-penta(methylphosphonic acid);
H2O3PCH2.N(CH2CH2.N(CH2PO3H2)2)2 H
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       K1=16.45
Zn++ gl KCl 25°C 0.10M U
                                 1967KDa (68397)3649
                        K(Zn+HL)=13.36
                        K(Zn+H2L)=10.41
                        K(Zn+H3L)=8.44
                        K(Zn+H4L)=6.77
K(Zn+H5L)=5.23, K(Zn+H6L)=3.91
*********************************
C10H603
                          CAS 83-72-7 (3294)
2-Hydroxy-1,4-naphthoquinone;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ sp alc/w 25°C 50% M K1=2.61
                                 2000HSc (68453)3650
                       K(Zn+H2L=ZnL+2H)=-2.65
Medium: 50% v/v EtOH/H2O, 0.10 M NaClO4.
______
     vlt oth/un 25°C 0.20M U B2=8.49 1966SPa (68454)3651
phosphate buffer
______
Zn++ gl diox/w 30°C 75% U K1=6.14 B2=11.55 1960KFc (68455)3652
*************************
                         CAS 481-39-0 (3295)
C10H603
5-Hydroxy-1,4-naphthoquinone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp alc/w 25°C 50% M
                       K1=4.21
                              B2=12.07 2000HSc (68471)3653
                        K(Zn+HL=ZnL+H)=-4.45
                        K(ZnL+HL=ZnL2+H)=-0.84
Medium: 50% v/v EtOH/H2O, 0.10 M NaClO4.
**********************************
                          CAS 475-38-7 (6120)
C10H604
5,8-Dihydroxy-1,4-naphthoquinone;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        K1=2.9
Zn++ sp alc/w 25°C 50% M
                                 2000HSc (68487)3654
                        K(Zn+H2L=ZnL+2H)=-8.68
                        K(Zn(OH)2L+2H)=14.18
Medium: 50% v/v EtOH/H2O, 0.10 M NaClO4.
**********************************
```

```
C10H608
               Pyromellitic Ac CAS 89-05-4 (519)
           H4L
Benzene-1,2,4,5-tetracarboxylic acid; C6H2.(COOH)4
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ vlt KNO3 20°C 0.24M U K1=2.12 B2=4.86 1972NSb (68500)3655
                     B3=7.15
                     B4=10.71
*********************************
                       CAS 131-91-9 (2668)
1-Nitroso-2-naphthol, alpha-Nitroso-beta-naphthol;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp KCl 25°C 0.10M U K1=4.63 1971MSf (68562)3656
-----
Zn++ gl diox/w 30°C 75% U I K1=9.32 B2=17.02 1957CFa (68563)3657
In 50% dioxan K1=6.76, K2=5.68
-----
Zn++ gl diox/w 30°C 75% U K1=9.5 B2=17.3 1954UFa (68564)3658
******************************
C10H7N02
                       CAS 14510-06-6 (4715)
2-Formyl-8-hydroxyquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=7.25 B2=14.39 1972HUb (68605)3659
Medium: 50% v/v dioxan, 0.1 M KCl
************************
       HL
C10H7N02
                       CAS 132-53-6 (2524)
2-Nitroso-1-naphthol;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 21°C 50% U K1=5.60 B2=11.00 1970MGd (68629)3660
Medium: 50% dioxan, 0.3 M NaClO4
Zn++ sp KCl 25°C 0.10M U K1=3.91 1970SMa (68630)3661
______
Zn++ gl diox/w 30°C 50% U I K1=5.70 B2=10.92 1957CFa (68631)3662
In 75% dioxan K1=8.40, K2=7.02
______
Zn++ gl diox/w 30°C 75% U K1=8.70 B2=15.70 1954UFa (68632)3663
C10H7N02
                       CAS 2598-30-3 (3317)
5-Formyl-8-hydroxyquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=6.45 B2=12.70 1958JPa (68670)3664
```

```
Medium: 50% dioxan, 0.3 M NaCl
**********************************
           HL Quinaldic acid CAS 93-10-7 (2209)
Ouinoline-2-carboxylic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M U K1=9.88 B2=18.18 1988ZMa (68689)3665
Zn++ gl diox/w 25°C 50% U K1=5.1 B2=9.7 1955HCb (68690)3666
_____
Zn++ sp oth/un 25°C 0.0 U K1=4.17 1955LUa (68691)3667
*************************
C10H7N02
            HL
                     CAS 86-59-9 (873)
Quinoline-8-carboxylic acid;
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 30°C 50% U K1=3.85 B2=7.00 1981RRa (68743)3668
Medium: 50% v/v EtOH, 0.1 M KNO3
______
Zn++ gl diox/w 25°C 50% U K1=4.9 B2=9.0 1955HCb (68744)3669
Zn++ gl oth/un 25°C 0.0 U K1=3.05 B2=5.89 1955LUa (68745)3670
*************************
C10H7N02S
                         CAS 10958-38-5 (3922)
3-Phenyl-1,2-thiazole-5-carboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=1.66
                             1968EGb (68778)3671
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
C10H7N03
           H2L Kynurenic acid CAS 492-77-3 (1540)
4-Hydroxy-2-quinolinecarboxylic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----i
     gl diox/w 25°C 50% U K1=3.4 B2=6.50 1964BFa (68785)3672
                      K(Zn(OH)L+H)=7.0
                      K(Zn(OH)2L+H)=8.1
*************
            H3L
                Xanthurenic aci CAS 59-00-7 (1539)
4,8-Dihydroxy-2-quinolinecarboxylic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·-----
                      K1=7.7
Zn++ gl diox/w 25°C 50% U
                            B2=13.70 1964BFa (68792)3673
                      K(Zn(OH)L+H)=9.7
```

K(Zn(OH)2L+H)=11.3

********* C10H7N05S 1,2-Naphth			H2L		*****	******** CAS	97573-20-!	******** 5 (3332)	******
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K va	lues	Reference	ExptNo
Zn++	•						ZnL+H)=3.04		•
**************************************			H2L			CAS	14090-74-!		*****
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K val	lues	Reference	ExptNo
	****	******	***** H2L	******	*****	******** CAS		*******	(68805)3675 ******
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K va	lues	Reference	ExptNo
Zn++ I=0, K1=5. ******	08,	B2=8.39							(68827)3676 ******
C10H7NO5S 1-Nitroso-	2-hy	droxyna	H2L phthai	lene-5-su	lfonic		50332-97-3	3 (2660)	
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K val	lues	Reference	ExptNo
Zn++ I=0, K1=5.			25°C	0.10M U	I	K1=4.46	B2=7.99	1973MSf	(68830)3677
********* C10H7N05S 1-Nitroso-			H2L			(4	**********	******	*****
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K val	lues	Reference	ExptNo
I=0: K1=5.	05,	B2=8.56						1969MSa	(68837)3678
C10H7NO5S 2-Nitroso-			H2L			CAS	3682-32-4		
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K val	lues	Reference	ExptNo
Zn++	sp	KC1	25°C	0.10M U		K1=3.56	19	70SMa (6887	72)3679
Zn++ ******	-							66MAg (6887 ******	•

```
C10H7N05S
           H2L
                       CAS 23525-13-6 (1813)
2-Nitroso-1-hydroxynaphthalene-5-sulfonic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
- - - '
Zn++ sp KCl 25°C 0.10M U K1=3.82 1970SMa (68907)3681
______
     gl KCl
           25°C 0.10M U I K1=3.58 B2=6.29 1969MSa (68908)3682
I=0: K1=4.48, B2=7.13
***********************************
                       CAS 26276-78-8 (4763)
2-Nitroso-1-hydroxynaphthalene-6-sulfonic acid;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
           25°C 0.10M U K1=3.71 B2=6.58 1970MSh (68922)3683
     EMF KCl
*****************************
                         (4764)
C10H7N05S
2-Nitroso-1-hydroxynaphthalene-7-sulfonic acid;
 .....
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     gl oth/un 25°C 0.01M U I K1=4.25 B2=6.97 1970MSg (68927)3684
I=0.1: K1=3.76, B2=6.45
*********************************
                       CAS 31005-79-9 (1814)
2-Nitroso-1-hydroxynaphthalene-8-sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
   sp KCl
          25°C 0.10M U K1=4.05
                            1970SMa (68936)3685
______
Zn++ EMF KCl 25°C 0.10M U K1=4.04 B2=6.34 1969MSh (68937)3686
*************************
C10H7N08S2
                       CAS 26276-77-7 (4767)
           H3L
1-Hydroxy-2-nitrosonaphthalene-4,8-disulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
          25°C 0.10M U K1=3.78 B2=5.79 1970MMh (68960)3687
     EMF KCl
-----
     sp KCl 25°C 0.10M U K1=3.80 1970SMa (68961)3688
********************************
               Nitroso-R acid CAS 525-05-3 (1811)
           H3L
1-Nitroso-2-hydroxynaphthalene-3,6-disulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Zn++ gl NaClO4 10°C 0.10M U H K1=6.90 1979GBf (68990)3689
______
```

```
oth KCl 25°C 0.10M U I K1=4.5 B2=7.1 1967MAi (68991)3690
Zn++
At I=0: K1=5.7, B2=7.6
______
    gl KCl 25°C 0.10M U
                                1961MAd (68992)3691
                       K(Zn+HL=ZnL+H)=-2.42
                       K(ZnL+HL=ZnL2+H)=-4.30
**********************************
                          CAS 52664-45-6 (1627)
2-Nitroso-1-hydroxynaphthalene-4,6-disulfonic acid;
-----
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.10M U I K1=3.51 B2=5.83 1973MSf (69047)3692
      EMF KCl
I=0: K1=4.65, B2=7.25
*****************************
                          CAS 50332-99-3 (1628)
C10H7N08S2
2-Nitroso-1-hydroxynaphthalene-4,7-disulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.10M U I K1=3.63 B2=7.25 1973MSf (69057)3693
      EMF KCl
I=0: K1=4.70, B2=6.69
*****************************
C10H7N2O2F3S
                          CAS 23375-18-0 (1680)
8-(Trifluoromethanesulfonamido)quinoline;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=7.7 B2=14.0 1984NYa (69068)3694
*******************************
                1-Ph-violuric
C10H7N3O4
            H2L
                           (957)
1-Phenyl-alloxan-5-oxime,(1-Phenyl-5-isonitrosobarbituric acid);
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl alc/w 18°C 50% U T
                       K1=6.68 B2=11.91 1982SGa (69082)3695
Medium: 50% v/v EtOH/H2O, 0.1 M NaClO4
***********************
                          CAS 326-06-7 (196)
3-Benzoyl-1,1,1-trifluoroacetone; CF3.CO.CH2.CO.C6H5
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     dis NaCl 25°C 0.10M U K1=3.6 B2=6.2
                                   1984KSb (69124)3696
______
Zn++ dis NaClO4 25°C 1.0M C M K1=3.23 B2= 5.49 1977SMe (69125)3697
                       K(ZnL2(org)+A(org))=6.71
Method: distribution from 1.0 M NaClO4 into CCl4/HL/tri-octylposphine
oxide (A). K(Zn+2HL(org)=ZnL2(org)+2H)=-9.02.
_____
```

```
Zn++ gl oth/un ? 0.0 U B2=7.30 1951UFa (69126)3698
****************************
                            CAS 37026-31-6 (3933)
7-Bromo-8-hydroxy-2-methylquinoline-5-sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaClO4 25°C .005M U K1=6.61 B2=12.29 1963FFa (69189)3699
K3 < 3.5
**********************************
                 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
Zn++ gl NaNO3 37°C 0.10M U K1=5.15
                                 1997MGa (69402)3700
______
Zn++ gl alc/w 25°C 50% C K1=5.90 1997MGb (69403)3701
Zn++ cal non-aq 25°C 100% C H K1=4.7 B2= 8.40 1996KSb (69404)3702
                         B3=10.7
Medium: N,N-dimethylacetamide, 0.10 M Bu4N[BF4].
DH(K1)=-30.6 \text{ kJ mol-1}, DH(B2)=-59.9 \text{ kJ mol-1}, DH(B3)=-79.3 \text{ kJ mol-1}.
______
Zn++ cal non-aq 25°C 100% U H K1=2.03 B2=3.77 1995K0a (69405)3703
                         B3=4.9
Medium: 4-Methylpyridine, 0.1 M n-Bu4NCl04. DH(K1)=-13.5 kJ mol-1,
DH(B2)=-29, DH(B3)=-34
             -----
Zn++ gl NaNO3 37°C 0.10M U K1=5.15 1994MGc (69406)3704
Data for ternary complexes with 6-aminopenicillanic acid
______
Zn++ gl KNO3 30°C 0.10M U K1=5.26 1994RSa (69407)3705
______
Zn++ sp non-aq 25°C 100% U HM
                                  1992UNa (69408)3706
                         K(ZnA+L=ZnAL)=3.91
                         K(Zn2B+L=Zn2BL)=4.04
                         K(ZnC+L=ZnCL)=4.52
                         K(Zn2D+L=Zn2DL)=7.45
Medium: CHCl3. A,D=substituted porphyrins, B,C=substituted porphyrin dimers
-----
    gl KNO3 25°C 0.10M C M K1=5.13 B2= 9.50 1991DAc (69409)3707
Data for ternary complexes with acetohydroxamic acid
______
     gl KNO3 25°C 0.10M C M K1=5.13
                                  1990DAc (69410)3708
Zn++
                         K(ZnL+A)=4.88
                         B(ZnAL)=10.01
HL: benzohydroxamic acid
-----
Zn++ cal non-aq 25°C 100% U IHM K1=3.7 B2=6.9 1990IMa (69411)3709
```

```
In DMF, 0.16 M Et4NClO4. DH(K1)=-17.4, DH(B2)=-36.6, DH(B3)=-54.0 kJ mol-1
Also data for ternary complexes with Br-, I-, and NCS-.
______
Zn++ sp NaClO4 25°C 0.01M C H K1=5.23 1988DLb (69412)3710
DH(K1)=-27.4 kJ mol-1, DS(K1)=8 J K-1 mol-1
______
      sp non-ag 25°C 100% C I K1=4.14 1987AWa (69413)3711
Medium: DMSO, 0.06 M NaClO4. In trimethylphosphate: K1=6.27;
In dimethylacetamide: K1=4.71
_____
     cal non-aq 25°C 100% U H K1=3.95 B2=7.07 1987INa (69414)3712
                        B3=8.94
Medium: DMF, 0.4 M Et4Cl04. DH(K1)=-18.3, DH(K2)=-19.9,DH(K3)=-18.3 kJ mol-1
DS(K1)=14, DS(K2)=-7 and DS(K3)=-26 J K-1 mol-1.
______
Zn++ cal non-ag 25°C 100% C H K1=3.95 B2=7.07 1987SNb (69415)3713
                         K3=1.87
Medium: DMF, 0.4 M Et4NCl04. DH(K1)=-18.3 kJ mol-1, DH(K2)=-19.9,DH(K3)=18.3
______
Zn++ cal non-aq 25°C 100% C HM
                                  1987SNb (69416)3714
                         B(ZnClL)=9.24
                         B(ZnCl2L)=14.54
Medium: DMF, 0.4 M Et4NCl04. DH(ZnClL)=-7.9 kJ mol-1, DH(ZnCl2L)=-16.2
______
Zn++ gl diox/w 25°C 50% U M K1=6.20 B2=11.75 1984ABb (69417)3715
                         B(ZnL(PFHA))=12.81
                         B(ZnL(PTHA))=12.92
PFHA=N-phenyl-2-furylhydroxamate, PTHA=N-phenyl-2-thenohydroxamate
______
Zn++ gl KNO3 25°C 0.10M U M
                                  1984KRb (69418)3716
                       K(ZnL+NTA)=10.67
______
Zn++ gl NaClO4 35°C 0.10M U K1=5.17 B2=9.67 1983ABb (69419)3717
______
Zn++ sp NaCl04 25°C 0.20M U I K1=3.50 1983EBa (69420)3718
______
Zn++ sp non-aq 25°C 100% U K1=1.77 1981AWa (69421)3719 Medium: hexamethylphosphoric triamide
______
      gl NaClO4 35°C 0.10M U M
                                  1980ABb (69422)3720
Zn++
                        K(ZnL+A)=5.19
H2A=2-hydroxy-5-nitrobenzoic acid
______
Zn++ gl KNO3 25°C 0.20M C K1=4.95 B2=9.73 1979MBa (69423)3721
______
Zn++ gl KNO3 25°C 0.10M C M
                                  1978DAb (69424)3722
                         B(ZnLA)=8.51
                         B(ZnL2A)=12.99
                         B(ZnLA2)=12.25
```

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HA=N,N-dimethylglycine
______
Zn++ gl KNO3 25°C 0.10M U M K1=5.04 B2=9.60 1978D0a (69425)3723
                        B3=13.2
B(ZnAL)=9.61, B(ZnHAL)=13.44, K(ZnL+HA)=2.79, K(ZnL+A)=4.61. H3A=citric acid
                     gl KNO3 30°C 0.10M M M
                            1977MSd (69426)3724
Zn++
                     K(ZnL+His)=6.13
•
Zn++ cal non-aq 30°C 100% U H
                                  1976AGc (69427)3725
                        K(ZnA2+L)=0.78
                        K(ZnB2+L)=1.60
In benzene. A=dibutyldithiocarbamate; DH=-40 kJ mol-1; DS=-117 J K-1 mol-1.
B=dibenzyldithiocarbamate; DH=-53.3; DS=-145.
-----
Zn++ kin non-aq 19°C 100% U K1=3.4 1976BMa (69428)3726
Medium: DMSO, 0.2 M NaClO4
______
Zn++ gl KNO3 25°C 0.10M C
                       K1=5.04 B2=9.60 1975D0b (69429)3727
                       K3=3.6
______
Zn++ gl KNO3 25°C 0.10M C K1=5.04 B2= 9.60 1975DOc (69430)3728 B3=13.20
______
Zn++ gl oth/un 25°C 0.10M U M
                                  1975JBc (69431)3729
                        K(ZnL+A)=7.03
                        K(ZnL+B)=6.66
H2A=catechol, H2B=pyrogallol
                         1974DGa (69432)3730
Zn++ cal non-aq 30°C 100% U H
                        K(ZnA2+L)=>6
In benzene. HA=thiobenzoyl-1,1,1-trifluoroacetone; DH=-60 kJ mol-1
______
Zn++ gl oth/un 35°C 0.20M U
                                  1973JPb (69433)3731
                        K(ZnL+A)=7.82
                        K(ZnL+B)=7.89
                        K(ZnL+C)=7.76
H2A=thioglycollic acid, H2B=thiolatic acid, H2C=thiomalic acid.
------
Zn++ oth NaClO4 30°C 0.20M U M
                                 1972MJa (69434)3732
                        B(ZnLA)=7.81
                        B(ZnLB)=8.75
                        K(Zn+L+HC)=7.35
H2A=pyrocatechol, H3B=protocatechuic acid, H3C=pyrogallol.
______
Zn++
     EMF KNO3 30°C 0.10M U M
                                  1972STa (69435)3733
                        B(ZnL(en))=4.90
```

B(ZnL(pn))=5.20

Zn++ gl NaClO4 25°C 0.10M U M K1=5.30 B2=9.83 1971GSb (69436)3734

H2A=catechol ______ K3=3.96

Zn++ gl KNO3 30°C 1.0M U HM K1=5.26 B2=9.81 1965DDa (69437)3735 By calorimetry: DH(K1) = -26.1 kJ mol-1, DS = 14.6 J K-1 mol-1; DH(B2) = -49.1, DS=25.9; DH(B3)=-66.5, DS=44.3. Ternary complexes with many ligands ______ Zn++ cal NaNO3 20°C 0.10M U H 1963ANb (69438)3736 DH(K1)=-29.7 kJ mol-1, DS=0 J K-1 mol-1; DH(B2)=-52.3, DS=10;DH(B3) = -73.2, DS = 11.3Zn++ gl NaNO3 20°C 0.10M U K1=5.30 B2=9.83 1963ANg (69439)3737 K3 = 3.80Zn++ gl NaClO4 25°C 1.0M U H K1=4.89 B2=9.47 1962ABa (69440)3738 K3=4.27DH(K1)=22.2 kJ mol-1, DS=21; DH(K2)=22.2, DS=13; DH(K3)=22.2, DS=8 ______ Zn++ ISE KNO3 40°C 0.10M U T K1=4.86 B2=9.10 1962CLa (69441)3739 K3=3.56K1=5.39(10 C), 5.20(20 C), 6.16(25 C); K2=4.74(10 C), 4.50(20 C), 4.46(25 C);K3=4.01(10C), 3.74(25C). DH((K1)=-29.2 kJ mol-1,DH(K2)=-28,DH(K3)=-24.2 ______ Zn++ ISE alc/w 40°C 42% U TIH K1=4.54 B2=8.40 1962CLa (69442)3740 K3=2.91Medium:41.5% EtOH, 0.05 M KNO3.K1=5.08(10 C),4.95(20 C),4.68(32 C); K2=4.43 (10C), 4.17(20C), 3.98(32C); K3=3.28(10C), 3.05(32C). DH(K1)=-31 kJ mol-1 ______ dis KCl 25°C 0.10M U K1=5.04 B2=9.39 1962IMa (69443)3741 K3=3.57-----Zn++ gl KNO3 25°C 0.10M U K1=5.4 B2=9.8 1956YSb (69444)3742 B3=13.3 Zn++ sp oth/un 25°C 0.01M U K1=5.0 B2=12.0 1955LFb (69445)3743 B3=17.14******************************** CAS 553-26-4 (501) C10H8N2 4,4'-Bipyridyl; (C5H4N)2 -----Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ Zn++ sp non-aq ? 100% U M 1990AHb (69668)3744 K(ZnA+L)=3.26Medium: CH2Cl2. A=biphenyl capped mesoporphyrin. Data for other porphyrin Zn complexes

```
CAS 80690-06-8 (874)
C10H8N2O2
             HL
5-Aminoquinoline-8-carboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 30°C 50% U K1=5.04 B2=9.50 1981RRa (69673)3745
Medium: 50% v/v EtOH, 0.1 M KNO3
********************
C10H8N2O2
                          CAS 5603-22-5 (2753)
8-Hydroxyquinoline-2-carboxaldehyde oxime
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=8.09 B2=15.75 1967SFa (69680)3746
*************************
                       CAS 15112-10-4 (8299)
C10H8N2O2S
N-Phenyl-2-thiobarbituric acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaClO4 31°C 0.10M U T H K1=7.30 B2=13.00 1984SJa (69689)3747
Also data for 18 and 42 C. DH(K1)=-106 \text{ kJ mol}-1, DS(K1)=-209 \text{ J K}-1 \text{ mol}-1
DH(K2)=-59.1, DS(K2)=-86.0. Also data for N-tolyl- derivatives.
********************************
                        CAS 36874-89-9 (6226)
C10H8N2O5
4-Nitromaleanilic acid; HOOC.CH:CH.CO.NH.C6H4.NO2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 22°C 80% U T H K1=7.85 B2=13.35 1985SAb (69706)3748
30 C: K1= 7.70, K2=5.40; 40 C: K1= 7.50, K2=5.30
DH(K1)=-33.9 \text{ kJ mol-1}, DS=63 \text{ J K-1 mol-1}; DH(K2)=-20.3, DS=38
********************************
                          CAS 37226-33-8 (3923)
2-Methyl-7-nitro-8-hydroxyguinoline-5-sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
___________
                      K1=5.31 B2=9.63 1963FFa (69712)3749
Zn++ gl NaClO4 25°C .005M U
                       K3 < 3.5
***********************************
C10H8N4O4
                          CAS 92265-25-3 (7738)
5-(o-Hydroxyphenylazo)-barbituric acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl alc/w 37°C 40% C K1=5.22 B2= 9.47 1998AAa (69745)3750
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4.
-----
Zn++ gl alc/w 37°C 40% C M K1=5.22 B2= 9.47 1997AAb (69746)3751
```

```
B(Zn(gly)L)=10.00
                        K(Zn(gly)+L)=4.52
                        K(ZnL+gly)=4.78
                        B(Zn(ala)L)=10.06
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4. K(Zn(ala)+L)=4.70, K(ZnL+ala)=
4.84; B(Zn(leu)L)=9.88, K(Zn(leu)+L)=4.64, K(ZnL+leu)=4.66.
*******************************
                           CAS 92-44-4 (1658)
C10H802
2,3-Dihydroxynaphthalene;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     gl NaClO4 30°C 0.20M U M
Zn++
                                  1974MJa (69762)3752
                        K(ZnA+L)=5.25
H4A=EDTA
*********************************
                 DHNSA
            H3L
                            (877)
2,3-Dihydroxynaphthalene-6-sulfonic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaClO4 25°C 0.50M C K1=8.97 B2=16.50 1976LAe (69828)3753
H4L Chromotropic ac CAS 148-25-4 (1875)
1,8-Dihydroxynaphthalene-3,6-disulfonic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M U K1=10.03 1990HWa (69915)3754
______
Zn++ gl KNO3 27°C 0.10M U K1=5.85 B2=10.90 1988AIa (69916)3755
***************************
C10H9NO
                 8-OH-Quinaldine CAS 826-81-3 (998)
2-Methyl-8-hydroxyquinoline;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    sp KCl 30°C 1.0M M K1=7.60
                               1996BTa (70024)3756
______
Zn++ gl diox/w 35°C 50% U T K1=9.40
                                  1992ELa (70025)3757
Medium: 50% dioxane/H2O (I=0.1 M, electrolyte not stated).
Data for 30-45 C.
     dis non-aq 25°C 100% U
                                  1968CFc (70026)3758
                        K(ZnL+py)=1.60
                        K(ZnL+A)=1.00
                        K(ZnL+B)=1.75
                        K(ZnL+C)=0.20
Medium: chloroform. A=2-methylpyridine, B=4-methylpyridine, C=2,4,6-tri-
```

methylpyridine

```
Zn++ cal diox/w 25°C 50% U H
                                 1968GFa (70027)3759
Medium: 50% dioxan, 0.1 M NaClO4. DH(K1)=-15.9 kJ mol-1, DS=121 J K-1 mol-1
DH(B2) = -46.4, DS = 188
______
Zn++ gl diox/w 25°C 50% U K1=9.06 B2=17.90 1967SFa (70028)3760
______
Zn++ dis diox/w 25°C 50% U B2=15.68 1965CFa (70029)3761 B3=18.28
Zn++ sp alc/w ? 100% U K1=11.6 B2=23.2 1964C0a (70030)3762
Medium: EtOH
-----
Zn++ gl diox/w 20°C 50% U K1=8.66 B2=16.76 1954IRa (70031)3763
Medium: 50% dioxan, 0.3 M NaClO4
-----
Zn++ gl diox/w 40°C 50% U T H K1=9.47 1954JFa (70032)3764
K1=10.07(0.7 C),9.82(25 C); K2=9.27(0.7 C). DH(B2)=-43.0 kJ mol-1, DS=213
********************************
                         CAS 5541-67-3 (999)
C10H9N0
5-Methyl-8-hydroxyquinoline;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 20°C 50% U K1=9.46 B2=17.86 1954IRa (70061)3765
Medium: 50% dioxan, 0.3 M NaClO4
***********************************
                         CAS 5541-68-4 (1000)
C10H9N0
7-Methyl-8-hydroxyquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 20°C 50% U K1=9.31 B2=17.42 1954IRa (70074)3766 Medium: 50% dioxan, 0.3 M NaClO4
*********************************
                          CAS 3846-73-9 (3320)
C10H9N0
8-Hydroxy-4-methylquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ dis non-aq 25°C 100% U
                                  1968CFc (70086)3767
                        K(ZnL+py)=2.47
                        K(ZnL+A)=2.00
                        K(ZnL+B)=2.87
                        K(ZnL+C)=1.50
Medium: chloroform. A=2-methylpyridine, B=4-methylpyridine,
C=2,4,6-trimethylpyridine
-----
      gl diox/w 25°C 50% U H K1=9.76 B2=18.96 1968GFa (70087)3768
Medium: 50% dioxan, 0.1 M NaClO4. By calorimetry: DH(K1)=-23.4 kJ mol-1,
```

```
DS=108 J K-1 mol-1; DH(B2)=-53.5, DS=184
-----
     dis oth/un 25°C 0.10M U B2=18.1 1965CFa (70088)3769
_____
Zn++ gl diox/w 40°C 50% U T H K1=10.25 B2=19.44 1954JFa (70089)3770
K1=11.25(0.7 C), 10.67(25 C); K2=10.28(0.7 C), 9.57(25 C);
DH(B2)=-81.9 kJ mol-1, DS=109 J K-1 mol-1
C10H9N0
                        CAS 938-33-0 (3322)
8-Methoxyquinoline;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
_____
Zn++ gl oth/un 25°C 0.10M U K1=1.6 1964PCa (70105)3771
********************
                        CAS 57334-35-7 (3905)
2-Hydroxymethyl-8-hydroxyquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ sp KCl 30°C 1.0M M K1=7.81 1996BTa (70114)3772
_____
Zn++ gl diox/w 25°C 50% U K1=10 1967SFa (70115)3773
**********************************
C10H9N02
                        CAS 87-51-4 (891)
Indole-3-ethanoic acid:
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% C M K1=2.48 1985BSd (70133)3774
                      K(Zn(phen)+L)=2.72
Medium: 50% v/v dioxan/H2O, 0.1 M NaClO4
************************************
            HL
               Maleanilic acid CAS 37902-58-2 (6225)
Maleanilic acid; HOOC.CH:CH.CO.NH.C6H5
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 22°C 80% U T H K1=7.45 B2=13.65 1985SAb (70155)3775
30 C: K1= 7.30, K2=6.10; 40 C: K1= 7.15, K2=6.00
DH(K1)=-23.2 \text{ kJ mol}-1, DS=62 \text{ J K}-1 \text{ mol}-1; DH(K2)=-13.7, DS=70
********************************
                         CAS 49608-51-7 (8280)
C10H9N03S
4,5-Dihydro-2-(2-hydroxyphenyl)-4-thiazolecarboxylic acid,
Deazademethyldesferrithiocin;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=8.5 B2=14.60 1990ARa (70163)3776
```

```
C10H9N03S2
            HL
                          (7206)
6-Methyl-5-sulfo-8-mercaptoquinoline;
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp oth/un 20°C 0.10M U K1=9.2 B2=17.80 1985DAb (70173)3777
**********************************
                        CAS 29021-67-8 (3926)
C10H9N04S
2-Methyl-8-hydroxyquinoline-5-sulfonic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 25°C 0.50M U K1=7.32 B2=14.01 1967TMd (70193)3778
______
    gl NaClO4 25°C .005M U
                      K1=7.50 B2=14.64 1963FFa (70194)3779
                      K3 < 3.5
***********************************
                        CAS 27855-25-0 (4720)
C10H9N05
2-Carboxybenzoylglycine; HOOC.C6H4.CO.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    ISE NaClO4 20°C 3.0M U K1=2.90 B2=3.54 1967KAa (70206)3780
B3=3.96
*********************************
                         CAS 82-47-3 (6247)
8-Amino-1-hydroxynaphthalene-3,6-disulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl oth/un 20°C 0.0 U K1=2.45 1961PEb (70218)3781
C10H9N08
                        CAS 83785-11-9 (685)
2-Nitro-1,4-di(carboxymethoxy)benzene; 02N.C6H3.(0CH2C00H)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 30°C ? U K1=3.42 1985TZa (70228)3782
CAS 10222-10-3 (1029)
2-Methyl-8-mercaptoquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     dis NaClO4 25°C 0.10M C
                               1987YSb (70250)3783
Method: extraction from 0.10 M NaClO4 solution into CHCl3/HL.
K(Zn+2HL(org)=ZnL2(org)+2H)=3.79.
______
     gl non-aq 25°C 100% U K1=8.5 B2=14.9 1984UBa (70251)3784
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a
```

```
Zn++ EMF non-aq 25°C 100% U K1=8.5 B2=14.90 1983UBa (70252)3785
Medium: DMF, 0.1 M LiClO4
______
Zn++ cal diox/w 25°C 50% U H 1968GFa (70253)3786
Medium: 50% dioxan, 0.1 M NaClO4. DH(K1)=-33.8 kJ mol-1, DS=100 J K-1 mol-1
______
Zn++ gl diox/w 25°C 50% U K1=11.1 1966KFb (70254)3787
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
                         CAS 13982-83-7 (1030)
4-Methyl-8-mercaptoquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl non-aq 25°C 100% U K1=8.3 B2=14.5 1984UBa (70270)3788
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a
______
Zn++ EMF non-aq 25°C 100% U K1=8.3 B2=14.50 1983UBa (70271)3789
Medium: DMF, 0.1 M LiClO4
**********************************
                         CAS 15759-04-3 (1031)
C10H9NS
6-Methyl-8-mercaptoquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl non-aq 25°C 100% U K1=8.3 B2=14.5 1984UBa (70284)3790
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a
______
Zn++ EMF non-aq 25°C 100% U K1=8.3 B2=14.50 1983UBa (70285)3791
Medium: DMF, 0.1 M LiClO4
*******************************
                     CAS 15759-05-4 (1032)
C10H9NS
7-Methyl-8-mercaptoquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl non-aq 25°C 100% U K1=10.8 B2=19.1 1984UBa (70296)3792
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a
______
      EMF non-aq 25°C 100% U K1=10.8 B2=19.10 1983UBa (70297)3793
Medium: DMF, 0.1 M LiClO4
CAS 32433-56-0 (5691)
C10H9NS2
5-Thiomethyl-8-mercaptoquinoline;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ EMF non-aq 25°C 100% U K1=7.0 B2=12.70 1986UBa (70307)3794
Medium: dimethylformamide, LiClO4
```

```
***********************************
C10H9NS2
                        CAS 91330-90-0 (5693)
7-Thiomethyl-8-mercaptoquinoline;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ EMF non-aq 25°C 100% U K1=8.9 B2=15.70 1986UBa (70312)3795
Medium: dimethylformamide, LiClO4
Dipyridylamine CAS 1202-34-2 (2428)
(2,2'-Dipyridyl)amine; C5H4N.NH.C5H4N
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 25°C 0.10M C M K1=3.70 B2= 7.16 1991DAc (70327)3796
Data for ternary complexes with acetohydroxamic acid
_____
    gl NaClO4 25°C 0.10M C
                               1979FSa (70328)3797
                      B(ZnL(pyrocatecholate))=14.22
                      K(ZnL+pyrocatecholate)=10.47
                      K(Zn(pyrocatecholate)+L)=4.32
 .-----
Zn++ gl KNO3 25°C 0.10M U TIH K1=3.70 B2=7.16 1976BBe (70329)3798
Zn++ EMF KNO3 20°C 0.10M U K1=3.75 B2=6.95 1971ANa (70330)3799
C10H9N3OS
                         CAS 60321-26-8 (4671)
2-(2-Thiazolylazo)methylphenol; C3H2NS.N:N.C6H3(CH3)OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·-----
     sp diox/w 25°C 10% U T K1=7.85 1973KSd (70354)3800
Medium: 10% dioxan, 0.1 M KNO3. 15 C: K1=7.87, 35 C: K1=7.83
*********************************
                     CAS 54723-30-7 (3924)
C10H9N3OS
3-(2'-Thiazolylazo)-4-methylphenol; CH3.C6H3(OH).N:N.C3H2N2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl alc/w 25°C 50% U K1=6.1 B2=11.50 1967NPb (70372)3801
Medium: 50% MeOH, 0.1 M NaClO4
*********************************
C10H9N3O2
                        CAS 1631-97-6 (4718)
            HL
3-Methyl-4-benzeneazo-isoxazol-5-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 75% U K1=8.25 B2=13.82 1995UFa (70383)3802
******************************
                         CAS 56634-85-6 (1326)
C10H9N3O2
            HL
```

```
4-Oximino-3-methyl-1-phenyl-2-pyrazolin-5-one;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
______
     gl alc/w 20°C 50% U T K1=2.75 B2=5.42 1981SSc (70388)3803
At 30 C: K1=2.68, B2=5.33
**********************************
                        CAS 87112-37-6 (8334)
C10H90BrS
p-Bromobenzoylthioacetone;
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
______
     gl diox/w 30°C 75% U
                      K1=8.08 B2=16.08 1991CAb (70421)3804
Medium: 75% v/v dioxane/H2O, 0.10 M KCl.
**********************************
                        CAS 4023-81-8 (1182)
C10H902Br
4-Bromo-1-phenyl-1,3-butanedione; Br.C6H4.CO.CH2.CO.CH3
-----
    Mtd Medium Temp Conc Cal Flags Lg K values
-----
     gl diox/w 30°C 75% U K1=9.92 B2=17.53 1976GRa (70429)3805
****************************
C10H902Cl
                        CAS 64743-36-8 (308)
            HL
1-(4-Chlorophenyl)butane-1,3-dione; Cl.C6H4.CO.CH2.CO.CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
-----
Zn++ gl diox/w 30°C 75% U B2=18.04 1976BRd (70444)3806
C10H904P
           H2L
                        CAS 1136-89-6 (1931)
1-Naphthyl-phosphoric acid;
______
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl NaCl
           25°C 0.15M U K1=2.01
                              1989AKa (70459)3807
                     B(ZnH-1L)=-4.73
**********************************
C10H10N04P
                          (1932)
8-Quinolyl-methyl-phosphoric acid; (C9H7N)CH2PO4H
------
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaCl 25°C 0.15M U K1=1.18
Zn++
                              1989AKa (70520)3808
                      B(ZnH-1L)=-5.53
**********************************
                        CAS 26628-04-2 (3300)
C10H10N2
8-Aminoquinaldine (8-Amino-2-methylquinoline)
 -----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ gl oth/un 25°C 0.10M U K1=1.6 1964PCa (70525)3809
********************
                          CAS 70125-17-6 (3906)
C10H10N2O
2-Aminomethyl-8-hydroxyquinoline;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=12.31 B2=23.11 1967SFa (70532)3810
*************************
                          CAS 37920-81-3 (3323)
C10H10N2O
8-Hydroxy-2,4-dimethylquinazoline;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 20°C 50% U K1=7.77 B2=14.78 1954IRa (70538)3811
Medium: 50% dioxan, 0.3 M NaClO4
*********************************
C10H10N2O2
                            (6192)
Benzimidazole-2-propanoic acid; C7H5N2.CH2.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 30°C 50% U M K1=3.40 B2=6.21 1987RGa (70543)3812
                        K(ZnA+L)=4.41
                        K(ZnB+L)=3.02
                        K(Zn(bpy)+L)=3.12
Medium: 50% EtOH, 0.1 M NaClO4. H2A=oxalic acid, H2B=malonic acid
*********************************
                         CAS 4939-30-4 (1676)
C10H10N2O2S
8-(Methanesulfonamido)quinoline;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=10.1 B2=19.7 1984NYa (70547)3813
C10H10N2O3S
                          CAS 76045-30-2 (7218)
            H2I
Desferriferrithiocin,
2-(3-Hydroxypyridin-2-yl)-4-methyl-4,5-dihydrothiazole-4-carboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=9.28 B2=16.69 1990ARa (70553)3814
*****************************
C10H10N4
                         CAS 38956-80-8 (8371)
3-Phenyl-6-hydrazinopyridazine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
K1=3.79 1984AMb (70587)3815
Zn++ gl NaCl 37°C 0.15M U
                        B(ZnH-1L)=-1.56
```

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***********************************
C10H10N4O2S
               HL Sulfadiazine
                             CAS 68-35-9 (1885)
4-Amino-N-(2-pyrimidinyl)benzenesulfonamide; C4H3N2NHSO2C6H4NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl alc/w 30°C 50% C
                                      1999MBc (70601)3816
Zn++
                           B(Zn(gly)L)=9.02
                           B(ZnAL)=9.27
                           B(Zn(met)L)=9.42
                           B(ZnH-1(gly)L)=-0.04
In 50% v/v EtOH/H20, 0.10 M NaNO3. B(ZnH-2(gly)L)=-0.04; B(ZnH-1AL)=1.91,
B(ZnH-2AL)=-8.37; B(ZnH-1(met)L)=1.22, B(ZnH-2(met)L)=-6.78. A: Beta-ala
Zn++
     gl diox/w 30°C 50% U
                           K1=2.76 B2= 5.60 1993MBc (70602)3817
                           *K(ZnL)=-9.36
                           *K(ZnL2)=-7.17
                           *K(Zn(OH)L2)=-9.85
Medium: 50% v/v dioxane/H2O, 0.10 M NaNO3.
Zn++ gl alc/w 25°C 50% U M
                                      1986SKe (70603)3818
                           K(ZnA+L)=1.84
Medium: 50% v/v EtOH/H2O, 0.1 M NaCl. H3A=nitrolotrientanoic acid
*********************************
         H2L
C10H10N4O4S2
                              CAS 78441-02-8 (2880)
N-Methylindol-2,3-dione-3-thiosemicarbazone-5-sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 37°C 0.15M M K1=5.57 B2=11.36 1982STa (70622)3819
*************************
C10H100S
                              CAS 13522-48-0 (4722)
3-Mercapto-1-phenylbut-2-en-1-one; C6H5.CO.CH:CH.C(SH).CH3
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
       gl diox/w 30°C 75% U I K1=6.85 B2=13.35 1969LSa (70630)3820
Medium: 75% acetone, 0.1 M NaClO4
In 0.017 NaClO4, 74.5% dioxan: K1=8.23, K2=8.27
______
       gl diox/w 30°C 75% U
                           K1=9.48 B2=18.77 1969UTa (70631)3821
Medium: 75% v/v dioxan, 0.01 M Me4NI
*********************************
                              CAS 92897-11-5 (4723)
4-Mercapto-4-phenylbut-3-en-2-one; CH3.CO.CH:C(SH).C6H5
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 30°C 75% U K1=9.57 B2=19.02 1969UTa (70644)3822
Medium: 75% v/v dioxan, 0.01 M Me4NI
```

```
***********************************
C10H1002
                Benzoylacetone CAS 93-91-4 (197)
            HL
1-Phenylbutane-1,3-dione; C6H5.CO.CH2.CO.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl diox/w 30°C 75% U K1=10.18 1977AHb (70688)3823
-----
Zn++ dis NaClO4 25°C 1.0M C M K1=4.15 B2= 7.70 1977SMe (70689)3824
                       K(ZnL2(org)+A(org))=3.76
Method: distribution from 1.0 M NaClO4 into CCl4/HL/tri-octylposphine
oxide (A). K(Zn+2HL(org)=ZnL2(org)+2H)=-11.36.
                  Zn++ cal non-aq 30°C 100% U M
                                1973DGb (70690)3825
                       K(ZnL2+py)=2.99
Medium: benzene
-----
Zn++ gl diox/w 30°C 75% U K1=9.62 B2=17.90 1955HOa (70691)3826
*******************************
C10H10O3
                         CAS 16636-62-7 (3298)
2-Hydroxybenzoylacetone; HO.C6H4.CO.CH2.CO.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=8.51 B2=16.10 1955H0a (70796)3827
*************************
C10H1004
                          CAS 616-75-1 (4700)
Benzylmalonic acid; HOOC.CH(CH2.C6H5).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ EMF oth/un ? ? U K1=2.41 1968KKa (70817)3828
***********************************
                         CAS 5411-14-3 (2394)
1,2-Phenylenedioxodiethanoic acid; C6H4(0.CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M U K1=2.0
                                1968SMb (70840)3829
*************************************
C10H11NOS
                           (2831)
Acetothioacetanilide; CH3.CO.CH2.CS.NH.C6H5
   .....
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp diox/w 25°C 50% U
                       K1=6.40
                                1985NBa (70876)3830
Data also for 4-methoxy, 4-methyl and 4-chloro analogues
**************************************
N-Phenyl-(trans-2-buteno)hydroxamic acid; CH3.CH:CH.CO.N(C6H5).OH
```

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 35°C 50% U K1=7.79 B2=13.90 1970BTc (70921)3831
******************************
                          CAS 42607-21-6 (8331)
2-Phenylthiazolidine-4-carboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 30°C 0.10M U TIH K1=4.84 B2= 8.86 1983RKb (70925)3832
At I=0.0, K1=4.98, K2=4.13. Data for 25-50 C. DH(K1)=-28.2 kJ mol-1,
DS(K1)=17.4 \text{ J K-1 mol-1; } DH(K2)=-23.4, \ DS(K2)=7.9.
*********************************
C10H11N03
            H2L
                          CAS 34208-97-4 (4731)
N-(Salicylidene)-alanine; HO.C6H4.CH:N.CH(CH3).COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.50M U K1=8.78 B2=14.67 1971LLa (70933)3833
******************************
C10H11N03
                          CAS 34295-85-7 (4732)
            H2L
N-(Salicylidene)-beta-alanine; HO.C6H4.CH:N.CH2.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.50M U K1=7.58 B2=14.56 1971LLa (70935)3834
******************************
            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
Zn++ gl NaNO3 25°C 0.15M U
                                 1979ZNa (70951)3835
                        K(Zn+2HL)=9.90
                        K(ZnHL2+H)=7.14
                        K(ZnL2+H)=9.42
______
                       K1=6.50 B2=12.60 1975ZNa (70952)3836
    gl NaNO3 25°C 0.15M U
                       K3=5.40
**********************************
C10H11N04
                           CAS 102963-05-0 (3325)
2,2'-Carboxyanilinopropanoic acid; HOOC.C6H4.NH.CH(CH3).COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 20°C 0.10M U K1=2.85 1958ISa (70959)3837
**************************
                           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
-----
           25°C 0.1M C H
     cal KNO3
                               1991ANa (70980)3838
DH(K1)=18.0 \text{ kJ mol}-1
_____
Zn++ cal KNO3 25°C 0.10M U K1=3.27 1991Aa (70981)3839
DH(K1)=17.99 kJ mol-1, DS(K1)=121.34 J K-1 mol-1
______
Zn++ gl oth/un 25°C 0.10M U K1=3.4 B2=5.8 1959SYc (70982)3840
Zn++ gl KCl 30°C 0.10M U K1=3.7 B2=6.0 1957TBc (70983)3841
_____
Zn++ gl KCl 20°C 0.10M U K1=3.22 1955SAa (70984)3842
Salicylalanine CAS 5853-90-7 (6174)
           H2L
N-Salicylyl-2-aminopropanoic acid; HO.C6H4.CO.NH.CH(CH3)COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 50% U
                      K1=3.96 B2= 7.71 1989MSi (71014)3843
                      B(ZnH-1L)=-5.48
                      K(Zn+OH+L)=8.52
Medium: 50% v/v EtOH/H2O, 0.2 M NaNO3.
********************************
                         CAS 100844-86-8 (2108)
N-(2-Hydroxyphenyl)iminodiethanoic acid; HO.C6H4.N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     EMF oth/un ? ? U
                       K1=9.77 1968TRc (71032)3844
                      K(Zn+HL)=3.95
************************************
                         CAS 6386-78-3 (2834)
N-(4-Hydroxyphenyl)-iminodiethanoic acid; HO.C6H4.N(CH2.COOH)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                       K1=8.81 1980TAa (71052)3845
Zn++ gl KNO3 25°C 0.10M U
                      K(Zn+HL)=6.86
*********************************
C10H11N05S
N-(2-Thenoylmethyl)iminodiethanoic acid; C4H3S.CO.CH2.N(CH2.COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KNO3 25°C 0.10M U K1=7.35 B2=11.61 1965AUa (71057)3846
CAS 49612-00-2 (3301)
2-Hydrazino-4-methylquinoline;
```

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl oth/un 22°C 0.10M U K1=5.1 B2=9.2 1957FEa (71077)3847
***********************
                         CAS 723-46-6 (8374)
4-Amino-N-(5-methyl-3-isoxazolyl)-benzenesulfonamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaNO3 25°C 0.10M M M K1=2.04
                             1995SKa (71083)3848
                      B(Zn(phen)L)=2.65
********************************
C10H11O2Cl
                         CAS 77103-89-0 (6319)
5-Chloro-2-hydroxybutyrophenone; (HO)(Cl)C6H3.CO.CH2.CH2.CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl diox/w 40°C 75% U K1=7.20 B2=13.88 1974PSc (71102)3849
Medium: 75% dioxan/H2O, 0.1 M NaClO4
**********************************
                         CAS 51525-18-9 (3907)
C10H1104As
            H2L
As-Phenylarsinodiethanoic acid; C6H5.As(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 20°C 0.10M U K1=1.4 1964PIa (71124)3850
********************************
                         CAS 58942-13-5 (7014)
Phenylphosphino-P,P-diethanoic acid, Diphenylphosphinediethanoic acid;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaClO4 25°C 0.10M U K1=1.69 1979POa (71135)3851
Tolazoline
C10H12N2
                        CAS 59-97-2 (1036)
2-Benzyl-2-imidazoline; C6H5.CH2.C3H5N2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U
                      K1=2.00 B2=3.86 1983LWa (71153)3852
                      B3=5.64
                       B4=7.30
                       B5=8.85
***********************************
C10H12N2O
                        CAS 155055-22-4 (8339)
3-(Phenylimino)-2-butanone oxime;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl alc/w 30°C 50% U T K1=8.05 B2=14.73 1993HMd (71162)3853
Medium: 50% v/v MeOH/H2O, 0.1 M NaClO4. Data for 40 and 50 C.
For 2-OH deriv., K1=6.46, for 3-OH, K1=6.54, for 4-OH, K1=6.98.
*************************
CAS 70263-59-1 (8479) 2-(Phenylhydrazono)butanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 30°C 40% C TI K1=3.01 B2= 5.53 1997RRd (71173)3854
Medium: 40% v/v EtOH/H2O, 0.10 M KNO3. Also data for 50-70% v/v EtOH/H2O,
0.1 M KNO3, and for 20-50 C.
**********************************
                          CAS 93100-65-3 (6199)
C10H12N2O3S
2-(2-Pyrrolideneamino)benzene sulfonic acid; C4H7N:N.C6H4.HSO3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M U T H K1=6.27 1987RDb (71208)3855
35 C:K=6.61, 45 C:6.83. DH=41.73 kJ mol-1, DS=260 J K-1 mol-1
**********************************
C10H12N2O4
                         CAS 16598-05-3 (967)
            H2L
2-Pyridylmethyliminodiethanoic acid; C5H4N.CH2.N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaNO3 20°C 0.10M C H K1=10.65 1981ANb (71231)3856
DH(K1)=-13.4 kJ mol-1 DS=158.2 J K-1 mol-1
additional method: exchange equilibria and ion selective electrode
______
Zn++ gl KNO3 25°C 0.10M C K1=8.78 B2=15.61 1975IPa (71232)3857
______
Zn++ gl KNO3 20°C 0.10M U K1=10.87 1963IFc (71233)3858
********************************
C10H12N2O4
           H2L
                         CAS 91856-13-2 (8436)
DL-N-(4-Aminophenyl)aspartic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaCl 25°C 0.50M C K1=2.03 1984RFb (71288)3859
*******************************
N-(2-Pyridinylmethyl)-aspartic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
___________
Zn++ gl KNO3 25°C 0.10M M K1=16.89 2002YKa (71294)3860
For N-6-methyl-2-pyridinylmethyl analogue: K1=7.96.
************************
C10H12N2O4
                           (6004)
```

```
N-Benzyloxycarbonylglycyl hydroxamic acid; C6H5.CH2.O.CO.NH.CH2.CO.NHOH
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=4.7 B2=8.6 1987CSb (71298)3861
***********************************
C10H12N2O5S HL
                        (6278)
2-Benzenesulfonamidosuccinamic acid; C6H5.SO2.NH.CH(CO.NH2).CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl alc/w 25°C 50% U K1=6.02 B2=11.87 1978GMc (71311)3862
H2L Orotidine CAS 314-50-1 (6781)
C10H12N2O8
Uridine-6-carboxilic acid;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
   gl diox/w 25°C 70% M K1=1.64
                           1990BSb (71318)3863
Medium: 70% v/v DMSO/H2O, 0.1 M NaNO3
**********************************
                       CAS 16347-32-3 (2483)
C10H12N40
9-(Tetrahydro-2-pyranyl)purine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 1.00M U K1=0.5 1983ALa (71321)3864
Nebularine CAS 550-33-4 (2172)
Purine-9-beta-D-ribofuranoside;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaClO4 25°C 1.00M U K1=0.7 1981LAc (71328)3865
Inosine
C10H12N4O5
           HL
                      CAS 58-63-9 (2344)
Hypoxanthine-9-beta-D-ribofuranoside;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.10M M
                   М
                             1994SIa (71371)3866
                     K(ZnA+L)=5.7
A:1-(9-Acridine)-1,4,7,10-tetraazacyclododecane
______
Zn++ gl NaClO4 25°C 0.10M M M
                             1993SKe (71372)3867
                     K(ZnA+L)=4.2
A:1,4,7,10-Tetraazacyclododecane.
______
Zn++ gl KNO3 35°C 0.10M U M K1=2.31 1991RRa (71373)3868
                     B(ZnL(Ala))=7.23
```

B(ZnLA)=7.07 B(ZnL(norVal))=7.24 B(ZnL(norLeu))=7.45

HA=2-amino	buta	noic ac	id			B(ZnL(norLeu))=7.45
Zn++	gl	NaNO3	37°C	0.15M U		K1=2.77 1990CIa (71374)3869
Zn++	gl	KNO3	35°C	0.10M U	M	K1=2.31 1990RRb (71375)3870 B(Zn(Ala)L)=7.23 B(Zn(Phe)L)=7.83 B(Zn(Trp)L)=7.97
						K1=3.04 1983RRd (71376)3871 DS(K1)=56.1 J K-1 mol-1.
Zn++	gl	NaC104	25°C	1.0M U		K1=2.4 1981LVa (71377)3872 K(Zn+HL)=0.7 K(Zn+HL=ZnL+H)=-6.3
Zn++ ******** C10H12N406 3,9-Dihydr	****	*****	***** H2L	******* Xantho	sine	1981SHa (71378)3873 K(Zn+HL)=0.31 ************************************
Metal	 Mtd	Medium	Temp	Conc Cal	 Flag	s Lg K values Reference ExptNo
Zn++ HA=2-amino				0.10M U	М	K1=1.43 1991RRa (71446)3874 K(Zn(Ala)+L)=4.82 K(ZnA+L)=4.69 K(Zn(norVal)+L)=4.86 K(Zn(norLeu)+L)=5.14
Zn++	gl	KNO3	25°C	0.10M U	М	1990RRa (71447)3875 B(ZnHL(His))=9.14 B(ZnHL(histamine))=9.18 B(ZnH2L(catechol))=10.54 K(Zn(Gly)+H+L)=2.86
Zn++	gl	KN03	35°C	0.10M U	M	K1=1.43 1990RRb (71448)3876 B(Zn(Ala)L)=4.82 B(Zn(Phe)L)=5.31 B(Zn(Trp)L)=5.59
Zn++	gl	NaNO3	25°C	0.10M C		1989KTa (71449)3877 K(Zn+H-1L)=1.32
Zn++	gl	KNO3	35°C	0.10M C	M	1985RRh (71450)3878 K(Zn+HL)=2.21

```
K(Zn(gly)+HL)=2.8
                         K(Zn+HL+his)=9.05
                         K(Zn+HL+HA)=10.28
K(Zn+HL+B)=8.46. H2A is catechol, H2B is oxalic acid.
Zn++ gl KNO3 35°C 0.10M U
                                   1983RRb (71451)3879
                         K(Zn+HL)=2.21
                         K(Zn+2HL)=5.25
                         K(ZnGly+H2L=ZnHLGly+H)=2.8
   gl KNO3 25°C 0.10M U T H
                                   1983RRc (71452)3880
                         K(Zn+2HL)=5.21
DH=-11.7kJ mol-1. At 5 C: K=6.15; 35 C: 5.25; 45 C: 5.53
Zn++ gl KNO3 45°C 0.10M U
                                   1979RRb (71453)3881
                         K(Zn+HL+TetraMeen)=5.37
                         K(Zn+HL+Sulphosalicylate)=2.33
                   -----
Zn++ gl KNO3 45°C 0.10M U
                              1979RRb (71454)3882
                         K(Zn(bpy)+HL)=2.89
                         K(Zn(phen)+HL)=2.58
Zn++
    gl KNO3 25°C 0.10M U T
                                   1978RRa (71455)3883
                         K(Zn+HL)=2.26
Zn++ gl oth/un 20°C 0.01M U K1=2.4 1953ALa (71456)3884
C10H12N4O6
                            CAS 40281-74-1 (3910)
              HL
Purin-6-one 9-riboside N(1)-oxide (Inosine N(1)-oxide)
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp NaCl04 25°C 0.10M U K1=3.60 1965SIa (71505)3885
*********************************
C10H12N6O4
                             (6488)
N6(Threoninocarbonyl)adenine; C5H3N4.NH.CO.NH.CH(COOH).CH(OH).CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KCl 25°C 0.20M U K1=4.68 B2=9.78 1990VJa (71517)3886
                        B(ZnH-1L)=0.24
*******************************
                    CAS 1901-78-6 (4701)
C10H12O2
2-Hydroxybutyrophenone; HO.C6H4.CO.CH2.CH2.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Zn++ gl KNO3 40°C 0.10M U K1=6.0 1973SPc (71532)3887
************************************
                            CAS 1946-74-3 (202)
C10H12O2
              HL
```

3-Isopropy	/ltrop	polone;									
Metal	Mtd	Medium	Temp	Conc		Flags	_	lues	Re	eference	ExptNo
Zn++	dis	NaClO4	25°C	0.10M					L.56	1962DYa	(71555)3888
Zn++	dis	NaClO4	25°C	0.10M	I U		K1=6.18 B3=15.00		L.56	1958DYa	(71556)3889
Zn++ Medium: 50	_		25°C	50%	U		K1=5.14	B2=8.	.04	1955PHa	(71557)3890
Zn++	gl	diox/w	30°C	50%	U						(71558)3891
	Ü					E	K1=8.7 33=19.3	B2=15	5.7		(71559)3892
**************************************			***** HL	*****	***	*****		******* 499-44-			*****
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K va	lues	Re	eference	ExptNo
Zn++	dis	non-aq	25°C	100%		 М			19979	 SNa (7162	 27)3893
										•	-7 / 3033
Method: so K is for: ******	Zn(a	q)+2L(ad	զ)=Znl	from _2(org	0.10 (). [k 0 M NaN Data fo	K(Zn+2L= NO3 into or terna	ZnL2(org CHCl3. ry comp]	g))=13 Lexes	3.9 with TOF	20.
	Zn(a:	q)+2L(ac ******	q)=Znl ***** HL	from 2(org	0.10 ;). [****	k 0 M NaN Data fo	((Zn+2L= NO3 into or terna ****** CAS DOH	ZnL2(org CHCl3. ry compl ******* 1821-12	g))=13 Lexes ***** 2-1	with TOF ******** (5541)	20. ******
K is for: ************************************	Zn(ac ***** utano:	q)+2L(ad ****** ic acid	q)=Znl ***** HL ; C6H5	from 2(org ***** 5.CH2.	0.10 ;). [****	H O M NaN Data fo ****** .CH2.CO	((Zn+2L= NO3 into or terna ****** CAS DOH	ZnL2(org CHC13. ry compl ****** 1821-12	g))=13 Lexes ***** 2-1	with TOF ******** (5541)	
K is for: ******** C10H1202 4-Phenylbu Metal Zn++ In 50% did	Zn(ac ****** utano: Mtd gl	q)+2L(ac ******* ic acid Medium KNO3	q)=Znl ****** HL ; C6H5 Temp 25°C	from _2(org ***** 5.CH2. Conc 0.10M	0.10 *** CH2 Cal I C	######################################	((Zn+2L= NO3 into or terna ******* CAS DOH Lg K va K1=1.09 ((Zn(phe	ZnL2(org CHCl3. ry compl ******* 1821-12 lues n)+L)=1. % EtOH:	g))=13 Lexes ***** 2-1 Re 1985 08 K1=1	with TOF ************************************	PO. ****** ExptNo 37)3894
K is for: ******** C10H12O2 4-Phenylbu Metal Zn++	Zn(ac ***** utano: Mtd gl oxan: ****	q)+2L(ac ******* ic acid Medium KNO3 K1=2.4c *****	q)=Znl ****** HL ; C6H5 Temp 25°C 5, K(2 *****	from _2(org ***** 5.CH2. Conc 0.10M	0.10 *** CH2 Cal I C	######################################	((Zn+2L= NO3 into or terna ******* CAS DOH Lg K va K1=1.09 ((Zn(phe 5. In 50	ZnL2(org CHCl3. ry compl ******* 1821-12 lues n)+L)=1. % EtOH:	g))=13 Lexes ***** 2-1 (Re	with TOF ************************************	PO. ****** ExptNo 37)3894
K is for: ******** C10H1202 4-Phenylbu Metal Zn++ In 50% did ********** C10H1203	Zn(ac ***** utano Mtd gl oxan: *****	q)+2L(ac ******* ic acid Medium KNO3 K1=2.4c ******	7)=Znl ****** HL ; C6H5 Temp 25°C 5, K(2 ***** HL	from _2(org ***** 5.CH2. Conc 0.10M Zn(phe *****	0.10 **** CH2 Cal I C	HO M NaM Data fo ****** .CH2.CO Flags I M H L)=2.45 *****	((Zn+2L= NO3 into or terna ******* CAS DOH Lg K va K1=1.09 ((Zn(phe 5. In 50) ********	ZnL2(org CHCl3. ry compl ******* 1821-12 lues n)+L)=1. % EtOH: *******	g))=13 Lexes ***** 2-1 R6 19856 08 K1=1 *****	with TOF ************************************	PO. ****** ExptNo 37)3894 .03 ******
K is for: ********* C10H12O2 4-Phenylbu Metal Zn++ In 50% dic ********* C10H12O3 2-Phenoxyb Metal Metal	Zn(ac ****** utano: Mtd gl oxan: ***** utanc mtd gl 10-45 ****	q)+2L(ac ******* ic acid Medium KNO3 K1=2.4c ******* oic acic Medium none C	7)=Znl ***** HL ; C6H Temp 25°C 6, K(2 ***** HL d; Temp 25°C	from -2(org ***** 5.CH2 Conc 0.10M Zn(phe ***** Conc 0.15M *****	0.10 **** CH2 Cal Cal Cal Cal Cal	H	((Zn+2L= NO3 into or terna ******* CAS DOH Lg K va K1=1.09 ((Zn(phe 5. In 50 ******* CAS Lg K va K1=0.6	ZnL2(org CHCl3. ry compl ******* 1821-12 lues % EtOH: ******* 13794-1	2))=13 Lexes ***** 2-1 Re 1985E 08 K1=1 ***** L4-4 Re 1990A *****	with TOF ******** (5541) eference 3Sd (7163 .91, K=2. ******* (8123) eference AMb (7164 ********	PO. ****** ExptNo 37)3894 .03 ****** ExptNo ExptNo 15)3895

```
Zn++ gl KNO3 25°C 0.10M U K1=1.5 1974ILa (71689)3896
******************************
                          CAS 99075-17-9 (3339)
2-Mercapto-N-phenylbutyramide (2-Mercaptobutyranilide)
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=10.56 B2=19.65 1961MAe (71701)3897
*************************
                          CAS 34282-28-5 (3338)
C10H13NOS
N-(Mercaptoacetyl)-2,6-dimethylaniline; (CH3)2.C6H3.NH.CO.CH2.SH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=10.28 B2=19.58 1961MAe (71707)3898
*******************************
C10H13NO2
                            (4743)
N-Phenyl-n-butyrohydroxamic acid; CH3.CH2.CH2.CO.N(C6H5).OH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
Zn++ gl diox/w 25°C 50% U K1=7.72 B2=14.11 1972STf (71718)3899
H2L Salicyl-alanine CAS 57471-91-7 (6944)
2-(N-(2-Hydroxybenzyl))aminopropanoic acid; HO.C6H4.CH2.NH.CH(CH3)COOH
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M U
                      K1=8.75 B2=13.24 1975RIa (71734)3900
                        B(ZnHL2)=22.34
                        K(Zn+OH+L)=13.05
Data are for L-ligand. For rac-ligand, K1=8.75, B2=13.20,
B(ZnHL2)=22.43, K(Zn+OH+L)=13.05.
*********************************
C10H13N03S
                            (3340)
N-(Mercaptoacetyl)-2,5-dimethoxyaniline; HS.CH2.CO.NH.C6H3(OCH3)2
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl diox/w 30°C 75% U K1=10.04 B2=18.70 1961MAe (71750)3901
*******************************
C10H13N05S
                         CAS 93474-55-6 (8748)
N-(Phenylsulfonyl)-L-threonine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 50% C T H
                                 1987MDe (71777)3902
                        K(Zn+2HL=ZnL2+2H)=9.04
Medium: 50% v/v EtOH/H2O, 0.2 M NaNO3. Data for 35, 45 C.
Enthalpy and entropy data.
```

```
************************************
C10H13N2O11P
            H3L
                 Orotidylic acid CAS 68244-58-6 (6665)
Orotidine-5'-monophosphoric acid, uridine-5-carboxylic acid-5-monophosphoric acid;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M M K1=2.50 1991BSc (71785)3903
********************
C10H13N4O8P
            H3L IMP
                          CAS 131-99-7 (843)
Inosine-5'-monophosphoric acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ cal R4N.X 25°C 0.10M C 2002HTb (71840)3904
Medium: 0.10 M (CH3)4NBr. DH(K1)=-3.7 kJ mol-1, DS(K1)=36 J K-1 mol-1.
-----
Zn++ gl KNO3 25°C 0.10M C M K1=2.57 2001AAa (71841)3905
Also data for ternary complexes with MOPSO, TAPSO and ACES.
_____
Zn++ gl KNO3 25°C 0.10M C T HM
                                 2000RNb (71842)3906
                        K(Zn+HL)=2.97
                        K(Zn+HL+A)=6.90
                        K(Zn+HL+C)=7.00
Data for 35 and 45 C. HA is DL-ala-ala, HC is DL-ala-phe. DH(ZnHLA)=-21.1
kJ mol-1, DS(ZnHLA)=61 J K-1 mol-1; DH(ZnHLC)=-18.1, DS(ZnHLC)=73.
_____
Zn++ gl KNO3 35°C 0.10M U M
                                 1998RVb (71843)3907
                        K(Zn+H2L=ZnHL+H)=2.83
                        K(Zn+H2L+HA=ZnHLA+2H)=8.01
                        K(Zn+H2L+HC=ZnHLC+2H)=8.53
                        K(Zn+H2L+HD=ZnHLD+2H)=8.72
HA is alanine, HC is phenylalanine, HD is tryptophan.
______
   gl NaNO3 25°C 0.10M M
                                 1994SMb (71844)3908
                       K(Zn+HL)=2.54
****************************
C10H13N4O9P
            H3L
                            (3930)
Inosine-5'-monophosphoric acid N(1)-oxide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
-----
Zn++ sp NaClO4 25°C 0.10M U
                                 1965SIa (71880)3909
                       K(Zn+HL)=3.83
*******************************
             HL AZT
C10H13N5O4
                          CAS 30516-87-1 (6865)
3'-Azido-3'-deoxythimidine, azidothymidine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.10M M M
                                 1994SIa (71899)3910
```

A:1-(9-Acr	idine)-1,4	,7,10-t	etraa	zacyclod	K(ZnA+L)=7.2 odecane		
Zn++	gl NaClO				K(ZnA+L)=5.6	1993SKe	(71900)3911
	-Tetraazac				******	*****	*****
C10H13N5O4 Adenosine,	Adenine-9	L -beta-D			CAS 58-61- de;	7 (2154)	
Metal	Mtd Mediu	m Temp	Conc (Cal Flag	s Lg K values	Refer	ence ExptNo
Zn++	gl NaClO	4 20°C	0.10M	U	K1=2.51 B(ZuH-2L)=-14.0		(71927)3912
Zn++	gl NaClO	4 25°C	1.00M	U	K1=0.2	1981LAc	(71928)3913
Zn++	nmr NaNO3	27°C	0.10M	U	K1=-0.3	1981SHa	(71929)3914
	nmr non-a H3)2SO. 21	•		U	K1=0.19	1968WLa	(71930)3915
	sp oth/u 5-3 M Zn(C		var	U	K1=-0.28	1964SBb	(71931)3916
C10H13N505		****** HL	***** Guai	******	K1=1.51 ***********************************	******	******
Metal	Mtd Mediu	m Temp	Conc (Cal Flag	s Lg K values	Refer	ence ExptNo
Zn++	gl KNO3	25°C	0.10M	C T HM	K(Zn+HL)=3.13 K(ZnHL+HL)=3.36		(71989)3918
					11; DS=25.´DH(Zn d 5-sulfosalicyl 	H2L2)=-13	.9; DS=18.
Zn++	gl NaClO	4 25°C	1.0M	U	K(Zn+HL=ZnHL)=0		(71990)3919
	nmr NaNO3				K(Zn+HL)=0.80		(71991)3920
	nmr non-a H3)2SO	q 21°C	100%	U	K(Zn+HL)=0.33	1973SFa	(71992)3921
Zn++	nmr non-a				K(Zn+HL)=0.25		(71993)3922

```
Medium: (CH3)2SO
-----
Zn++ gl oth/un 20°C 0.01M U K1=4.6
                             1953ALa (71994)3923
CAS 116-92-9 (2174)
C10H13N505
Adenosine-N'-oxide;
    Mtd Medium Temp Conc Cal Flags Lg K values
                              Reference ExptNo
______
Zn++ gl none 25°C 0.0 U K1=7.50 1960PEb (72029)3924
*************************
C10H14N2
                       CAS 57404-42-9 (6274)
cis-2,3-Diamino-tetralin(1,2,3,4-tetrahydronaphthalene);
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=4.95 B2=9.69 1974YKa (72048)3925
CAS 57404-43-0 (6273)
trans-2,3-Diamino-tetralin(1,2,3,4-tetrahydronaphthalene);
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M C K1=5.39 B2=10.21 1974YKa (72052)3926
*******************************
                        CAS 7006-13-5 (4746)
N,N-Diethylpicolinamide; C5H4N.CO.N(CH2.CH3)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
               ? U K1=1.10 B2=1.85 1971KAc (72068)3927
     oth oth/un 0°C
Method: freezing point depression
*************************************
2-Amino-4-methylthiazolyl-N,N-di(propanoic acid); CH3.C3H2NS.N(CH2CH2COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
-----
Zn++ gl NaNO3 25°C 0.15M U
                     K1=3.12
                              1997NGa (72078)3928
______
Zn++ gl NaNO3 25°C 0.15M U K1=0.50 1995NGa (72079)3929
********************************
C10H14N2O6
            L alpha-Thymidine CAS 4449-43-8 (695)
Thymine-2-desoxyribofuranosyl-5-methyluracil;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
           -----
Zn++ gl NaNO3 25°C 0.10M M
                             1994SIa (72100)3930
                     K(ZnA+L)=7.2
A:1-(9-Acridine)-1,4,7,10-tetraazacyclododecane
```

```
gl NaClO4 25°C 0.10M M M
Zn++
                               1993SKe (72101)3931
                      K(ZnA+HL)=5.6
A:1,4,7,10-Tetraazacyclododecane.
*********************************
                         CAS 95175-15-8 (5705)
2,5-Diazacyclohexanon-1-2(butane-1,4-dioic)-6-ethanoic acid;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M U K1=2.52 1989VZb (72117)3932
*********************************
C10H14N4B-
                          (7239)
Bis(3,5-dimethylpyrazol-1-yl)borate; ((CH3)2C3H)2BH2-
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     dis non-aq 25°C 100% U
                                1996KSa (72126)3933
                      K(Zn+2HL=ZnL2(org)+2H)=2.53
By solvent extraction into CHCl3
*******************************
           H2L
               dAMP
C10H14N506P
                         CAS 653-63-4 (5782)
Deoxyadenosine-5'-monophosphoric acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     nmr oth/un 25°C 0.20M U M
                                1985PGa (72140)3934
                      Keff(ZnA+L)=2.95
                       Keff(ZnAL+L)=0
A=Tetrakis(4-N-methylpyridyl)porphyrin. pH=6.9
***********************
            H2L AMPS
C10H14N506PS
                         CAS 19341-57-2 (8152)
Adenosine-5'-monothiophosphoric acid, 5-Thioadenylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M M
                      K1=2.52
                             1997SSg (72143)3935
                      *K(ZnL)=-6.8
------
Zn++ gl KNO3 25°C 0.10M U K1=2.52 1995SSe (72144)3936
********************************
           H2L
               AMP-2
                         CAS 81012-86-4 (2437)
Adenosine-2'-monophosphoric acid, 2-Adenylic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl R4N.X 25°C 0.10M C T K1=2.69 1991SMa (72170)3937
IUPAC evaluation
------
Zn++ gl NaNO3 25°C 0.10M U K1=2.10
                              1989MSf (72171)3938
```

K1=2.72(0.	4 C) ****	,2.68(1 *****	2 C),: ***** H2L	2.64(2! ***** AMP	5 C). ***** -3	At ***	25 C: D ********	OH(K1)=-5. ************ AS 84-21-9	.0 kJ mo] ******	******
Metal	Mtd	Medium	Temp	Conc	Cal Fl	ags	E Lg K v	alues	Refer	rence ExptNo
Zn++ IUPAC eval	_		25°C	0.10M	C TI	R	K1=2.6	51	1991SMa	(72214)3940
Zn++	gl	NaNO3	25°C	0.10M	U		K1=1.9	8	1989MSf	(72215)3941
	_									(72216)3942 L-1, DS=34 J
Zn++	ix	NaClO4	25°C	0.10M	U		K1=2.4	8	1966DTa	(72217)3943
Zn++	gl	KNO3	25°C	0.10M	U		K1=2.6	50	1962TMa	(72218)3944
										(72219)3945
C10H14N507 Adenosine-	Р		H2L	AMP	-5		CA	S 18422-6		
Metal	Mtd	Medium	Temp	Conc (Cal Fl	ags	Lg K ν	alues	Refer	rence ExptNo
Zn++	gl	NaNO3	25°C	0.10M	M		K1=2.3 K(ZnL+H K(Zn+HL	•	2003BSa	(72349)3946
Zn++ Medium: 0.						 :Ј m	nol-1, [OS(K1)=49		(72350)3947 ol-1.
Zn++	gl	KNO3	25°C	0.10M	С		K1=2.7	'2	2001AOa	(72351)3948
Zn++ Data for t	gl erna						K1=2.7		2000ADa	(72352)3949
Zn++	gl	NaNO3	25°C	0.10M	C		K1=2.7 K(ZnL+A B(ZnLA)	1)=2.86	2000KHa	(72353)3950
Zn++ H2A=salicy					C		K(ZnL+A	1)=2.86	2000KHa	(72353)3950
H2A=salicy	lhyd gl	roxamic NaNO3	acid 25°C	 0.10M	 C	 M	K(ZnL+A B(ZnLA)	(a)=2.86 =5.65 		(72353)3950 (72354)3951

Zn++	gl	NaNO3	25°C	0.10M	М		K1=2.38	1996SSd (72355)3952
Zn++ IUPAC eval	_		25°C	0.10M	C	Т	K1=2.76	1991SMa (72356)3953
Zn++	gl	NaNO3	25°C	0.10M	U		K1=2.38	1989MSf (72357)3954
Zn++	gl	NaNO3	25°C	0.10M	C		K1=2.38	1988SMb (72358)3955
Zn++	ix	NaClO4	18°C	0.05M	U		K1=3.6	1978KOc (72359)3956
Zn++ Medium: 10		diox/w			U	M	K1=2.40 K(Zn(bpy)+L):	1967SBc (72360)3957 =2.40
								4067746 (72264)2050
	_							1967TMf (72361)3958 =-5.0 kJ mol-1, DS=34 J
Zn++	gl	NaClO4	25°C	0.10M	U		K1=2.23	1964SBa (72362)3959
Zn++ ***********************************	**** 7P		***** H2L	dGMI	**** P	****	******	1962TMa (72363)3960 ************************************
M-4-1	м+д	Modium	Tomp	Conc	 Cal	г1	La K values	Reference ExptNo
Metal	MCu	Medium	remp	Conc	сат	Fiags	Lg K values	Reference Expend
		NaNO3						1998SSc (72511)3961
Zn++ Zn++	gl gl nmr	NaNO3 oth/un	25°C 25°C	0.10M 0.20M	U U	M	K1=2.99 Keff(ZnA+L)= Keff(ZnAL+L)	1998SSc (72511)3961
Zn++ Zn++ A=Tetrakis	gl nmr	NaNO3 oth/un -methyl	25°C 25°C	0.10M 0.20M yl)por	U U phyr	 M	K1=2.99 Keff(ZnA+L)= Keff(ZnAL+L)=	1998SSc (72511)3961
Zn++ Zn++ A=Tetrakis	gl nmr s(4-N	NaNO3 oth/un -methyl *****	25°C 25°C 25°C pyridy ****	0.10M 0.20M yl)por *****	 U U phyr ****	M *in.	K1=2.99 Keff(ZnA+L)= Keff(ZnAL+L)= PH=6.9 ************************************	1998SSc (72511)3961 1985PGa (72512)3962 2.81 =0.60
Zn++ Zn++ A=Tetrakis ********* C10H14N508 Adenosine-	gl nmr s(4-N *****	NaNO3 oth/un -methyl *******	25°C 25°C 25°C pyridy ***** H2L phorio	0.10M 0.20M (1)porperserved acid	U U phyr ****	M rin. *****	K1=2.99 Keff(ZnA+L)=: Keff(ZnAL+L): pH=6.9 ************* CAS 406: de;	1998SSc (72511)3961 1985PGa (72512)3962 2.81 =0.60
Zn++ Zn++ A=Tetrakis ********* C10H14N508 Adenosine-	gl nmr s(4-N ***** BP -5'-m	NaNO3 oth/un -methyl ****** onophos	25°C 25°C pyridy ***** H2L phoric	0.10M 0.20M /l)porp***********************************	D D phyr **** N(1	M ***** .)-oxi Flags	K1=2.99 Keff(ZnA+L)= Keff(ZnAL+L): pH=6.9 ************ CAS 406: de; Lg K values K(Zn+HL)=2.20	1998SSc (72511)3961 1985PGa (72512)3962 2.81 =0.60 **********************************
Zn++ Zn++ A=Tetrakis ******** C10H14N508 Adenosine- Metal Zn++ Zn++	gl nmr s(4-N ***** BP -5'-m Mtd gl	NaNO3 oth/un -methyl ****** onophos Medium NaClO4	25°C 25°C pyridy ***** H2L phorio Temp 25°C	0.10M 0.20M (1)porp ****** c acid Conc (0.10M	U phyr **** N(1 Cal	M in. *****)-oxi Flags	K1=2.99 Keff(ZnA+L)= Keff(ZnAL+L)= FH=6.9 ***********************************	1998SSc (72511)3961 1985PGa (72512)3962 2.81 =0.60 **********************************
Zn++ Zn++ A=Tetrakis ******** C10H14N508 Adenosine- Metal Zn++ Zn++	gl nmr s(4-N ***** BP -5'-m Mtd gl	NaNO3 oth/un -methyl ******* onophos Medium NaClO4 ometry: ******	25°C 25°C pyridy ***** H2L phorio Temp 25°C K1=7 *****	0.10M 0.20M yl)por ****** c acid Conc (0.10M	 U U **** Oal U	M in. ***** .)-oxi Flags	K1=2.99 Keff(ZnA+L)= Keff(ZnAL+L)= Keff(ZnAL+L)= CAS 406 de; Lg K values K(Zn+HL)=2.20 K(ZnL+H)=6.90	1998SSc (72511)3961 1985PGa (72512)3962 2.81 =0.60 **********************************
Zn++ Zn++ A=Tetrakis ********* C10H14N508 Adenosine Metal Zn++ By spectro ************************************	gl nmr 5(4-N ***** BP -5'-m ophot *****	NaNO3 oth/un -methyl ******* onophos Medium NaClO4 ometry: ******	25°C 25°C pyridy ***** H2L phorio 25°C K1=7 ***** H3L phorio	0.10M 0.20M (1)por ****** C acid Conc (0.10M .79 ****** GMP c acid	Dhyr**** N(1 Cal U	M in. *****)-oxi Flags *****	K1=2.99 Keff(ZnA+L)= Keff(ZnAL+L)= Keff(ZnAL+L)= CAS 406 de; Lg K values K(Zn+HL)=2.20 K(ZnL+H)=6.90 ***********************************	1998SSc (72511)3961 1985PGa (72512)3962 2.81 =0.60 **********************************

```
Medium: 0.10 M (CH3)4NBr. DH(K1)=-7.1 kJ mol-1, DS(K1)=28 J K-1 mol-1.
-----
      gl KNO3 25°C 0.10M C M K1=2.65
                                  2001AAa (72563)3965
Also data for ternary complexes with MOPSO, TAPSO and ACES.
______
   gl KNO3 25°C 0.10M C T HM
Zn++
                                  2000RNb (72564)3966
                         K(Zn+HL)=3.10
                         K(Zn+HL+A)=7.10
                         K(Zn+HL+C)=7.18
Data for 35 and 45 C. HA is DL-ala-ala, HC is DL-ala-phe. DH(ZnHLA)=-19.9
kJ mol-1, DS(ZnHLA)=69 J K-1 mol-1; DH(ZnHLC)=-18.1, DS(ZnHLC)=76.
-----
Zn++ gl KNO3 35°C 0.10M U
                       Μ
                                  1998RVb (72565)3967
                         K(Zn+H2L=ZnHL+H)=2.97
                         K(Zn+H2L+HA=ZnHLA+2H)=8.16
                         K(Zn+H2L+HC=ZnHLC+2H)=8.70
                         K(Zn+H2L+HD=ZnHLD+2H)=8.88
HA is alanine, HC is phenylalanine, HD is tryptophan.
Zn++
      gl NaNO3 25°C 0.10M M
                                  1994SMb (72566)3968
                        K(Zn+HL)=2.69
______
Zn++ gl KNO3 35°C 0.10M U M K1=5.29
                                  1990RAc (72567)3969
                         K(Zn+HL+histamine)=11.21
                         K(Zn+H2L+Gly)=9.21
                         K(Zn+HL+His)=11.35
*******************************
C10H15N0
              L
                 Ephedrine CAS 299-42-3 (1836)
(1-Methylaminoethyl)benzyl alcohol; C6H5.CH(OH)CH(CH3)NHCH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 25°C 1.00M C
                                  1976RSd (72639)3970
                       K(Zn+HL)=5.65
______
      gl KCl
            25°C .058M U T
                        K1=5.13
                               B2=9.39 1961SMa (72640)3971
At 0 C: K1=5.68, B2=10.64; 45 C: K1=4.54, B2=8.70
**********************
C10H15NOS2
                             (5423)
2-(2-Pyridyl)-1,3-dithiomethyl-2-propanol; CH3S.CH2.C(OH)(C5H4N).CH2.SCH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 25°C 50% U K1=1.23
                                  1981CBa (72652)3972
********************************
C10H15N06
             H3L
                             (3915)
N-(1'-Carboxycyclopentyl)iminodiethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
```

C10H15N2O7	**************************************		K1=12.31 1966IMa (72666)3973 ************* CAS 3715-64-8 (5784)
Metal	Mtd Mediu	m Temp Conc Cal Fla	gs Lg K values Reference ExptNo
	·	n 25°C 0.20M U M	1985PGa (72678)3974 Keff(ZnA+L)=2.46 Keff(ZnAL+L)=0.60 pH=6.9
********* C10H15N2O8	***********		
Metal	Mtd Mediu	Temp Conc Cal Fla	gs Lg K values Reference ExptNo
Zn++	gl R4N.X	25°C 0.10M C	T K1=2.46 1991SMa (72688)3975 K(Zn+HL)=2.46
IUPAC eval	uation		
Zn++	gl NaNO3	25°C 0.10M C	1988MSa (72689)3976 K(Zn+HL)=2.10
C10H15N3O8	}	H3L	**************************************
Metal	Mtd Mediu	n Temp Conc Cal Fla	gs Lg K values Reference ExptNo
	· ·		K1=7.63 1974MMb (72715)3977 K(ZnL+H)=3.21
C10H15N4O1		H5L ITP	**************************************
Metal	Mtd Mediu	m Temp Conc Cal Fla	gs Lg K values Reference ExptNo
Zn++	gl NaNO3	25°C 0.10M C	2001SBc (72739)3978 K(Zn+HL)=5.32 K(ZnHL+H)=4.25 K(Zn+H2L)=3.1
Zn++	gl NaClO	4 25°C 0.10M U M	1977CSa (72740)3979 K(Zn+HL)=5.02 K(Zn(bpy)+HL)=5.04 B(Zn(bpy)(HL))=10.34
Zn++	sp NaClO	4 25°C 0.10M U M	1977CSa (72741)3980 Keff(Zn(bpy)+HL)=2.46, pH 2.5 K(Zn(bpy)L+H)=3.87

```
nmr NaClO4 25°C 0.10M U
Zn++
                                  1975SIb (72742)3981
                        K(ZnL+H)=8.31
                        K(Zn(OH)L+H)=9.4
                        K(Zn(bpy)L+H)=8.87
By spectrophotometry, K(ZnL+H)=8.2.
   -----
      gl KNO3 25°C 0.10M U T
Zn++
                                  1973TRb (72743)3982
                        K(Zn+HL)=4.57
K(35 C)=4.77, K(45 C)=4.50
**********************************
                           CAS 470701-53-2 (8551)
C10H15N5
N-(Imidazole-4-ylmethyl-5-methyl)histamine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl NaClO4 25°C 0.10M C
                         K1=8.28 B2=11.79 2002JTa (72773)3983
                        B(ZnHL)=12.75
                        B(ZnHL2)=19.6
********************************
                 Gly-Gly-His CAS 93404-95-6 (74)
             HL
Glycyl-glycyl-histidine; H2N.CH2.CO.NH.CH2.CO.NH.CH(CH2.C3H3N2).COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                         K1=3.31
                                  1977APa (72797)3984
Zn++ gl KNO3 37°C 0.15M U
                        B(ZnHL)=10.08
                        B(Zn2L2)=9.77
                        B(Zn2H-1L2)=3.31
                        B(Zn2H-2L2)=-4.49
**********************
                         CAS 7758-33-0 (716)
             HL
                 Gly-His-Gly
Glycyl-histidyl-glycine; NH2.CH2.CO.NH.CH(CH2.C3N2H3)CO.NH.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
      gl KNO3
             37°C 0.15M U
                         K1=2.90
                                  1975APb (72815)3985
                        B(ZnH-1L)=-2.55
                        K(ZnH-2L+H)=9.69
**********************
                 His-Gly-Gly CAS 32999-80-7 (6269)
C10H15N504
Histidyl-glycyl-glycine;
    ______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
-----
Zn++ gl none 21°C 0.0 M K1=4.93 B2=9.64 1974YAa (72823)3986
C10H15N5O10P2
             H3L
                 ADP
                           CAS 20398-34-9 (2181)
Adenosine-5'-diphosphoric acid;
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flag	s Lg K values	Refe	rence ExptNo
Zn++	gl	NaNO3	25°C	0.10M	 I М		K1=4.28 K(ZnL+H)=4.43 K(Zn+HL)=2.31	2003BSa	(72891)3987
Zn++	gl	KNO3	25°C	0.10M	C	M	K1=4.28 K(ZnL+A)=2.48 B(ZnLA)=6.76 K(ZnL+B)=2.20 B(ZnLB)=6.48	2001AOa	(72892)3988
K(ZnL+C)=4 HA=MOPS, F	-	•	•			•	72, B(ZnLD)=9.00 0.	•	
Zn++	gl B=MO			0.10M			K1=4.28 K(ZnL+A)=6.90 B(ZnLA)=11.18 K(ZnL+B)=3.72 B(ZnLB)=8.33 PSO and DIPSO.	2000ADa	(72893)3989
Zn++	gl	NaNO3				 М		2000KHa	(72894)3990
H2A=salicy	lhyd	roxamic	acid						
	gl					M	K1=4.18 K(ZnA+L)=4.38 B(ZnAL)=11.88	2000KHb	(72895)3991
H2A=N-(2-a						a. 			
Zn++ 	gl 	KNO3	25°C	0.10M 	U 		K1=4.27	1995SBa 	(72896)3992
Zn++	gl	R4N.X		0.10M			R K1=4.41 K(Zn+HL)=2.04	1991SMa	(72897)3993
IUPAC eval									
Zn++	nmr	oth/un	23°C	0.30M	U	М	Keff(ZnA+L)=3.5		(72898)3994
A=Tetrakis	(4-N	-methyl	pyrid	yl)por	phyr	in. 			
Zn++	gl	KN03	22°C	0.25M			K1=5.65		(72899)3995
					U	М	B(ZnL(Gly))=8.3	1983MDd 2	(72900)3996
	gl	KC1	25°C	0.10M	U		K1=4.17 B(ZnHL)=8.95	1980DMa	(72901)3997
							K1=4.20		(72902)3998

```
K(Zn+HL)=1.96
                            K(ZnOHL+H)=8.18
                            K(2ZnOHL=Zn2(OH)2L2)=13.20
                            K(Zn2(OH)2L2+2H=2ZnL)=3.16
K1=4.40(0.4 \text{ C}), 4.35(12 \text{ C}), 4.28(25 \text{ C}); K(Zn+HL)=2.15(0.4 \text{ C}), 2.11(12 \text{ C}), 2.04(25 \text{ C});
C). At 25 C:DH(K1)=-8.4 kJ mol-1,DS=54 J K-1 mol-1; DH(Zn+HL)=-7.9, DS=13
______
Zn++ gl KNO3 12°C 0.10M U T H
                                       1967TMf (72903)3999
                            K(ZnOHL+H)=8.83
                            K((ZnOHL)2+2H)=3.50
                            K(2ZnOHL=Zn2(OH)2L2)=14.16
At 25 C: DH(ZnOHL+H)=-41.4 kJ mol-1, DS=25 J K-1 mol-1; DH((ZnOHL)2+2H=2ZnL)
=-54.3, DS=-71. DH(2ZnOHL=Zn2(OH)2L2)=-21.3, DS=-8
Zn++
      gl KNO3 25°C 0.10M U
                            K1=4.28
                                       1962TMa (72904)4000
                            K(Zn+HL)=2.04
                            K(ZnL+H2O=Zn(OH)L+H)=-8.51
                            K(2ZnL+2H2O=(Zn(OH)L)2)=-13.68
       gl KCl 25°C 0.10M U K1=4.13 1958WSa (72905)4001
Zn++
                            K(Zn+HL)=2.34
C10H16N2O2
                                 (7408)
N-(2-Pyridylmethyl)iminodiethanol; C5H4N.CH2.N(CH2CH2.OH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=5.25 1986DSa (73032)4002
********************************
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
-----
       nmr NaClO4 27°C 3.00M U K1=-1.2 1982SSb (73043)4003
Medium: D2O. In DMF: K1=0.2
Zn++ gl diox/w 25°C 50% U M K1=2.45
                                       1969SMc (73044)4004
                            K(Zn(bpy)+L)=2.49
Medium: 50% dioxan, 0.1 M NaClO4. In 0.1 M NaClO4 alone: K1=0.82
*********************************
C10H16N2O4S
                              CAS 3376-83-8 (4793)
D-Biotin-DL-sulfoxide;
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U M K1=2.38
                                       1969SMc (73054)4005
                            K(Zn(bpy)+L)=2.34
Medium: 50% dioxan, 0.1 M NaClO4. Values for d-isomer, for l-isomer K1=2.37,
K(Cu(bpy)+L)=2.36
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*******************************
C10H16N2O5
                gamma-Glu-Pro CAS 53411-63-5 (8143)
            H2L
Pyrrolidine-2-carboxy-1-(2-amino-5-one-pentanoic acid, Gamma-Glutamyl-proline;
___________
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=4.87 1989ARa (73057)4006
********************
C10H16N2O5S
                          (4794)
D-Biotin sulfone;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U M K1=2.46 1969SMc (73061)4007
                      K(Zn(bpy)+L)=2.49
Medium: 50% dioxan, 0.1 M NaClO4
*******************************
                         CAS 52759-67-8 (1100)
C10H16N2O8
            H4L
                EDDS
1,2-Diaminoethane-N,N'-di-1,4-butanedioic acid; (CH2.NH.CH(COOH)CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ cal KNO3 25°C 0.5M U
                                2002LCb (73087)4008
                       DH(K1) = -18.82 \text{ kJ mol} -1
                       DH(Zn+HL)=+5.78
for 1.0 M KNO3 DH(K1)=-19.11 DH(Zn+HL)=+6.14
for 1.5 M KNO3 DH(K1)=-19.18 DH(Zn+HL)=+6.32
            Zn++ gl NaCl 25°C 0.10M C
                      K1=13.58
                                20020Ha (73088)4009
                       K(ZnL+H)=3.67
                       K(ZnHL+2H)=5.9
                       K(Zn(OH)L+H)=11.3
                       K(ZnHL+HL)=5.5
Ligand is [S,S] isomer.
_____
Zn++ gl KNO3 25°C 0.10M U
                      K1=12.77 1989VZb (73089)4010
                      K(Zn+HL)=6.68
                      K(Zn+H2L)=2.48
------
Zn++ gl KNO3 30°C 1.0M U K1=8.35 1972TSf (73090)4011
-----
Zn++ gl KNO3 20°C 0.10M U K1=13.49 1968MJa (73091)4012
By paper electrophoresis: K1=13.1
-----
     sp KNO3 20°C 0.10M U K1=12.9
                               1966MSg (73092)4013
**************************
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
```

 Zn++	vlt KNO3	25°C 0.10M C	K1=16.52	2001CKb (73398)4014
Method: cy	clic voltam	metry. Medium: pH		
		25°C 0.0 C H)=-14.98 kJ mol-1.		19900Ba (73399)4015
Zn++	vlt KCl	25°C 0.30M U	K(Zn+HL)=10.27	1988HPa (73400)4016
Zn++	ISE KCl	25°C 1.00M U I	K1=15.67 K(Zn+HL)=8.19 K(ZnL+H)=2.36	1985VGa (73401)4017
Zn++	cal KNO3	25°C 1.50M U H	K(ZnL+OH)=1.88	1985VKa (73402)4018
DH(ZnL+OH)	=-20.84 kJ	mol-1	,	
Zn++	gl NaCl	37°C 0.15M C	K1=14.61	1984DMb (73403)4019
	gl KNO3		K1=16.3 K(ZnL+H)=2.99	1982AKa (73404)4020
Zn++		20°C 0.10M C	K1=16.1	
Zn++	sol KNO3	25°C 1.00M U	K(ZnL+H)=3.0 K(ZnHL+H)=1.4	1979JPa (73406)4022
Zn++	sol KNO3	25°C 1.00M U	K(ZnL+H)=2.96 K(ZnHL+H)=1.30	1979JPb (73407)4023
Zn++	gl KCl	20°C 0.10M C	R K1=16.68 K(ZnL+H)=3.0	1978ANa (73408)4024
IUPAC eval	uation. K(Z	nL+H) Tentative	·	
		20°C 0.10M U	K1=16.66	1978NLb (73409)4025
Zn++	dis none	25°C 0.0 U romatography on a	K1=16.4 chelating resin	1977MFb (73410)4026
		25°C 3.00M C	K1=14.87 B(ZnHL)=17.97	1976CWa (73411)4027
		25°C 0.01M C I		1976MCa (73412)4028
	gl oth/un .4 kJ mol-1		K1=16.3	1974DTa (73413)4029

Zn++	oth	NaClO4	25°C	1.0M	U		K(CoLCl+Zn)=0.6	1973HHb	(73414)4030
Zn++		KN03	25°C	0.10M	U		K1=16.5		•
		oth/un	25°C	1.50M	U	М	K1=16.50 B(ZnL(py))=16.72 B(ZnL(NH3))=17.3 B(ZnL(thiourea)) B(ZnL(SCN))=16.5	2 38)=17.05	
B(ZnL(S203))=17	7.30							
Zn++	gl	KN03	25°C	0.10M	U		K1=16.24 K(ZnL+H)=3.0 K(Zn+HL)=9.0	1969BNa	(73417)4033
	traso	onic. K	1=15.5	52(32			K1=14.80 .)=105 (?) kJ mo]		33? J K-1m-1
	oth	KNO3	20°C				K1=17.5	1965JMb	(73419)4035
Zn++	nmr	oth/un	36°C	?			K(Zn(OH)+L)=2.2 K(ZnL+OH)=2.0		(73420)4036
Zn++	vlt	KNO3	25°C	0.20M	U		K1=15.94	19650Ga	(73421)4037
Zn++ DH(K1)=-23							L	1965WHa	(73422)4038
Zn++							K1=16.26 K(Zn+HL)=9.0		, ,
Zn++ DH(K1)=-20	cal	KNO3	20°C	0.10M	U	H mol-1	L	1963ANf	(73424)4040
Zn++	EMF		22°C			T	K1=16.69	1957SAb	(73425)4041
DH(K1)=-23	.5 k	oth/un J mol-1	20°C , DS=2	0.17M 236 J	U	H mol-1	.; DH(ZnL+OH)=13	1956CSb	(73426)4042
Zn++ Method: H	EMF	oth/un	25°C	0.0		Н	1	1956MAa	(73427)4043
Zn++	EMF	NaClO4	25°C	0.10M	U		K1=16.4	1956SRb	
						Н	DS=230 J K-1 mc	1954CHa	

```
gl KCl 20°C 0.10M U K1=16.26 1954SGa (73430)4046
Zn++
By polarography, 0.1 M KNO3, K1=16.50
______
   sp KNO3 30°C 0.10M U K1=15.3 1953HMa (73431)4047
**********************************
                      CAS 20206-12-1 (996)
C10H16N2O8S2 H4L
2,9-Diamino-5,6-dicarboxy-4,7-dithiadecanedioic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl NaClO4 25°C 0.10M U B2=22.23 1978MJa (74364)4048
*******************************
C10H16N2O9
                           CAS 616-90-0 (2615)
Bis-(2-aminoethylether)-N,N'di(1,3-propanedioic acid); ((HOOC)2CH.NH.CH2.CH2)20
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ EMF KNO3 25°C 0.10M U K1=10.53 1979KBe (74370)4049
****************************
C10H16N2O11P2
                         CAS 491-97-4 (7674)
Thymidine-5'-diphosphoric acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M M
                                 1999SSa (74383)4050
                       K(Zn+HL)=4.15
*******************************
            H4L ATP
C10H16N5O13P3
                        CAS 56-65-5 (403)
Adenosine-5'-triphosphoric acid;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C M K1=4.85
                                 2001AOa (74540)4051
                        K(ZnL+A)=2.09
                        B(ZnLA)=6.94
                        K(ZnL+B)=2.30
                        B(ZnLB)=7.15
K(ZnL+C)=3.30, B(ZnLC)=8.15, K(ZnL+D)=3.77, B(ZnLD)=8.62, K(ZnL+E)=2.86,
B(ZnLE)=7.71. HA=PIPES, HB=MOPS, HC=POPSO, HD=HEPPSO and HE=AMPSO.
-----
Zn++ gl KNO3 25°C 0.10M C
                      M K1=4.85
                                 2000ADa (74541)4052
                        K(ZnL+A)=3.49
                        B(ZnLA)=8.34
                        K(ZnL+B)=3.73
                        B(ZnLB)=8.58
K(ZnL+C)=3.20, B(ZnLC)=8.05, K(ZnL+D)=3.40, B(ZnLD)=8.25.
HA=ACES, HB=MOPSO, HC=CHES, HD=TAPSO. Also data for DIPSO.
-----
      gl NaNO3 25°C 0.10M C M K1=4.90
                                2000KHa (74542)4053
Zn++
```

```
K(ZnL+A)=6.19
                          B(ZnLA)=11.09
H2A=salicylhydroxamic acid.
Zn++ gl NaNO3 25°C 0.10M C M K1=4.90
                                     2000KHb (74543)4054
                          K(ZnA+L)=5.26
                          B(ZnAL)=12.67
H2A=N-(2-acetamido)iminodiacetic acid.
______
       gl R4N.X 25°C 0.10M C TIH R K1=5.16
                                    1991SMa (74544)4055
                          K(Zn+HL)=2.69
IUPAC evaluation. DH(K1)=16.3 kJ mol-1. 37 C,I=0.15 M:K1=4.83,K(ZnL+HL)=2.61
______
Zn++ gl NaNO3 25°C 0.10M C
                        K1=5.16 1987STb (74545)4056
                          K(Zn+HL)=2.86
                         K(ZnL+H)=4.17
-----
    gl NaClO4 25°C 0.10M U I M K1=5.81 B2=8.27 1986CCc (74546)4057
                          B(ZnHL)=10.25
                          B(ZnH2L)=13.86
                          B(Zn2L)=8.26
                          B(Zn2HL)=11.98
Ternary complexes with 2,2'-dipyridylamine. In 0.1 M KNO3, K1=5.44, B2=7.52,
B(ZnHL)=9.75, B(ZnH2L)=13.09, B(Zn2L)=7.22, B(Zn2H-1L)=1.28.
______
Zn++ ix oth/un 25°C 0.06M C
                                     1985JEa (74547)4058
                          K1eff=2.94
Medium: 0.06 M N-tris(hydroxymethyl)methyl-2-aminoethane sulfonic acid
buffer, pH 7.45. In 0.06 M imidazole/HCl buffer, pH 7.45, K1eff=2.82.
______
      nmr R4N.X 22°C 0.10M U
Zn++
                                     1985PHb (74548)4059
                         K(Zn+H3L)+2.78
______
    gl KCl 25°C 0.10M U M K1=4.81
                                     1984DMc (74549)4060
______
Zn++ gl KNO3 22°C 0.25M U K1=5.65 1984GKa (74550)4061
______
Zn++ gl KCl 25°C 0.20M C M
                                     1984KDb (74551)4062
                          B(ZnL(DOPA))=14.35
                          B(ZnHL(DOPA)=23.0
                          B(ZnHL(Dopamine))=23.6
                          B(ZnHL(Adrenaline))=23.2
B(ZnHL(Noradrenaline))=23.4, H3DOPA=3,4-dihydroxyphenylalanine
```

Zn++ gl KNO3 25°C 0.10M C HM K1=5.23 B2=7.12 1983ACb (74552)4063 B(ZnHL)=9.22 B(Zn2L)=7.08 B(ZnL(Ala))=9.18 B(ZnL(Trp))=9.90 DH(K1)=16.3; DH(B2)=5.0; DH(ZnHL)=3.8; DH(Zn2L)=28.8 kJ mol-1.

DH(ZnL(Ala	1))=1	6.7; DH	(ZnL(Trp))=	-24.	7 kJ	mol-1
Zn++	gl	KCl	25°C	0.10M	U		1983MDd (74553)4064 B(ZnL(Gly))=8.89
Zn++	gl	KCl	25°C	0.10M	U		K1=4.92 1980DMa (74554)4065 B(ZnHL)=9.66
Zn++	gl	KNO3	35°C	0.10M	С	M	K1=5.25 1979MTb (74555)4066 K(Zn+HL)=2.68
Zn++	ix	NaClO4	18°C	0.05M	U		K1=7.3 1978KOc (74556)4067
Zn++ H3D0PA=3,4						M	K1=4.08 1978RMc (74557)4068 K(ZnL+DOPA)=7.30
Zn++	sp	NaClO4	25°C	0.10M	U 	M 	1977CSa (74558)4069 K(Zn(bpy)+L)=5.31
Zn++	gl	NaClO4	25°C	0.10M	U	М	K1=5.21 1977CSa (74559)4070 K(Zn(bpy)+L)=5.26
Zn++	gl	NaClO4	25°C	0.10M	C	M	1977SIc (74560)4071 B(Zn(bpy)L)=10.56 K(Zn(bpy)+L)=5.26
Zn++	gl	KNO3	25°C	1.00M	С	M	K1=3.19 1976RSd (74561)4072 K(ZnL+HA)=4.90 K(ZnL+B)=4.70
A=norephed	Irine	, B=amp	hetam	ine			,
Zn++	kin	NaClO4	50°C	0.10M	U		1976SAb (74562)4073 B(Zn2L)=3.0
Zn++	gl	NaClO4	25°C	0.10M			1976SNa (74563)4074 K(ZnL+Ala)=3.71 K(Zn(Ala)+L)=4.41
Zn++					U		1975SIb (74564)4075 K(Zn(OH)L+H)=8.87
							K1=5.21 1967SBc (74565)4076 K(Zn(bpy)+L)=5.26
			30°C	0.10M	U		K1=5.52 1966PSa (74566)4077 K(Zn+HL)=2.91
Medium: Me	 						
Zn++	gl	KN03	40°C	0.10M	UT	Н	K1=4.71 1966TMb (74567)4078

```
K(Zn+HL)=2.58
```

```
K1=5.00(0.4 \text{ C}), 4.88(12 \text{ C}), 4.85(25 \text{ C}); K=2.81(0.4 \text{ C}), 2.73(12 \text{ C}), 2.67(25 \text{ C}).
At 25 C:DH(K1)=-11.3 kJ mol-1, DS=54.J K-1 mol-1; DH(Zn+HL)=-10.0, DS=17
        gl KCl
                 20°C 0.10M U
                                K1=4.75
                                        B2=6.16 1962HBa (74568)4079
Zn++
                                K(Zn+HL)=2.78
                               K(Zn+H2L)=2.09
                               K1=4.85 1962TMb (74569)4080
Zn++ gl KNO3 25°C 0.10M U
                               K(Zn+HL)=2.67
                               K1=4.80 1961BRb (74570)4081
       gl KCl
                22°C 0.10M U
                               K(Zn(OH)L+H)=8.5
        gl KCl
                 25°C 0.10M U
                               K1=4.76
                                            1958WSa (74571)4082
7n++
                               K(Zn+HL)=2.75
**********************************
C10H16N5O14P3
                H5L
                                   CAS 86-01-1 (404)
Guanosine-5'-triphosphoric acid;
       Mtd Medium Temp Conc Cal Flags Lg K values
-----
Zn++ gl NaNO3 25°C 0.10M C
                                            2001SBc (74861)4083
                               K(Zn+HL)=5.52
                                K(ZnHL+H)=4.45
                                K(Zn+H2L)=3.45
      gl NaClO4 25°C 0.10M C
                                            1977SIc (74862)4084
Zn++
                                K(Zn+HL)=4.96
                                K(Zn(bpy)+HL)=5.03
                                B(Zn(HL)(bpy))=10.33
      nmr NaClO4 25°C 0.10M U
                                            1975SIb (74863)4085
                                K(ZnL+H)=8.39
                                K(Zn(OH)L+H)=9.48
                                K(Zn(bpy)L+H)=9.20
By spectrophotometry, K(ZnL+H)=8.3.
Zn++
        gl KNO3
                 25°C 0.10M U T
                                            1973TRb (74864)4086
                               K(Zn+HL)=5.72
K1(35 C)=5.76, K1(45 C)=5.64
***********************
                                   CAS 53596-58-0 (3898)
C10H16N6
N,N'-Bis(4'-(5')-imidazolylmethyl)-1,2-diaminoethane;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
        gl KCl 25°C 0.10M U K1=10.39
                                            1968GRa (74894)4087
************************************
C10H16N6OS
                                   CAS 54237-72-8 (5996)
```

Cimetidine	e sulfoxide	;		
Metal	Mtd Mediu	m Temp Conc Cal F	lags Lg K values	Reference ExptNo
			B(ZnH-1L)=-5.4	
C10H16N6S			ne CAS 51481	61-9 (5716)
Metal	Mtd Mediu	m Temp Conc Cal F	lags Lg K values	Reference ExptNo
	*******	******		1984ABg (74911)4089 ************************************
		•	•	Reference ExptNo
Zn++ By glass e	sp NaClO	4 28°C 0.20M U K1=3.0	K1=3.06	1970RJa (74928)4090
C10H1608P2 1,2-Diphos	<u>2</u> sphinoethan	H4L e-P,P,P'P'-tetrae .P(CH2.COOH)2	(6907) thanoic acid;	
Metal	Mtd Mediu	m Temp Conc Cal F		Reference ExptNo
Zn++	gl NaClO	4 25°C 0.10M C	K1=3.69 B(ZnHL)=8.54 B(ZnH2L)=12.65	1992PPb (74935)4091
Additional	L method: Z	n(Hg) electrode	, ,	
			K1=3.69 B(ZnHL)=8.54 B(ZnH2L)=12.65	1982PPc (74936)4092
C10H17NO4		H2L		
Metal	Mtd Mediu	m Temp Conc Cal F	lags Lg K values	Reference ExptNo
				42.72.4067511. (74066) 4007
Zn++	gl NaClO	4 25°C 0.50M U	K1=/.42 B2=	12./3 196/FMD (/4966)4093
Zn++ ***********************************	gl KNO3 ******	20°C 0.10M U ******** H2L	K1=7.60 *******	12.73 1967FMb (74966)4093 1964PIa (74967)4094 ***********************************

```
gl KCl 20°C 0.10M U K1=9.19
                                    1955ASb (74982)4095
*************************
C10H17N05
             H2L
                              (3917)
N-(Tetrahydropyran-2-ylmethyl)iminodiethanoic acid;
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 20°C 0.10M U
                          K1=9.06 B2=13.58 1963IFa (74994)4096
                         K(Zn+HL)=2.75
*****************************
C10H17N08S
2-(5-Carboxy-1,2,3,4-tetrahydroxypentyl)4-carboxythiazolidine,
Galactocarboxythiazolidine;
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl NaClO4 25°C 0.10M C
                          K1=4.08 B2=5.83 1992GNa (75010)4097
                         B(ZnHL)=7.32
                         B(ZnH-1L)=-3.75
                         B(ZnH-2L)=-12.51
                         B(ZnH-1L2)=-1.56
B(ZnH-2L2)=-10.75
**********************************
C10H17N2O14P3
             H3L
                  TTP
                            CAS 365-08-2 (402)
Thymidine-5'-triphosphoric acid;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                        R K1=5.1
      gl NaCl 25°C 0.10M C
                                   1991SMa (75039)4098
                         K(Zn+HL)=5.1
IUPAC evaluation
______
Zn++ gl NaNO3 25°C 0.10M C
                                    1987STb (75040)4099
                         K(Zn+HL)=5.03
______
     gl NaClO4 25°C 0.10M C
Zn++
                        М
                                    1977SIc (75041)4100
                         K(Zn+HL)=4.89
                         K(Zn(bpy)+HL)=5.18
                         B(Zn(bpy)(HL))=10.48
     nmr NaClO4 25°C 0.10M U
                                    1975SIb (75042)4101
                         K(ZnL+H)=8.35
                         K(Zn(OH)L+H)=9.2
                         K(Zn(bpy)L+H)=9.06
By spectrophotometry, K(ZnL+H)=8.7.
***********************************
             H3L Glutathione
C10H17N306S
                            CAS 70-18-8 (333)
Glutamyl-cysteinyl-glycine;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ vlt oth/un 20°C 0.01M C K1=4.78 B2= 8.66 2001DAa (75091)4102
Medium: 0.01 M acetate buffer. Method: differential pulse polarography.
Zn++ gl NaClO4 25°C 0.10M U TIH K1=7.002 2001SGd (75092)4103
Data for 0.05-0.2 M NaClO4 and 15-45 C. DH(K1)=-35.7 kJ mol-1, DS(K1)=-220
J K-1 mol-1. At I=0, K1=7.400. Also data for MeOH/H20, EtOH/H20, DMF/H20.
______
Zn++ gl KNO3 30°C 0.10M U T M
                                   1995SSc (75093)4104
                         K(ZnA+L)=5.89
                         K(ZnB+L)=6.89
                         K(ZnC+L)=6.00
                         K(ZnD+L)=7.50
Also data for 40 and 50 C. HA is anthranilic acid, H2B is ascorbic acid,
HC is nicotinic acid, HD is sulfanilic acid.
______
                         K1 = 8.57
    gl NaClO4 25°C 3.00M C
                                B2=13.59 1976CWa (75094)4105
                         B(ZnHL)=14.76
                         B(ZnHL2)=23.27
                         B(ZnH2L2)=30.62
                         B(ZnH-1L)=-0.07
B(ZnH-1L2)=3.63
______
Zn++ gl NaClO4 37°C 0.15M U M K1=7.98 B2=12.48 1976TWa (75095)4106
                         B(ZnHL)=14.11
                         B(ZnHL2)=21.36
                         B(Zn(HL)2)=28.08
                         B(ZnH-1L)=-0.71, B(ZnH-1L2)=3.1
-----
Zn++ gl KNO3 25°C 0.16M U K1=5.1 1959MEa (75096)4107
______
Zn++ gl KNO3 25°C 0.15M U K1=8.30 1955LMa (75097)4108
C10H17N6O12P3 H4L
                           CAS 4209-30-7 (4795)
Adenyl-5'-yl-imidodiphosphoric acid; adenosine-0.PO(OH).O.PO(OH).NH.PO(OH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                         K1=5.87
Zn++ gl R4N.X 20°C 0.10M M T H
                                  1976PSe (75165)4109
                         K(Zn+HL)=3.10
Medium: 0.1 M Me4NClO4. At 0 C: K1=6.22, K(Zn+HL)=3.18. DH(K1)=-26 kJ mol-1,
DS=7 J K-1 mol-1; DH(Zn+HL)=-6, DS=11
CAS 533-48-2 (411)
C10H18N2O3
D/L-Desthiobiotin, 5-Methyl-2-oxo-4-imidazoline-caproic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U M
                                   1969SMc (75178)4110
```

K(Zn(bpy)+L)=2.48

******		-		laClO4 ********	******	******
C10H18N2O4 1,5-Diazac		octane-N	H2L N,N'-0	diethanoic acid		-60-6 (914)
Metal	Mtd	Medium	Temp	Conc Cal Flags	Lg K values	Reference ExptNo
Zn++	gl	NaNO3	25°C	0.10M U	K1=11.07	1990HNa (75196)4111
********* C10H18N2O4	****	******	***** H2L		**************************************	1975BIb (75197)4112 ***********************************
Metal	Mtd	Medium	Temp	Conc Cal Flags	Lg K values	Reference ExptNo
********* C10H18N2O4	**** S -dia:	******* zacyclor	***** H2L		************* (6638)	1989ARa (75206)4113 *******
Metal	Mtd	Medium	Temp	Conc Cal Flags	Lg K values	Reference ExptNo
********* C10H18N2O5	****					1993WLa (75211)4114 *******
1-0xa-4,/-	diaza	acyclon		N,N'-diethanoi	` '	
			onane -		c acid; ` 	Reference ExptNo
Metal Zn++ **********************************	Mtd gl ****	Medium KNO3 *****	Temp 25°C *****	Conc Cal Flags	c acid; Lg K values K1=12.53	1990CCa (75225)4115 *******
Metal Zn++ **********************************	Mtd gl ****	Medium KNO3 ******	Temp 25°C ***** H2L minodi	Conc Cal Flags 0.10M U ***********************************	C acid; Lg K values K1=12.53 ******** (6634) (C2H5)2N.CO.CH2	1990CCa (75225)4115 *******
Metal 	Mtd gl **** lace Mtd gl ****	Medium KNO3 ****** tamidoir Medium NaClO4 ******	Temp 25°C ***** H2L minodi Temp 25°C *****	Conc Cal Flags 0.10M U ******** Lethanoic acid; Conc Cal Flags 0.50M U **********************************	C acid; Lg K values K1=12.53 ********* (6634) (C2H5)2N.CO.CH2 Lg K values K1=8.11 B2=11 B(ZnH-1L)=-1.67 ***********************************	1990CCa (75225)4115 ********** 2.N(CH2.COOH)2 Reference ExptNo 1.20 1992GLa (75245)4116 **********************************
Metal 	Mtd gl **** lace Mtd gl ****	Medium KNO3 ****** tamidoir Medium NaClO4 *******	Temp 25°C ***** H2L minodi Temp 25°C ***** H3L noetha	Conc Cal Flags 0.10M U ******** Lethanoic acid; Conc Cal Flags 0.50M U ******** HEDTA ane-N,N',N'-trie	C acid; Lg K values K1=12.53 ********* (6634) (C2H5)2N.CO.CH2 Lg K values K1=8.11 B2=11 3(ZnH-1L)=-1.67 ***********************************	1990CCa (75225)4115 ********** 2.N(CH2.COOH)2 Reference ExptNo 1.20 1992GLa (75245)4116 **********************************
Metal 	Mtd gl **** lace Mtd gl **** ethy Mtd	Medium KNO3 ****** tamidoir Medium NaClO4 ******* l)diamir Medium	Temp 25°C ***** H2L minodi Temp 25°C ***** H3L noetha Temp	Conc Cal Flags 0.10M U ********* Lethanoic acid; Conc Cal Flags 0.50M U ********* HEDTA ane-N,N',N'-trie	C acid; Lg K values K1=12.53 ************ (6634) (C2H5)2N.CO.CH2 Lg K values K1=8.11 B2=11 B(ZnH-1L)=-1.67 **************** CAS 150-39-ethanoic acid; Lg K values	1990CCa (75225)4115 *********** 2.N(CH2.COOH)2 Reference ExptNo 1.20 1992GLa (75245)4116 **********************************

```
EMF KNO3 25°C 0.10M U
                        K1=14.5
                                 1960HRa (75301)4119
-----
    gl KCl
                       K1=14.5
            30°C 0.10M U
                                 1955CMa (75302)4120
****************************
                            (4504)
Hexanoic acid bis(3-hydroxycarbamoyl-methyl)amide; HONHCOCH2NHCO(CH2)4CONHCH2CONHOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
                        K1=7.73
      gl KCl
            25°C 0.20M C
                                1999FEa (75564)4121
                        B(Zn2L3)=22.01
                        B(ZnHL)=13.98
*******************************
C10H18N4O6S2
            H2L
                          CAS 7729-20-6 (6021)
Cysteinylglycine disulfide; (-S.CH2.CH(NH2)CO.NH.CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                      K1=3.56
Zn++
      gl KCl
            25°C 0.20M C
                                 1988VSb (75574)4122
                        B(ZnHL)=9.61
C10H18N408
                           CAS 35048-92-5 (4751)
Ethylenedinitrilo-N,N'-diacetohydroxamic-N,N'-diethanoic acid;
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 25°C 0.10M U
Zn++
                                 1971MMe (75580)4123
                        K(Zn+H2L)=9.60
                        K(ZnL+H)=7.47
                        K(ZnHL+H)=6.35
*********************************
C10H1802
                           CAS 73910-38-6 (4707)
Isobutyryl pivaloyl methane; (CH3)2.CH.CO.CH2.CO.C(CH3)3
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 30°C 75% U K1=10.08 B2=19.35 1972UDa (75595)4124
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
**********************************
                           CAS 32775-08-9 (240)
C10H1808
            H2L
1,12-Dicarboxy-2,5,8,11-tetraoxadodecane; (HOOC.CH2.O.CH2.CH2.O.CH2)2
     ______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.10M U K1=2.18 1975MTc (75614)4125
      gl KNO3
*******************************
C10H19N04
                            (3328)
N-(3,3-Dimethylbutyl)iminodiethanoic acid; (CH3)3C.CH2.CH2.N(CH2.COOH)2
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
           20°C 0.10M U K1=7.92 B2=14.15 1955SAa (75633)4126
Zn++ gl KCl
C10H19N3O4
                          (8095)
1,4,7-Triazacyclononane-1,4-diethanoic acid;
______
                                Reference ExptNo
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ gl KCl 25°C 1.0M U K1=17.3 2000LKc (75652)4127
*************************
                Leu-Gly-Gly CAS 1187-50-4 (1230)
C10H19N3O4
            HL
Leucyl-glycyl-glycine; H2N.CH(CH2.CH(CH3)2).CO.NH.CH2.CO.NH.CH2.COOH
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl oth/un 25°C 0.01M U K1=2.50 B2=5.39 1959DLb (75681)4128
-----
Zn++ gl oth/un 25°C 0.01M U K1=1.8 1954PEa (75682)4129
C10H19N3O5
                        CAS 6366-86-5 (8573)
N-6-L-alpha-Aspartyl-L-lysine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl
           25°C 0.20M C
                               2002KVa (75703)4130
                      B(ZnHL)=13.85
                      B(Zn2L2)=15.30
                      B(ZnH-1L)=-2.59
**********************************
                2,3-DIHA
                        CAS 709640-93-7 (9156)
            H2L
N-Hydroxy-N'-[4-(hydroxymethylamino)-4-oxobutyl]-N-methyl-butanediamide;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++
     gl KNO3 25°C 0.20M C
                      K1=7.71
                               2004FBa (75707)4131
                      B(ZnHL)=13.95
                      B(Zn2L3)=21.7
*********************************
C10H20N2
                        CAS 42121-74-4 (6275)
2(e),3(e)-Diamino-trans-decaline(decahydronaphthalene);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 25°C 0.10M C K1=6.57 B2=12.30 1974YKa (75724)4132
**************************
           HL NIBL
N-(Isobutyroyl)-lysine; (CH3)2CH.CO.NH.(CH2)4.CH(NH2)COOH
-----
Metal
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
Zn++ gl NaClO4 25°C 0.10M C K1=4.89 B2=8.29 1987LMa (75747)4133
   cal NaClO4 25°C 0.10M C H
                                   1987LMc (75748)4134
DH(K1) = -11.29 \text{ kJ mol} -1, DS(K1) = 56.3 \text{ J K} -1 \text{ mol} -1.
DH(K2)=-9.61, DS(K2)=33.2.
**********************************
             H2L
                 EDBA
                            CAS 312538-62-8 (8368)
C10H20N2O4
2,2'-(1,2-Ethandiyldiimino)-bis(butanoic acid);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 37°C 0.15M C
                         K1=9.626 1981CMc (75769)4135
                         B(ZnH-1L)=0.30
                         B(ZnH-2L)=-10.6
*********************************
C10H20N2O4
                            CAS 5578-84-7 (5914)
N,N-Dihydroxydecanediamide; HN(OH).CO.(CH2)8.CO.NH(OH)
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaNO3 25°C 0.10M C K1=8.80 1989EHa (75793)4136
********************
                 EDDASS
             H4L
                              (6912)
N,N'-Bis(2-mercaptoethyl)diaminoethane-N,N'-diethanoic acid;
(-CH2.N(CH2.CH2.SH)CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                         K1=22.13 1995SMb (75809)4137
Zn++ gl KCl 25°C 0.10M C
                         K(ZnL+H)=6.12
                         K(ZnHL+H)=2.65
                         K(ZnL=Zn(OH)L+H)=-11.4
******************
C10H20N2O4S2
                            CAS 20902-45-8 (5411)
Penicillamine disulfide, 3,3'-Dithiobis(2-amino-3-methylbutanoic acid);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KCl
            25°C 0.20M C
                                   1988VSb (75824)4138
                         B(ZnHL)=12.22
                         B(Zn2L2)=14.04
*******************************
C10H20N2O6
                             (7208)
1,2-Diaminoethane-N,N'-bis(3-hydroxy-2-butanoic acid)); (CH2NHCH(COOH)CH(OH)CH3)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 20°C 0.10M U K1=9.85
                                  1970DKa (75829)4139
By spectrophotometry: K1=10.02 in 0.1 M NaClO4
```

```
***********************************
                        CAS 96817-35-5 (4755)
C10H20N2O6
1,2-Diaminoethane-N,N'-bis(4-hydroxy-2-butanoic acid);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp oth/un 20°C 0.10M U K1=9.85 1972DKa (75840)4140
*************************
C10H20N4O4
                         (8572)
Glycyl-lysyl-epsilon-glycine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C K1=4.74 B2= 7.00 2002KVa (75891)4141
                     B(ZnHL)=11.42
**********************
        L 15-Crown-5 CAS 33100-27-5 (576)
1,4,7,10,13-Pentaoxacyclopentadecane; cyclo(-(0.CH2.CH2)5-)
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     con mixed 25°C 90% C K1=1.94
                              2003ISa (75927)4142
Medium: 90% v/v DMSO/H2O.
______
     con alc/w 25°C 40% C K1=1.82 2001ISa (75928)4143
Medium: 40% v/v EtOH/H20.
______
     nmr non-aq 27°C 100% C K1=3.82 2000SMg (75929)4144
Medium: acetonitrile. Method: competitive 7Li nmr technique.
-----
     vlt alc/w 25°C 100% C
                            1987CBd (75930)4145
                      K1=2.29
Medium: methanol, 0.10 M Et4NI or Bu4NCl04. Method: polarography.
*********************************
Trans-1-(bis(2-hydroxyethyl)amino)-2-hydroxycyclohexane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M C K1=2.78 1991DCa (76171)4146
****************************
                        CAS 66943-05-3 (5818)
C10H21N04
1-Aza-4,7,10,13-tetraoxacyclopentadecane;
  -----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     EMF alc/w 25°C 95% U K1=4.1 1993BDd (76177)4147
Medium: 95% v/v MeOH/H2O, 0.1 M Et4NClO4
******************************
                          (7006)
1,7-Di(2-(5-tetraazolyl)ethyl)-1,4,7-triazaheptane;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaNO3 20°C 0.10M U K1=17.52 1981ESa (76208)4148
*******************************
                        CAS 40236-04-2 (2343)
1-0xa-4,13-diaza-7,10-dithiacyclopentadecane;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     gl NaClO4 25°C 0.10M U H K1=5.09 1979ASb (76228)4149
Also DH values
-----
Zn++ gl NaCl04 25°C 0.10M U K1=4.43 B2=7.91 1977LAa (76229)4150
______
Zn++ gl NaClO4 25°C 0.10M U K1=5.09 1975ASc (76230)4151
**************************
C10H22N2OS2
                        CAS 40236-30-4 (5395)
1-0xa-4,13-dithia-7,10-diazacyclopentadecane;
 ·
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 0.10M U H K1=4.43 1979ASb (76248)4152
                     B(ZnHL)=7.91
Also DH values
**********************************
                        CAS 60350-17-6 (2471)
1,4,7-Trioxa-10,13-diazacyclopentadecane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl R4N.X 25°C 0.10M C K1=5.04
                              1983LCa (76257)4153
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
-----
Zn++ gl R4N.X 25°C 0.05M C K1=4.9
                             1997BCc (76275)4154
Medium: 0.05 M Me4NClO4
______
Zn++ gl R4N.X 25°C 0.10M C K1=5.34 1983LCa (76276)4155
-----
Zn++ gl alc/w 25°C 100% C K1=7.42 1979SAa (76277)4156
Medium: MeOH
Zn++ gl R4N.X 25°C 0.10M C K1=5.19 1977ASc (76278)4157
*******************************
                        CAS 82413-08-9 (6153)
1,4,7,10-Tetraaza-bicyclo[8.2.2]tetradecane;
```

Metal	Mtd	Medium	Temp	Conc C	Cal	Flags	Lg K value	es	Refer	rence ExptM	No
Zn++	gl	NaNO3	25°C	0.10M	U		K1=10.95	19	88HDa	(76383)41	58
Zn++ ******** C10H22N40 1,4,8,11-T	****		***** L	*****	***		K1=10.95 ************************************		*****	(76384)41 <u>!</u> **********	
Metal	 Mtd	 Medium	Temp	Conc C	al	 Flags	 Lg K value	· :s	Refe	 rence ExptN	 No
Zn++	Ū	NaClO4					3(ZnH-1L)=0	.59		(76402)416	
**************************************			H2L				*********** (187 acid;		*****	******	***
Metal	Mtd	Medium	Temp	Conc C	al	Flags	Lg K value	es	Refe	rence ExptM	No
Zn++	gl	KNO3		0.10M		H H	K1=19.13 ((Zn+H2L)=8 ((Zn+HL)=14	3.88 1.12		(76425)416	
**************************************			H2L					650-98-	4 (1	587)	***
		<i>a</i> _accc. (u, (.		1. 0112.01	•	- /	
Metal					·		Lg K value				 No
Metal Zn++	Mtd gl	Medium NaCl	Temp 25°C	Conc C	al Cal	Flags	Lg K value K1=15.65 B(ZnHL)=19.	 2s 19	Refer Refer 190JKa	rence ExptN	 62
Metal Zn++	Mtd gl ****	Medium NaCl *****	Temp 25°C *****	Conc C 0.15M	C ***	Flags	Lg K value K1=15.65	 25 	Refer Refer 190JKa	rence ExptN	 62
Metal 	Mtd gl ****	Medium NaCl ******	Temp 25°C ***** L clote1	Conc C 0.15M ******	Cal C C ****	Flags !	Lg K value K1=15.65 B(ZnHL)=19. *****	19 14 ********	Refer 990JKa *****	rence ExptN	 62 ***
Metal 	Mtd gl ***** 12-tr Mtd	Medium NaCl ******	Temp 25°C ***** L clote	Conc C 0.15M ******	Cal C ****	Flags ****** Flags	Lg K value K1=15.65 B(ZnHL)=19. ************************************	19 14 ******** 53)	Refer Refer 190JKa ************************************	rence Exptl (76428)416 ******	*** No
Metal 	Mtd gl ***** 12-ti Mtd gl gl	Medium NaCl ****** riazacyo Medium KCl KNO3	Temp 25°C ***** L clote Temp 25°C 25°C	Conc C 0.15M ****** tradeca Conc C 0.10M 	Cal C ***** Cal C C	Flags ***** Flags Flags Flags	K1=15.65 B(ZnHL)=19. ******** (645 Lg K value K1=11.52 K1=11.52 K1=8.9 B(ZnHL)=16. B(ZnHL)=16.	19 .14 .******* .53)	Refer 190JKa 190JKa 190JKa 190JKa 190JKa 190JKa 190JKa	rence ExptM ******** rence ExptM rence ExptM (76503)416 (76504)416	 62 **** 63 64
Metal 	Mtd gl **** 12-ti Mtd gl gl	Medium NaCl ******* riazacyo Medium KCl KNO3	Temp 25°C ***** Temp 25°C 25°C	Conc C .15M ****** tradeca Conc C .10M .10M	Cal C mne; Cal C C	Flags	Lg K value K1=15.65 B(ZnHL)=19. ******** (645 Lg K value K1=11.52 K1=8.9 B(ZnHL)=16. B(ZnH-2L)=- K(ZnL+2OH)= **********	19 .14 .******* .53)	Refer 190JKa 190JKa 190JKa Refer 196JLb 196JLb 191ACa	rence Expti (76428)416 ******** rence Expti (76503)416 (76504)416	 62 *** 63 64
Metal Zn++ ************************** C10H23N30 1-0xa-4,8, Metal Zn++ Zn++ Zn++ Zn++	Mtd gl gl gl 7,10	Medium NaCl ****** riazacyo Medium KCl KNO3 ******	Temp 25°C ***** Temp 25°C 25°C *****	Conc C .15M ****** tradeca Conc C 0.10M 0.10M *******	Cal	Flags ***** Flags Flags Flags Flags Flags Flags Flags	Lg K value K1=15.65 B(ZnHL)=19. ******** (645 Lg K value K1=11.52 K1=8.9 B(ZnHL)=16. B(ZnH-2L)=- K(ZnL+2OH)= **********	19 .14 .******* .53)	Reference	rence ExptM (76428)416 ******** rence ExptM (76503)416 (76504)416 ***********************************	 62 *** 63 64

```
K(ZnL+OH)=4.8
```

```
______
   gl NaCl 25°C 0.15M C I M K1=8.95
                               1996BBb (76518)4166
                      K(ZnL+OH)=4.92
                      K(ZnL+HCO3)=2.2
                      K(ZnL+CO3)=3.6
In 0.1 M NaClO4 (K1=9.03, K(ZnL+OH)=4.93).
______
Zn++ gl KNO3 25°C 0.10M C K1=8.95 1994CDa (76519)4167
-----
Zn++ gl NaNO3 25°C 0.10M C K1=8.85 1989HBa (76520)4168
***********************************
C10H23N3O2
                         CAS 572925-33-8 (9069)
Bis(2-hydroxyethyl)-1,4,7-triazacyclononane;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaNO3 25°C 0.10M C
                       K1=11.32
                               2003CPa (76527)4169
                      *K(ZnL) = -8.50
**********************************
C10H24N2OS2
                         CAS 68704-79-0 (1787)
8-0xa-2,14-diaza-5,11-dithiapentadecane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaCl04 25°C 0.10M U H K1=5.61 1979ASb (76552)4170
                      B(ZnHL)=10.81
Also DH values
Zn++ gl NaClO4 25°C 0.10M U K1=5.73 B2=10.63 1975ASb (76553)4171
*****************************
C10H24N2O2
             L Ethambutol
                        CAS 36697-71-9 (1403)
R-2,2'-(1,2-Ethandyldiimino)-bis-1-butanol;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                             1990BPb (76570)4172
Zn++ gl NaCl04 25°C 0.10M U T H K1=6.22
            ------
Zn++ gl NaCl 37°C 0.15M C M K1=5.354
                               1981CMc (76571)4173
                      B(ZnH-1L)=-3.043
                      B(ZnH-2L)=-12.28
                      B(Zn(his)L)=9.81
******************
                         CAS 140-07-8 (2669)
N,N,N',N'-Tetra(2-hydroxyethyl)diaminoethane; ((HO.CH2.CH2)2N.CH2-)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Zn++ gl oth/un 25°C 0.50M U K1=4.97 1960HDa (76583)4174
```

C10H24N2O8 4,10-Bis(p		onometh	H4L ny1)-1	L,7-dio	oxa-	-4,10-0	CAS 23030 diazacyclodode	6-63-5 (7192) cane;	
Metal	Mtd	Medium	Temp	Conc (Cal	Flags	Lg K values	Reference ExptNo	-
Zn++						 	K1=12.97 B(ZnHL)=18.80 B(ZnH2L)=23.80 B(ZnH-1L)=1.84 B(Zn2L)=16.34	,	_
Medium: 0.				*****	***	*****	******	*******	*
C10H24N4 1,4,7,11-T	etraa	zacyclo	L otetra		-		•	-36-8 (142) CH2.NH.CH2.CH2.CH2-)	_
Metal	Mtd		•			•	Lg K values	Reference ExptNo)
Zn++	gl							1991LHa (76612)4176	,
	-L=ZnB							1981GMb (76613)4177 C5H5N and CH3CN.	-
Zn++ Medium: Na	OH. D	H(K1)=-	69.0	kJ mo]	l-1			1978AFa (76614)4178	-
		444444							4
C10H24N4			L	Cyc]	lam		**************************************	* *	*
C10H24N4 1,4,8,11-T	etraa	zacyclo	L otetra	Cycl adecane	lam e; c	yclo(CAS 295-3 (HN.CH2.CH2.N	7-4 (8)	-
C10H24N4 1,4,8,11-T Metal	etraa Mtd	zacyclo Medium 	L otetra Temp	Cycladecane Conc (lam e; c Cal	cyclo(Flags	CAS 295-3 (HN.CH2.CH2.N	7-4 (8) H.(CH2)3)2-) Reference ExptNo	-) -
C10H24N4 1,4,8,11-T Metal	etraa Mtd gl	zacyclo Medium KCl	L otetra Temp 25°C	Cycladecane Conc (lam e; c Cal U	cyclo(CAS 295-3 -(HN.CH2.CH2.N Lg K values	7-4 (8) H.(CH2)3)2-) Reference ExptNo 1997BLd (76644)4179 1990KSa (76645)4180	- , - , -
C10H24N4 1,4,8,11-T Metal Zn++ Zn++	Tetraa Mtd gl gl oth	zacyclo Medium KCl NaClO4 KNO3 ion	L otetra Temp 25°C 25°C	Cycladecane Conc (0.50M 0.10M	lam e; c Cal U U U	Flags	CAS 295-3 -(HN.CH2.CH2.N	7-4 (8) H.(CH2)3)2-) Reference ExptNo 1997BLd (76644)4179 1990KSa (76645)4180 9.77 1984BSa (76646)4181	- , - , -
C10H24N4 1,4,8,11-T	Tetraa	zacyclo Medium KCl NaClO4 KNO3 ion NaClO4	L otetra Temp 25°C 25°C 25°C	Cycladecane Conc (0.50M 0.10M	lam e; c Cal U U U U U U U T	Flags	CAS 295-3 -(HN.CH2.CH2.N	7-4 (8) H.(CH2)3)2-) Reference ExptNo 1997BLd (76644)4179 1990KSa (76645)4180 9.77 1984BSa (76646)4181	-) -) -
C10H24N4 1,4,8,11-T	Tetraa Mtd gl gl oth .ltrat vlt	zacyclo Medium KCl NaClO4 KNO3 ion NaClO4	L otetra Temp 25°C 25°C 25°C	Cycladecane Conc (0.50M 0.10M	lam e; c Cal U U U U U T	Flags	CAS 295-3 -(HN.CH2.CH2.NI	7-4 (8) H.(CH2)3)2-) Reference ExptNo 1997BLd (76644)4179 1990KSa (76645)4180 9.77 1984BSa (76646)4181 1981YPa (76647)4182	
C10H24N4 1,4,8,11-T	Tetraa Mtd gl gl oth ltrat vlt gl cal	zacyclo Medium KCl NaClO4 KNO3 ion NaClO4 KNO3 KNO3	L otetra Temp 25°C 25°C 25°C 25°C 25°C 25°C	Cycladecane Conc (0.50M 0.10M 0.10M	lam e; c Cal U U U U U U U U U U	Flags	CAS 295-3 -(HN.CH2.CH2.N	7-4 (8) H.(CH2)3)2-) Reference ExptNo 1997BLd (76644)4179 1990KSa (76645)4180 9.77 1984BSa (76646)4181 1981YPa (76647)4182 1980MPa (76648)4183	
C10H24N4 1,4,8,11-T	Tetraa Mtd gl gl oth ltrat vlt gl OH. D gl kJ mo	zacyclo Medium KCl NaClO4 KNO3 ion KNO3 KNO3 KNO3 KNO3 NaClO4 KNO3	L otetra Temp 25°C 25°C 25°C 25°C 25°C 25°C 25°C 25°C	Cycladecane Conc (0.50M 0.10M 0.10M 0.10M 1.0M kJ mol	lam e; c Cal U U U U U U U H U H H H H H H H H H H	Flags Flags H	CAS 295-3 -(HN.CH2.CH2.N	7-4 (8) H.(CH2)3)2-) Reference ExptNo 1997BLd (76644)4179 1990KSa (76645)4180 9.77 1984BSa (76646)4181 1981YPa (76647)4182	

```
DH(K1) = -31.8 \text{ kJ mol} -1
*************************************
                            (4712)
1,4-Bis(3-aminopropyl)-1,4-diazacyclohexane, 1,4-Bis(3-aminopropyl)-piperazine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M U K1=6.32 1990HNa (76684)4187
*****************************
                   CAS 91135-29-4 (6516)
C10H24N4
1,5-Bis(2-aminoethyl)-1,5-diazacyclooctane; NH2.CH2CH2.N(CH2CH2CH2)2N.CH2CH2.NH2
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M U K1=12.81 1990HNa (76689)4188
*********************************
C10H24N40
                          CAS 468743-83-1 (8673)
1,4,7,10-Tetraazacyclododecane-1-ethanol;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 0.10M C M K1=13.8 1995KKc (76698)4189
                        *K(ZnL) = -7.60
                        K(ZnL+A)=1.6
                        K(ZnL+SCN)=2.0
                        K(ZnL+B)=3.0
K(ZnL+Cl)=1.3. HA is ethanoic acid, H2B is 4-nitrophenylphosphoric acid.
********************************
                            (7051)
1-0xa-4,7,10,13-tetraazacyclopentadecane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 25°C 0.10M C K1=13.21 1994CDa (76705)4190
-----
Zn++ gl NaNO3 25°C 0.10M U K1=13.11 1990HWa (76706)4191
***********************************
C10H25N5
              L 15-Ane-N5 CAS 295-64-7 (99)
1,4,7,10,13-Pentaazacyclopentadecane; cyclo(-(HN.CH2.CH2)5-)
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaClO4 25°C 0.20M M H K1=19.1
                                  1978KKb (76727)4192
Zn++
                        B(ZnHL)=22.2
DH1=-57.3 kJ mol-1
*********************************
                          CAS 168324-43-4 (9175)
1,4-Bis(2-aminoethyl)-1,4,7-triazacyclononane;
-----
Metal
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
gl R4N.X 25°C 0.10M C
Zn++
                        K1=17.48
                                  2004TBa (76742)4193
                        K(ZnL+H)=3.2
                        K(ZnL+OH)=3.74
                        K(ZnL+2OH)=3.47
Medium: 0.1 M N(CH3)4Cl
The reported K(ZnL+2OH) is more probably K(ZnLOH+OH)
******************************
C10H26N2O12P4
            H8L
                          CAS 28698-30-8 (3342)
N,N,N',N'-Tetra(phosphomethyl)cyclohexane-1,2-diamine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.10M U K1=9.12 1959BYa (76752)4194
****************************
                 Spermine CAS 71-44-3 (291)
4,9-Diazadodecane-1,12-diamine; (H2N.CH2.CH2.CH2.NH.CH2.CH2.)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                         K1=7.79 2001FSb (76788)4195
Zn++ gl oth/un 25°C 0.10M C
                        B(ZnHL)=16.47
                        B(ZnH-1L)=-1.83
Medium: tetramethylammonium p-toluenesulfonate, 0.10 M.
______
     cal none 25°C 0.0 C H
                                  1984ABf (76789)4196
                        B2eff=5.22 (pH 6.1)
DH(B2eff)=-44.88 kJ mol-1.
**********************************
C10H26N4O6P2
             H4L
                           CAS 200951-96-8 (7643)
1,4,7,10-Tetraazacyclododecane-1,7-bis(methanephosphonic acid);
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        K1=21.2
Zn++ gl KCl
            25°C 0.10M C
                                 1998BRa (76799)4197
                        *K(ZnL) = -6.3
                        K(ZnL+H)=5.3
*********************************
                      CAS 55677-43-5 (1178)
1,1,2,2-Tetramercaptoethylamine-ethane; (CH(S.CH2.CH2.NH2)2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M U
                                  1976CJa (76813)4198
                       K(Zn+H2L)=4.65
*****************************
                          CAS 58214-71-4 (5539)
4,7,10-Triazatridecane-1,13-diamine;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
```

```
gl NaClO4 25°C 0.15M C
                                  2002AGa (76827)4199
Zn++
                         K1=13.01
                         K(ZnL+H)=7.43
                         K(ZnL+OH)=1.88
********************************
                 PENTEN CAS 4097-90-9 (3315)
             L
N,N,N',N'-Tetra-(2-aminoethyl)diaminoethane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaNO3 25°C 1.0M C K1=16.66 2001GLb (76860)4200
                        B(ZnHL) = 24.95
______
Zn++ cal KNO3 25°C 0.10M U H K1=16.15 1971PWa (76861)4201
                         K(Zn+HL)=14.05
                         K(ZnL+H)=8.0
                         K(ZnHL+L=ZnL+HL)=2.08
DH(K1)=-60.6 kJ mol-1, DS=104.5 J K-1 mol-1; DH(Zn+HL)=-61.2, DS=62.7;
DH(ZnL+H)=-47.9, DS=-7.9; DH(ZnHL+L=ZnL+HL)=0.6, DS=37.6
                      -----
                         K1=16.05 1964SPb (76862)4202
Zn++ cal KCl 25°C 0.10M U H
                         B(ZnHL)=14.00
K calculated. By calorimetry: DH(K1)=-60.6 kJ mol-1, DS=104.5 J K-1 mol-1;
DH(ZnHL) = -61.2, DS = 62.7
______
                         K1=16.24 1953SMa (76863)4203
Zn++ gl KCl 20°C 0.10M U
                         K(Zn+HL)=14.20
                         K(ZnL+H)=8.16
******************************
C11H8N2O
                  Dipyridylketone CAS 19437-26-4 (1151)
2,2'-Carbonyldipyridine; C5H4N.CO.C5H4N
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaClO4 25°C 0.10M U K1=2.12 1975FSb (76916)4204
                        K(ZnH-1L+H)=5.3
*******************************
C11H8N60
                            (7009)
1-(5-Tetrazolyl)azo-2-naphthol;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp NaClO4 20°C 0.10M U K1=8.20 B2=15.10 1978SSf (76924)4205
****************************
             H4L
C11H8N607S2
                            CAS 35322-95-7 (909)
3-Hydroxy-4-(1H-tetrazol-5-ylazo)-2,7-naphthalenedisulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp NaClO4 25°C 0.10M U K1=8.51
                                 1978BEa (76935)4206
```

```
***********************************
C11H8N608S2
           H5L
                        CAS 74385-48-1 (897)
2-(1H-Tetrazol-5-ylazo)chromotropic acid;
  Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
sp NaClO4 25°C 0.10M U
                              1983PSa (76947)4207
                    K(Zn+H2L=ZnHL+H)=-2.72
*******************************
                       CAS 15473-70-8 (4826)
1-Mercapto-1,3-bis(2-thienyl)prop-1-en-3-one;
 .-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=9.76 B2=19.27 1969UTa (76957)4208
******************************
C11H8O3
                        CAS 86-48-6 (1129)
1-Hydroxy-2-naphthoic acid;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                     K1=8.37 1980DCb (77001)4209
Zn++ gl KNO3 25°C 0.10M M
                     K(Zn(nta)+L)=4.59
______
           30°C 0.10M U T H K1=7.49 B2=14.34 1976SSb (77002)4210
     gl KNO3
At 35 C: K1=8.15, K2=7.65; 40 C: 8.81, 8.20
*****************************
                        CAS 2083-08-1 (1131)
C11H803
           H2L
2-Hydroxy-1-naphthoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                     K1=7.85
     gl KNO3 25°C 0.10M M
                              1980DCb (77057)4211
                     K(Zn(nta)+L)=4.07
**********************************
C11H803
                        CAS 483-35-6 (3347)
2-Hydroxy-3-methyl-1,4-naphthoquinone;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     vlt oth/un 25°C 0.20M U
Zn++
                              1966SPa (77072)4212
                     B3=12.15
phosphate buffer
-----
     gl diox/w 30°C 75% U K1=6.80 B2=12.80 1960KFc (77073)4213
CAS 92-70-6 (1130)
2-Hydroxy-3-naphthoic acid (3-Hydroxy-2-naphthoic acid);
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Metal
```

```
gl diox/w 25°C 50% C K1=7.8 1987CFb (77104)4214
In 50% dioxan/H2O; 0.2 M KNO3.
                   -----
-----
     gl oth/un 25°C ? U
                              1966MAh (77105)4215
Zn++
                      K(Zn+HL=ZnL+H)=4.35
                      K(Zn+2HL=ZnL2+2H)=4.60
********************************
               Plumbagin
C11H8O3
            HL
                       CAS 81402-06-4 (882)
6-Hydroxy-2-methyl-1,4-naphthoquinone;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 30°C 50% U K1=6.21 B2=12.11 1981RRc (77144)4216
*****************************
                        CAS 32267-05-3 (3353)
2-Furoyl-2-thenoylmethane; C4H3O.CO.CH2.CO.C4H3S
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=9.60 B2=18.23 1953UFe (77151)4217
*****************************
C11H804
                        CAS 7555-37-5 (4812)
            HL
3-Acetyl-4-hydroxycoumarin
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 35°C 50% U K1=2.99 B2=5.39 1971MAa (77165)4218 Medium: 50% dioxan, 0.01 M NaClO4
**********************************
                        CAS 6724-42-1 (6183)
8-Formy1-7-hydroxy-4-methy1-2H-1-benzopyran-2-one; CHO.C9H3O(:0)(CH3)(OH)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 35°C 70% U K1=4.24 B2=7.26 1984CEa (77194)4219
C11H9N
                       CAS 1008-89-5 (3934)
2-Phenylpyridine; C6H5.C5H4N
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl04 25°C 0.10M U K1=<1 1964KSb (77302)4220
CAS 92609-55-3 (4827)
C11H9N02
5-Acetyl-8-hydroxyquinoline;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 60% U K1=8.57 B2=16.70 1973SCd (77323)4221
```

```
Medium: 60% dioxan, 0.1 M NaClO4
*************************
                          CAS 29556-13-6 (1450)
N-Phenyl-2-thenoylhydroxamic acid; C4H3SCON(C6H5)OH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U M K1=5.71 B2=12.29 1984ABb (77342)4222
                       B(ZnL(bpy))=12.92
                       B(ZnL(phen))=14.21
-----
Zn++ gl NaClO4 25°C 0.10M U K1=5.92 B2=10.75 1975BLa (77343)4223
*****************************
C11H9N03
                         CAS 80690-05-7 (872)
            H2L
3-Hydroxy-2-methyl-1,4-naphthoquinone monoxime;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl diox/w 30°C 0.10M U K1=5.49 B2=10.56 1981KSa (77359)4224
                      K3=5.12
**********************************
C11H9N03
                         CAS 35975-56-5 (16)
           H2L
Methyl-8-hydroxyquinoline-2-carboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp NaCl04 25°C 0.10M U K1=6.58 1977HCa (77369)4225
*********************************
                         CAS 1137-48-0 (1449)
N-Phenyl-2-furylhydroxamic acid; C4H3O.CO.N(C6H5).OH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U M K1=6.45 B2=12.12 1984ABb (77384)4226
                       B(ZnL(bpy))=12.81
                      B(ZnL(phen))=14.00
Zn++ gl NaClO4 25°C 0.10M U K1=5.96 B2=10.74 1975BLa (77385)4227
CAS 4321-82-7 (4829)
C11H9N04
3-Acetyl-4-hydroxycoumarin oxime;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 35°C 50% U
                                1971MAa (77407)4228
                       K(Zn+HL)=2.72
                       K(Zn+2HL)=4.83
Medium: 50% dioxan, 0.01 M NaClO4
**********************************
                          CAS 65490-35-9 (6230)
C11H9N04
```

```
8-Formyl-7-hydroxy-4-methyl-2H-[1]benzopyran-2-one-oxime; (CH3)(OH)C9H3O(:0)CH:NOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 35°C 70% U K1=5.18 B2=8.68 1984CEa (77435)4229
******************************
C11H9N2O2F3S HL
                         CAS 33354-16-4 (1681)
2-Methyl-8-(Trifluoromethanesulfonamido)quinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl diox/w 30°C 75% U K1=8.5 B2=15.7 1984NYa (77442)4230
*****************************
                         CAS 10335-29-2 (3937)
C11H9N30
2-(2'-Pyridylazo)phenol; C5H4N.N:N.C6H4.OH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp alc/w 24°C 5% U B2=15.48 1973BJb (77451)4231
Medium: 5% EtOH, 0.1 M NaClO4
------
    gl alc/w 25°C 50% U K1=8.8 B2=16.90 1967ANa (77452)4232
Medium: 50% MeOH, 0.1 M NaClO4
******************************
                         CAS 7687-72-1 (3938)
C11H9N30
            HL
4-(2'-Pyridylazo)phenol; C5H4N.N:N.C6H4.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl alc/w 25°C 50% U K1=<3 K2=<3 1967ANa (77469)4233
Medium: 50% MeOH, 0.1 M NaClO4
************************
                         CAS 1141-59-9 (636)
C11H9N3O2
                PAR
4-(2'-Pyridylazo)-1,3-dihydroxybenzene; C5H4N.N:N.C6H3(OH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp none 22°C 0 U
                               1995AHa (77509)4234
                      B2eff=15
B2eff at pH 10.0, I=0.015 M
______
Zn++ sp KNO3 25°C 0.10M U
                       B2=21.52
                               19860Hb (77510)4235
                       K(Zn+2HL)=9.66
                       K(Zn+L+HL)=15.89
                       K(ZnHL2+H)=6.07
                      K(ZnL2+H)=6.67
                      K1=11.2 19830Hb (77511)4236
     sp NaNO3 25°C 0.10M C
                      K(Zn+HL)=5.05
```

```
Zn++ sp KNO3 25°C 0.10M U
                       K1=11.5 B2=20.5 1979PKb (77512)4237
                        K(Zn+HL)=5.2
                        K(Zn+2HL)=7.3
                       K1=11.9 B2=22.20 1968TFb (77513)4238
Zn++ sp NaClO4 25°C 0.10M U
                        K(ZnL+H)=5.90
                        K(ZnL2+H)=7.55
                        K(ZnHL2+H)=6.45
.....
    sp NaClO4 20°C 0.10M U
                                 1966HSb (77514)4239
                        K(Zn+HL)=11.6
______
    gl diox/w 25°C 50% U
Zn++
                                 1962CYa (77515)4240
                        K(Zn+HL)=12.4
                        K(ZnHL+HL)=11.1
                        K(ZnL+H)=7.7
                        K(ZnOHL+H)=9.3
-----
    gl diox/w 25°C 50% U I K1=11.2 B2=19.00 1962GNa (77516)4241
Medium: 50% dioxan, 0.1 M. In 0% dioxan: K1=10.5, K2=6.6
______
     sp oth/un ? ? U
                       B2=25.3 1961HSb (77517)4242
Zn++
                       K(Zn+HL)=12.6
*****************************
C11H9N304
            H2L
                          CAS 82628-26-0 (1379)
1-(2-Tolyl)violuric acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 18°C 50% U T K1=6.38 B2=11.34 1982SGa (77619)4243
Medium: 50% v/v EtOH/H2O, 0.1 M NaClO4
**********************
C11H9N304
                          CAS 82628-27-1 (1378)
1-(3-Tolyl)violuric acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 18°C 50% U T K1=6.54 B2=11.56 1982SGa (77626)4244
Medium: 50% v/v EtOH/H2O, 0.1 M NaClO4
*******************************
                          CAS 82628-25-9 (1377)
C11H9N304
1-(4-Tolyl)violuric acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl alc/w 18°C 50% U T K1=6.75 B2=11.95 1982SGa (77633)4245
Medium: 50% v/v EtOH/H2O, 0.1 M NaClO4
************************************
1,2-Naphthoguinone-4-sulfonic acid 2-semicarbazone; C10H5(:0)(HSO3):N.NH.CO.NH2
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 28°C 0.10M U T H K1=4.47 B2=8.73 1980MGd (77639)4246
*****************************
                       CAS 1132-37-2 (2427)
(2,2'-Dipyridyl)methane; C5H4N.CH2.C5H4N
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                   K1=3.20 B2= 6.39 20010Va (77652)4247
Zn++ gl KCl 25°C 0.20M C
                    B(ZnHL)=7.35
______
Zn++ gl NaClO4 25°C 0.10M C
                             1979FSa (77653)4248
                     B(ZnL(pyrocatecholate))=13.54
                     K(ZnL+pyrocatecholate)=10.73
                     K(Zn(pyrocatecholate)+L)=3.64
             _____
Zn++ gl KNO3 20°C 0.10M U
                    K1=2.81 B2=5.20 1970BAa (77654)4249
                     K(Zn+HL)=2.0
                     K(Zn+ZnL)=2.1
C11H10N2O
                        (7591)
4'-(Imidazol-1-yl)acetophenone;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ gl NaNO3 25°C 0.50M M K1=1.94 1998KSa (77663)4250
*************************
C11H10N2O2 HL
                      CAS 75793-37-6 (1669)
N-(8-Quinolyl)aminoethanoic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M U K1=3.6 B2=7.20 1969TKa (77676)4251
***********************
C11H10N3OClS
                        (1294)
2-(4',5'-Dimethyl-2'-thiazolylazo)-4-chlorophenol;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 60% U K1=6.37 B2=12.47 1981KTa (77687)4252
PAPHY
                       CAS 2215-33-0 (1305)
Pyridine-2-aldehyde-2'-pyridyl-hydrazone; C5H4N.CH:N.NH.C5H4N
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ EMF KNO3 20°C 0.10M U K1=6.21 B2=11.79 1971ANa (77699)4253
______
```

```
1971QBa (77700)4254
Zn++ dis NaClO4 20°C 0.10M U
                         K(Zn+HL)=5.7
                         K(Zn+2HL)=12.2
                         K(ZnHL2+H)=7.96
                         K(ZnL2+H)=8.78
                          . . . . . . . . . . . . . . . . . .
Zn++ gl oth/un 60°C 0.0 U T H
                                   1968GGc (77701)4255
                         K(Zn+HL)=4.93
                         K(Zn+2HL)=9.94
K(Zn+HL)=6.40(5 C),5.82(25C),5.48(40C). DH=-46.0 kJ mol-1,DS=-42 J K-1 mol-1
K(Zn+2HL)=11.77(5 C),11.08(25 C),10.63(40 C). DH=-58.1, DS=17
______
Zn++ gl oth/un 25°C 0.0 U
                         B2=23 1964GHd (77702)4256
                         K(Zn+HL)=5.7
                         K(Zn+2HL)=11.2
                         K(ZnHL2+H)=7.94
                         K(ZnL2+H)=8.85
********************************
3-(2'-Hydroxyphenyl)-1-(pyrimidin-2''-yl)-1,2-diazaprop-2-ene;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 25°C 50% U K1=9.2 B2=16.30 1967ANd (77714)4257
Medium: 50% MeOH, 0.1 M NaClO4
*********************************
C11H10N4O2S
                             (6353)
1-Cyanoacetyl-4-benzoylthiosemicarbazide; C6H5.CS.NH.NH.CO.NH.CO.CH2.CN
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 25°C 70% C K1=10.81 B2=17.82 1982SDa (77720)4258
In 70% ethanol/H2O; Electrolyte: 0.1 M KCl
************************
C11H11N0
                           CAS 39892-35-8 (3940)
2-Ethyl-8-hydroxyquinoline;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.0 U K1=9.89 B2=19.11 1966KUc (77763)4259
****************************
                           CAS 35385-27-4 (8689)
8-Hydroxy-(2-hydroxyethyl)quinoline;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp KCl 30°C 1.0M M K1=7.83 1996BTa (77766)4260
******************************
                           CAS 830-96-6 (892)
C11H11N02
Indole-3-propanoic acid;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% C M K1=2.52
                                 1985BSd (77778)4261
                        K(Zn(phen)+L)=2.63
Medium: 50% v/v dioxan/H20, 0.1 M NaClO4
***********************************
                           CAS 32345-47-4 (6227)
C11H11N04
4-Methoxymaleanilic acid; HOOC.CH:CH.CO.NH.C6H4.OCH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl alc/w 22°C 80% U T H K1=7.90 B2=14.25 1985SAb (77785)4262
30 C: K1= 7.80, K2=6.35; 40 C: K1= 7.65, K2=6.20
DH(K1)=-23.0 kJ mol-1, DS=71 J K-1 mol-1; DH(K2)=-14.2, DS=75
********************************
C11H11N06
                          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
-----
Zn++ gl KNO3 25°C 0.10M C M K1=8.42
                                 1990DAb (77806)4263
                        K(ZnL+A)=3.58
                        B(ZnLA)=12.00
H2A: salicylaldoxime
_____
Zn++ gl KNO3 25°C 0.10M C M K1=8.42 1990DAc (77807)4264
                        K(ZnL+A)=3.35
                        B(ZnAL)=11.77
HL: benzohydroxamic acid
-----
Zn++ gl KNO3 25°C 0.10M U K1=8.42 1967UKa (77808)4265
Zn++ sp NaNO3 20°C 0.10M U
                                  1961DSa (77809)4266
                       K(?)=5.61
______
      EMF KCl 20°C 0.10M C
                      K1=7.7
                                 1950WIa (77810)4267
Method: H electrode
***********************************
C11H11NS
                       CAS 54128-50-6 (1033)
2,7-Dimethyl-8-mercaptoquinoline;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl non-aq 25°C 100% U K1=9.1 B2=16.0 1984UBa (77853)4268
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a
Zn++ EMF non-aq 25°C 100% U K1=9.1 B2=16.00 1983UBa (77854)4269
Medium: DMF, 0.1 M LiClO4
*********************************
```

```
C11H11NS2
                           CAS 54487-80-8 (5694)
              HL
2-Methyl-(5-thiomethyl)-8-mercaptoquinoline:
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ EMF non-aq 25°C 100% U K1=7.1 B2=12.90 1986UBa (77864)4270
Medium: dimethylformamide, LiClO4
***********************
C11H11N2O2Br
3-[4-Bromophenylazo]penta-2,4-dione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 0.1M U K1=6.82 2004GMc (77871)4271
Medium: 0.1 mol/L KCl in 3:7 EtOH/H2O mixture
*********************************
C11H11N2O2Cl
                            (9229)
3-[4-Chlorophenylazo]penta-2,4-dione;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 0.1M U K1=6.92 2004GMc (77883)4272
Medium: 0.1 mol/L KCl in 3:7 EtOH/H2O mixture
*******************************
C11H11N2O2I
                            (9227)
3-[4-Iodophenylazo]penta-2,4-dione;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 0.1M U K1=6.85 2004GMc (77894)4273
Medium: 0.1 mol/L KCl in 3:7 EtOH/H2O mixture
**********************************
C11H11N302S
                Sulfapyridine CAS 144-83-2 (8356)
4-Amino-N-2-pyridinyl-benzenesulfonamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 30°C 50% C M
                                 1999MBc (77926)4274
                        B(Zn(gly)L)=11.05
                        B(ZnAL)=10.64
                        B(Zn(met)L)=10.22
                        B(ZnH-1(gly)L)=4.08
In 50% v/v EtOH/H20, 0.10 M NaNO3. B(ZnH-2(gly)L)=-4.20; B(ZnH-1AL)=2.79,
B(ZnH-2AL)=-5.36; B(ZnH-1(met)L)=2.32, B(ZnH-2(met)L)=-5.74. A: Beta-ala
______
    gl diox/w 30°C 50% U
                         K1=4.39 B2= 7.84 1993MBc (77927)4275
Zn++
                        *K(ZnL) = -7.05
                        *K(ZnL2)=-7.85
                        *K(Zn(OH)L2)=-11.45
Medium: 50% v/v dioxane/H20, 0.10 M NaNO3.
```

```
************************************
C11H11N3O3
                           CAS 51451-03-7 (4834)
3-Methyl-4-(2'-methoxyphenylazo)isoxazol-5-one;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U B2=9.0 1971SYa (77939)4276
*************************
C11H11N3O3S
                           CAS 67665-24-1 (8341)
Furoin thiosemicarbazone;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl alc/w 30°C 50% U T H K1=8.95 B2=16.88 1991HRa (77948)4277
Medium: 50% v/v EtOH/H2O, 0.1 M NaClO4. Data for 40 and 50 C.
DH(K1)=-144 \text{ kJ mol}-1, DS(K1)=306 \text{ J K}-1 \text{ mol}-1; DH(K2)=-121, DS(K2)=248.
*************************
                            (9230)
3-[4-Nitrophenylazo]penta-2,4-dione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=6.58 2004GMc (77954)4278
      gl alc/w 25°C 0.1M U
Medium: 0.1 mol/L KCl in 3:7 EtOH/H2O mixture
***********************************
                           CAS 50519-24-9 (3367)
4-(4-Chlorophenylimino)pentan-2-one; CH3.CO.CH2.C(:N.C6H4.Cl).CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      gl alc/w 25°C 70% U K1=5.64 1992CGd (77978)4279
Medium: 70% EtOH/H20. For 4-fluoro K1=4.70; 4-bromo 5.74; 4-iodo 5.93
*************************************
                         CAS 60-80-0 (2026)
                 Antipyrine
2,3-Dimethyl-1-phenyl-3-pyrazolin-5-one, Phenazone;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
. - - -
                        K1=0.43 B2=0.64 1980LWa (78000)4280
Zn++ gl KNO3 25°C 0.50M U
                       B3=0.65
***********************************
C11H12N2O2
                           CAS 103314-23-4 (6182)
2-(N-2-Pyrrolidimino)benzoic acid; C4H7N:N.C6H4.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
___________
Zn++ gl NaClO4 25°C 0.10M U TIH B2=9.65 1988GRb (78012)4281
35 C:B2=9.78, 45 C:9.90. DH(B2)=22.7 kJ mol-1, DS=260.9 J K-1 mol-1
***********************************
C11H12N2O2
             HL
                 Tryptophan
                          CAS 73-22-3 (3)
```

```
2-Amino-3-(3-indolyl)propanoic acid; H2N.CH(CH2.C8H6N)COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 35°C 0.10M C M K1=4.96 1999DSb (78135)4282
                      B(ZnAL)=5.12
A is thiamine hydrochloride.
-----
Zn++ vlt NaClO4 25°C 1.0M C M K1=5.00 B2= 9.60 1997KKb (78136)4283
                       B3=12.30
                       B(ZnAL)=5.20
                       B(ZnA2L) = 9.85
                       B(ZnAL2)=12.50
Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50.
                     -----
                    M K1=4.90
   gl KNO3 35°C 0.10M C
                                1997PSb (78137)4284
Zn++
                       K(ZnL+A)=4.83
H2A is thiamine orthophosphoric acid.
Zn++ gl NaClO4 25°C 0.20M M K1=4.83 1996VBa (78138)4285
-----
Zn++ gl NaClO4 25°C 0.20M M K1=4.835 B2= 9.66 1994VBb (78139)4286
Zn++ gl NaCl04 25°C 0.20M M K1=4.855 B2= 9.66 1994VBc (78140)4287
______
Zn++ gl NaCl04 25°C 0.20M U M K1=4.88 B2=9.63 1992VBa (78141)4288
                       B(ZnL(Tyr))=10.36
                       B(ZnL(Phe))=9.88
Zn++ gl KNO3 35°C 0.10M U K1=4.60 1990RSe (78142)4289
______
Zn++ gl KNO3 35°C 0.10M U M K1=4.99 1989RSb (78143)4290
                    K(Zn(thiodipropanoate)+L)=4.93
_____
Zn++ gl KNO3 35°C 0.20M U M K1=4.59 B2=8.64 1989RVa (78144)4291
                       K(ZnA+L)=4.66
A=bis(imidazol-2-yl)methane
                   -----
_____
Zn++ gl KNO3 25°C 0.20M U M K1=4.79
                                1988BSc (78145)4292
                    K(Zn(bpy)+L)=5.16
_____
Zn++ gl KNO3 25°C 0.10M U M K1=5.16 B2=9.62 1988MBa (78146)4293
-----
Zn++ vlt NaCl04 25°C 0.10M C K1=9.0 B2=14.78 1986KSc (78147)4294
Method: polarography. Medium pH 7.0
______
Zn++ gl KNO3 25°C 0.10M U K1=4.70 1985MKa (78148)4295
-----
Zn++ gl KNO3 25°C 0.10M C H K1=4.70 B2=8.93 1983ACb (78149)4296
DH(K1)=-12.1; DH(B2)=-24.3 kJ mol-1.
```

```
Zn++ gl KNO3 35°C 0.10M C M K1=4.96
                              1983KSc (78150)4297
                      K(ZnHA+L)=5.24
                      K(ZnHB+L)=4.92
A is adenine; HB is cytosine.
-----
   gl KCl 20°C 0.15M U K1=4.62 1982VDa (78151)4298
-----
                      K1=9.0 B2=14.70 1981KVa (78152)4299
     vlt NaClO4 25°C 0.10M C
Method: polarography. Medium pH 7.0
______
Zn++ gl NaClO4 25°C 0.10M C M K1=4.69 1976SNa (78153)4300
                      K(ZnL+ATP)=5.03
                      K(Zn(ATP)+L)=4.51
------
   gl NaNO3 20°C 0.37M U
                    T K1=5.18 B2=9.87 1971WSa (78154)4301
_____
Zn++ gl NaClO4 25°C 3.0M U T K1=5.01 B2=9.78 1970WIa (78155)4302 B3=13.50
------
   gl oth/un 20°C .005M U B2=8.2
                              1953PEa (78156)4303
Medium: 0.005 ZnSO4
______
Zn++ gl oth/un 20°C 0.01M U K2=9.3 1950ALa (78157)4304
***************************
                          (9226)
C11H12N2O2
3-[Diphenylazo]penta-2,4-dione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     gl alc/w 25°C 0.1M U
                      K1=7.96 2004GMc (78245)4305
Medium: 0.1 mol/L KCl in 3:7 EtOH/H2O mixture
*********************************
                        CAS 51925-00-9 (1677)
2-Methyl-8-(methanesulfonamido)quinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 30°C 75% U K1=10.9 B2=22.0 1984NYa (78256)4306
**************************
C11H12N2O3
                          (6598)
2,3-Dehydro-N-glycyl-phenylalanine; NH2.CH2.CO.NH.C(COOH):CH.C6H5
    Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 25°C 0.10M C
                      K1=3.21 B2=6.02 1994JBa (78265)4307
                      B(ZnH-1L)=-4.83
                      B(ZnH-2L)=-13.05
                      B(ZnH-1L2)=-2.17
                      B(ZnH-2L2)=-10.89
```

```
***********************************
C11H12N2O3
                          CAS 121565-72-8 (8344)
2-[[2-(Hydroxyimino)-1-methylpropylidene]amino]benzoic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl alc/w 30°C 50% C T H K1=8.62 1993HCb (78270)4308
Medium: 50% v/v EtOH/H2O, 0.10 M NaClO4. For meta-COOH, K1=10.20;
for para-COOH, K1=8.88. Data for 40 and 50 C and DH and DS values.
*********************************
                          CAS 20771-72-6 (3359)
4-(4-Nitrophenylimino)pentan-2-one; CH3.CO.CH2.C(:N.C6H4.NO2).CH3
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=9.37 B2=17.23 1961MJa (78275)4309
C11H12N2O3
                          CAS 114-03-4 (4839)
5-Hydroxytryptophan;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
______
    vlt NaClO4 25°C 1.0M C
Zn++
                     М
                                1997KKb (78288)4310
                       K(Zn+HL)=4.50
                       K(Zn+2HL)=8.72
                       K(Zn+3HL)=12.00
                       K(Zn+HL+A)=4.70
Method: polarography. K(Zn+HL+2A)=8.85, K(Zn+2HL+A)=12.32.
HA is pyridoxine (vitamin B6). Medium pH 8.50.
______
Zn++ gl NaNO3 20°C 0.37M U
                                1971WSd (78289)4311
                       K(Zn+HL)=4.49
                       K(Zn+2HL)=8.78
*********
C11H12N2O3
                         CAS 642074-71-3 (9045)
N-Benzyl-N'-hydroxypiperazine-2,6-dione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     gl KNO3 25°C 0.10M C B2=8.23
                               2003CMb (78296)4312
**********************************
C11H12N2O5
                         CAS 5853-99-6 (8739)
N-[N-(2-Hydroxybenzoyl)glycyl]glycine;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
Zn++ gl alc/w 30°C 50% C
                                1991MCb (78303)4313
                       K(Zn+HL=ZnH-2L+3H)=-19.21
Medium: 50% v/v EtOH/H2O, 0.2 M NaNO3.
**********************************
```

```
C11H12N2O5S
                           CAS 56475-09-3 (8410)
             HL
3-(4'-Sulfophenylhydrazo)-pentane-2,4-dione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KCl 25°C 0.10M U T K1=7.48 2005ACa (78311)4314
For 35 C K1=7.33; for 45 C K1=7.18
**********************************
       H3L
C11H12N2O7
                          CAS 76268-70-5 (3360)
N-(2-Hydroxy-5-nitrobenzyl)iminodiethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KCl 20°C 0.10M U K1=12.6 1952SAb (78339)4315
********************
                      CAS 86869-40-1 (8372)
C11H12N40
3-(2-Methoxyphenyl)-6-hydrazinopyridazine;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 37°C 0.15M U K1=3.603 B2= 7.25 1984AMb (78346)4316
Also data for the 3-methoxyphenyl- derivative (B2=7.513, B3=10.00)
and the 4-methoxyphenyl- derivative (K1=3.788)
C11H12N4O2
                           (4837)
2-(5-Methyl-4-imidazolylazo)-4-methoxyphenol;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=10.0 B2=16.90 1968YTa (78352)4317
Medium: 50% dioxan, 0.1 M KNO3
***************************
C11H12N6
                           CAS 127742-73-8 (3107)
4-(Imidazol-4-ylmethyl)-2-(imidazol-2-ylmethyl)imidazole;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl04 25°C 0.10M C M K1=8.45 B2=13.42 2000JGa (78365)4318
                        B(ZnHL)=11.98
                        B(ZnH-1L)=0.23
                        B(ZnHL2)=19.45
                        B(ZnH2L2)=24.05
For H2A=cysteine: B(ZnAL)=15.66, B(ZnHAL)=23.06, B(ZnH2AL)=28.79.
********************************
C11H12O4S2
            H2L
                          CAS 4265-49-0 (4840)
4-Methyl-1,2-phenylenebisthioethanoic acid; CH3.C6H3(S.CH2.C0OH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=2.20
                               1971FPa (78412)4319
```

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************************************
C11H1209
            H3L
                         CAS 69065-58-3 (2714)
1,2,4-Trihydroxy-3,4,5-trimethoxycarbonylcyclopentadiene;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·-----
      gl NaClO4 25°C 0.10M C T
                                1978MSh (78423)4320
                      DH(Zn+HL)=-7.1 kJ/mol
Data obtained from three lgK values at 15, 25 and 35 C.
                   gl NaClO4 25°C 0.10M U
                                1975MSb (78424)4321
                       K(Zn+HL)=5.92
                       K(ZnHL+HL)=4.57
*****************************
C11H13N0
             HL
                         CAS 880-12-6 (3361)
4-(Phenylimino)pentan-2-one; CH3.CO.CH2.C(:N.C6H5).CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
      gl alc/w 25°C 70% U K1=7.41
                               1992CGd (78436)4322
Medium: 70% EtOH/H20
************************************
C11H13N04
            H2L
                           (3364)
N-2-Tolyliminodiethanoic acid; CH3.C6H4.N(CH2COOH)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
-----
Zn++ gl KCl 30°C 0.10M U K1=2.7 1957TBb (78544)4323
*******************
                         CAS 300042-63-8 (7950)
C11H13N04
            H2L
N-4-Tolyliminodiethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      cal NaClO4 25°C 0.10M C H
                               1997ZLa (78549)4324
DH(K1)=15.1, DH(K2)=11.4 kJ mol-1. DH(B(ZnL(nta))=11.0.
**********************************
                      CAS 3987-53-9 (966)
C11H13N04
            H2L
N-Benzyliminodiethanoic acid; C6H5.CH2.N(CH2.COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
- - '
     gl oth/un ? ? U K1=7.0 1975DTa (78571)4325
-----
Zn++ gl KNO3 25°C 0.10M C K1=6.98 B2=12.51 1975IPa (78572)4326
Zn++ gl KCl 40°C 0.10M U T K1=6.96 B2=12.25 1968EAb (78573)4327
K1=7.09(10 C), 7.00(25 C); K2=5.65(10 C), 5.45(25 C)
********************************
            H3L
                         CAS 7372-13-6 (1603)
C11H13N05
                HBIDA
```

```
N-(2-Hydroxybenzyl)iminodiethanoic acid; HO.C6H4.CH2.N(CH2.COOH)2
  -----
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
                        K1=12.99
     gl KNO3 25°C 0.10M C
                                  1975HMb (78611)4328
                         K(ZnL+H)=5.79
                         K(Zn+HL)=7.07
*********************************
C11H13N06
                           CAS 1911-59-2 (4852)
2,3-Dihydroxybenzyliminodiethanoic acid; (HO)2.C6H3.CH2.N(CH2.COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values
______
     EMF oth/un ? ? U
                                   1975DTa (78655)4329
                         K(Zn+HL)=13.3
                         K(Zn+H2L)=8.2
********************************
C11H13N06
                            CAS 59036-09-8 (2111)
2,5-Dihydroxybenzyliminodiethanoic acid; (HO)2.C6H3.CH2.N(CH2.COOH)2
  -----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.0 U
                                   1970TTb (78670)4330
                         K(Zn+HL)=13.6
                         K(Zn+H2L)=8.0
******************************
C11H13N06
             H4L
                            CAS 31477-66-7 (4853)
2,6-Dihydroxybenzyliminodiethanoic acid; (HO)2.C6H3.CH2.N(CH2.C0OH)2
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      EMF oth/un ?
                 ? U
                                   1975DTa (78686)4331
                         K(Zn+HL)=10.9
                         K(Zn+H2L)=8.0
*******************************
             H3L
C11H13N06S
                           CAS 20531-36-6 (4872)
N-Benzenesulfonyl-1-glutamic acid;
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     EMF none 30°C 0.0 U
Zn++
                                   1970GDb (78696)4332
                         K(Zn+H3L=ZnH2L+H)=1.77
                         K(ZnHL+H)=4.32
********************************
C11H13N3O
              L
                 Ampyrone
                           CAS 83-07-8 (2027)
4-Amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one, 4-Aminoantipyrine;
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 25°C 0.50M U K1=1.32 B2=2.42 1980LWa (78704)4333
```

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************************************
C11H13O4AsS
                         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
-----
      gl oth/un 25°C 0.10M U K1=3.20 1971FPa (78740)4334
                      K(Zn+HL)=2.52
***********************************
                       CAS 51036-80-7 (444)
C11H14N2O
1-(1-Ethoxyethyl)benzimidazole:
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    kin NaCl 80°C 0.90M C
                                1980LKa (78768)4335
                     K(Zn+HL=ZnL+H)=3.1
*********************************
C11H14N2O
                           (4854)
Methylglyoxal 4-dimethylaminoanil
  -----
     Mtd Medium Temp Conc Cal Flags Lg K values
_____
Zn++ sp oth/un ? ? U K1=5.46 1969SMa (78774)4336
***********************************
        HL Gly-Phe
C11H14N2O3
                         CAS 3321-03-7 (829)
Glycyl-phenylalanine; H2N.CH2.CO.NH.CH(CH2.C6H5).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.01M U K1=3.8 1954PEa (78807)4337
****************************
            H2L
                Gly-Tyr
                         CAS 658-79-5 (533)
Glycyl-tyrosine; H2N.CH2.CO.NH.CH(CH2.C6H4.OH).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.16M M
                       B2=8.14
                               1979AKa (78853)4338
                       B(ZnHL)=13.48
                       B(ZnH2L2)=26.31
                       B(ZnHL2)=17.80
                       B(ZnH-1L)=-1.40
B(ZnH-2L2)=-11.8
     gl oth/un 25°C 0.01M U
                               1954PEa (78854)4339
                      K(Zn+HL)=2.6
***********************************
                          (1880)
N-(6-Methyl-2-pyridylmethyl)iminodiethanoic acid; CH3C5H3NCH2N(CH2COOH)2
-----
Metal
     Mtd Medium Temp Conc Cal Flags Lg K values
                                Reference ExptNo
```

```
ISE NaNO3 20°C 0.10M C H K1=9.80 1981ANb (78871)4340
DH(K1)=-9.2 \text{ kJ mol}-1, DS=156 \text{ J K}-1 \text{ mol}-1
additional method: exchange equilibria
**********************
                          CAS 642074-70-2 (9044)
N-Benzyl-N-carboxymethyl-iminoacetohydroxamic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=6.63 B2=11.06 2003CMb (78900)4341
                        B(ZnHL)=12.84
                        B(ZnHL2)=18.6
                        B(ZnH2L2)=24.51
*********************************
                       CAS 56566-64-4 (2816)
Biacetylmonoxime-4-phenyl-3-thiosemicarbazone;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 30°C 50% U T H K1=6.95 1992HRa (78935)4342
Medium: 50% v/v EtOH/H2O, 0.1 M NaClO4. Data for 40 and 50 C.
DH(K1) = -30.7 \text{ kJ mol-1}, DS(K1) = 31.0 \text{ J K-1 mol-1}.
******************************
          L Tubercidin CAS 69-33-0 (6412)
C11H14N4O4
7-Deazaadenosine, Tubercidin;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaNO3 25°C 0.50M C K1=0.19 2002KSb (78948)4343
_____
Zn++ gl NaNO3 25°C 0.50M M K1=0.33 1991JCa (78949)4344
*******************************
                1-Methylinosine CAS 2140-73-0 (8133)
1-Methylhypoxanthine-9-beta-D-ribofuranoside;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 1.0M U
                                 1981LVa (78971)4345
                      K(Zn+HL=ZnHL)=0.3
*********************************
                          CAS 20907-24-8 (4816)
2-Hydroxy-3-methylbutyrophenone; (HO).C6H3(CH3).CO.CH2.CH2.CH3
_____
     Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
______
Zn++ gl KNO3 40°C 0.10M U K1=7.10 1973SPc (78984)4346
*************************
                          CAS 52780-68-4 (4817)
2-Hydroxy-4-methylbutyrophenone; (HO).C6H3(CH3).CO.CH2.CH2.CH3
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 40°C 0.10M U K1=6.68
                                 1973SPc (78989)4347
*******************************
                          CAS 24323-47-5 (4818)
2-Hydroxy-5-methylbutyrophenone; (HO).C6H3(CH3).CO.CH2.CH2.CH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 40°C 0.10M U K1=6.38 1973SPc (78994)4348
***********************************
                           CAS 2270-20-4 (5542)
C11H1402
5-Phenylpentanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C I M K1=1.13
                                  1985BSd (79000)4349
                        K(Zn(phen)+L)=1.10
In 50% dioxan: K1=2.49, K(Zn(phen)+L)=2.50. In 50% EtOH: K1=1.91, K=2.09
***********************************
C11H1402S
                            (4857)
2-Thenoylpivaloylmethane; C4H3S.CO.CH2.CO.C(CH3)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 30°C 75% U K1=9.63 B2=18.48 1972UDa (79003)4350
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
*******************************
C11H14O3
             HL
                            (4819)
2-Furoyl pivaloyl methane; C4H3O.CO.CH2.CO.C(CH3)3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl diox/w 30°C 75% U K1=9.31 B2=17.59 1972UDa (79009)4351
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
**********************************
                          CAS 951-82-6 (5594)
C11H1405
2-(3,4,5-Trimethoxyphenyl)ethanoic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 25°C 50% C M K1=2.21
                                  1985BSd (79014)4352
                        K(Zn(phen)+L)=2.33
Medium: 50% v/v dioxan/H2O, 0.1 M NaClO4
**********************************
Benzaldehyde:tris-buffer Schiff's base; C6H5.CH:N.C(CH2.OH)3
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
Zn++ gl alc/w 26°C 60% U K1=1.58 B2=4.31
                                     1978TPb (79028)4353
***********************
C11H15N04
                           CAS 18212-81-2 (6280)
Salicylaldehyde:tris-buffer Schiffs base;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 26°C 60% U K1=3.90 1978TPb (79040)4354
*******************
                           CAS 51786-15-3 (8749)
N-(Phenylsulfonyl)-L-methionine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl alc/w 25°C 50% C T H
                                  1987MDe (79048)4355
                         K(Zn+HL=ZnL+H)=4.57
                         K(Zn+2HL=ZnL2+2H)=9.61
Medium: 50% v/v EtOH/H2O, 0.2 M NaNO3. Data for 35, 45 C.
Enthalpy and entropy data.
**********************************
C11H15NS2
                           CAS 73732-54-4 (1253)
             HL
4-Diethylaminodithiobenzoic acid; (C2H5)2N.C6H4.CSSH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     sp oth/un 25°C ? U M
Zn++
                                  1979CDa (79055)4356
                         K(ZnL2+pyridine)=3.08
                         K(ZnL2+(4-Me-pyridine))=3.52
                         K(ZnL2+(4-Ph-pyridine))=3.32
                         K(ZnL2+(4-CN-pyridine))=1.40
*********************************
C11H15N407P
                           CAS 16719-46-3 (6026)
Tubercidin-5'-monophosphoric acid, 7-Deazaadenosine-5-monophosphoric acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=2.11
     gl NaNO3 25°C 0.10M C
                                  1988SMb (79064)4357
                        K(Zn+HL)=0.93
*******************************
                         CAS 54-71-7 (1431)
              L
C11H16N2O2
                 Pilocarpine
(3S;4R)-3-Ethyldihydro-4-((1-methyl-1H-imidazol-5-yl)methyl)-2-furanone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.50M U
                         K1=2.41 B2=4.84 1983LWa (79087)4358
                         B3=7.36
                         B4=9.65
                         B5=11.39
                         B6=12.00
```

```
EMF oth/un 25°C 0.10M U K1=2.43 B2=4.82 1968LUa (79088)4359
Zn++
                      B3=7.12
                      B4=9.38
*********************************
C11H16N2O10
           H5L
               CEDTA
                        CAS 62394-58-5 (1080)
1-Carboxy-1,2-diaminoethane-N,N,N',N'-tetraethanoic acid;
(HOOCCH2)2NCH(COOH)CH2N(CH2COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 20°C 0.10M U
                               1982GSg (79105)4360
                    K(Zn+HL)=12.44
______
Zn++ gl KNO3 20°C 0.10M U K1=12.44 1982GSh (79106)4361
*********************************
C11H16N2S2
                        CAS 771500-52-8 (9193)
2,8-Dithia-5-aza-2,6-pyridinophane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl R4N.X 25°C 0.10M C K1=7.13
                              2004BBe (79116)4362
Medium: 0.1 M Me4NO3
**********************************
C11H16N4O2S
              Cyclo-Met-His (1684)
Cvclo-(methionvl-histidvl)
___________
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.20M U K1=2.43 B2=4.32 1985KIb (79127)4363
HL
C11H16N4O5
               7-Methylinosine CAS 20245-33-4 (8134)
7-Methylhypoxanthine-9-beta-D-ribofuranoside;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 1.0M U
                               1981LVa (79134)4364
                    K(Zn+HL=ZnL+H)=-5.7
***********************************
C11H17N06
                         (3951)
N-(2'-Carboxycyclohexyl)iminodiethanoic acid; HOOC.C6H10.N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
           20°C 0.10M U K1=11.70
   gl KCl
                              1966IMa (79162)4365
**********************
                        CAS 91649-51-3 (8438)
N,N,S-Tris(carboxymethyl)methionine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
gl KCl 25°C 0.10M C
                        K1=8.78
Zn++
                                  1984RFd (79170)4366
                        K(Zn+HL)=7.93
                        *K(ZnHL)=-10.30
**********************************
                             (5908)
3(((3-Hydroxy-2,5-dimethyl-4-pyridinyl)methylene)amino)-3-phosphonopropanoic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 25°C 1.00M C
                       K1=10.58 B2=17.26 1989MSb (79185)4367
                        K(ZnL+H)=7.64
                        K(ZnHL+H)=5.17
*******************************
                 Gly-Gly-His-OMe CAS 60414-84-8 (75)
C11H17N504
              L
Glycyl-glycyl-histidine methyl ester; H2N.CH2.CO.NH.CH2.CO.NH.CH(CH2C3H3N2)COOCH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      gl KNO3 37°C 0.15M U K1=3.00 1977APa (79190)4368
                       B(ZnH-1L)=-4.12
CAS 1784-22-1 (4874)
C11H18N2O3S
d-Homobiotin
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U M K1=2.43
                                  1969SMc (79206)4369
                        K(Zn(bpy)=2.48
Medium: 50% dioxan, 0.1 M NaClO4
********************************
             H4L PDTA
C11H18N2O8
                           CAS 4408-81-5 (1655)
1,2-Diaminopropane-N,N,N',N'-tetraethanoic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ vlt KNO3 20°C 0.10M U K1=15.41 1981NSc (79232)4370
    gl KNO3
                         K1=17.70
             20°C 0.10M U
                                  1978NLb (79233)4371
______
             25°C 0.0 U
      dis none
                         K1=15.8
                                  1977MFb (79234)4372
Measured by liquid chromatography on a chelating resin
______
             25°C 0.20M C
    cal KNO3
                     Н
                                  1975CGf (79235)4373
DH(K1) = -25.9 \text{ kJ mol} -1.
Zn++ vlt KNO3 25°C 0.20M U K1=17.14
                                  19650Ga (79236)4374
Zn++ vlt KNO3 25°C 0.20M U M
                                  1965T0b (79237)4375
                        K(Co+ZnL=CoL+Zn)=-0.07
```

K(Ni+ZnL=NiL+Zn)=2.28 K(Cu+ZnL=CuL+Zn)=2.50 K(Cd+ZnL=CdL+Zn)=0.29

C11H18N2C 1,3-Diami		oane-N,N	N,N',N	N'-tetrae	thanoi		-81-5 (923) C.CH2)2N.CH2.)2.CH2
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K values	Reference Expt
Zn++	oth	KN03	20°C	0.10M U		K1=15.26	1971AWa (79397)43
Zn++	vlt	KNO3	25°C	0.20M U		K1=14.26	19650Ga (79398)43
Zn++ By calori		KNO3: DH(K1)		0.10M U 5 kJ mol-		K(Zn+HL)=7.3 258 J K-1 mol	1964ANa (79399)43
Zn++ By polaro		KNO3 /: K1=1		0.10M U		K1=15.26 K(ZnL+H)=2.5	1964LAa (79400)43
 Zn++ By glass ******	elect		1=15.2				1964LAa (79401)43
C11H18N2C 1,3-Diami		nydroxy;	H4L propar			CAS 3148 traethanoic a	
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K values	Reference Expt
Zn++	sp	KN03	20°C	0.10M U		K1=13.95	1967SMf (79511)43
Zn++ Method: H		KCl	20°C	0.10M U		K1=11.51	1966PIa (79512)43
ric criou. T	l eTec	ci oue					
 Zn++	gl	KNO3		0.10M U		K1=13.70 K(ZnL+H)=3.58	
Zn++ Zn++ Zn++ Method: e	gl gl oth	KNO3 KNO3 ophores	 20°C is	0.10M U		K(ZnL+H)=3.58 K1=13.5	1965JMb (79514)43
Zn++ Zn++ Method: e Zn++ *********************************	gl oth electro	KNO3 KNO3 pphores: KC1 ******	20°C is 20°C *****	0.10M U 0.10M U 0.10M U	 *****	K(ZnL+H)=3.58 K1=13.5 K1=12.95 ******	1965JMb (79514)43 1964DSc (79515)43 ************************************
Zn++ Zn++ Method: e Zn++ *********************************	gl oth electro	KNO3 KNO3 pphores KC1 *******	20°C is 20°C ***** L clo[9	0.10M U 0.10M U *******	 ***** adeca-	K(ZnL+H)=3.58 K1=13.5 K1=12.95 ********* CAS 7866 1(15),11,13-t	1965JMb (79514)43 1964DSc (79515)43 ************************************

```
C11H18N6O3
                Gly-Gly-His-NMe CAS 59681-15-1 (2222)
Glycyl-glycyl-L-histidyl-N-methylamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25°C 0.16M U
                       B2=6.58 1979LSa (79647)4387
     gl KNO3
Zn++
                       B(ZnHL)=10.20
                       B(ZnH-1L)=-5.02
                       B(ZnH-2L)=-12.70
********************************
                         CAS 52899-07-7 (258)
C11H20N2O3
                Pro-Leu
Prolyl-leucine; C4H8N.CO.NH.CH(CH2.CH(CH3)2).COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
            20°C 0.20M U K1=3.61 B2=7.59 1982KRc (79703)4388
    gl KCl
***********************
                           (6639)
1-Thia-4,8-diazacyclodecane-N,N'-diethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=14.41 1993WLa (79713)4389
*************************
                ICRF 198 CAS 108430-47-3 (8369)
            H2L
N,N'-(1-Methyl-1,2-ethanediyl)bis[N-(2-amino-2-oxoethyl)glycine];
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                        K1=9.499
     gl NaCl 37°C 0.15M C
Zn++
                                1982HMb (79725)4390
                       B(ZnHL)=11.919
                       B(ZnHL2)=19.061
                       B(ZnH2L2)=23.109
                       B(ZnH-1L)=0.169
********************************
                Dipivaloylmeth. CAS 1118-71-4 (363)
            HL
2,2,6,6-Tetramethyl-3,5-heptanedione; (CH3)3C.CO.CH2.CO.C(CH3)3
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 30°C 75% U K1=12.04 1977AHb (79739)4391
-----
     cal non-aq 30°C 100% U M
                                 1973DGb (79740)4392
                       K(ZnL2+py)=2.69
Medium: benzene.
      gl diox/w 30°C 75% U K1=10.47 B2=20.28 1972UDa (79741)4393
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
**********************************
```

```
C11H2004
            H2L
                          CAS 2283-16-1 (2854)
2.2-Dibutylpropanedioic acid; HOOC.C(C4H9)2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 25°C 0.10M C H K1=2.52 B2=4.51
                                   1989ABa (79762)4394
                       B(Zn(bpy)L)=8.25
DH(K1)=23 kJ mol-1, DS(K1)=125.5 J K-1 mol-1
______
Zn++ gl NaClO4 25°C 0.10M U K1=2.55 19700Va (79763)4395
*************************
C11H21N305
                          CAS 499238-77-6 (8837)
N-Hydroxy-N'-[4-(hydroxymethylamino)-4-oxobutyl]-N-methylpentanediamide;
          Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 25°C 0.20M C
                        K1=7.40
                                2004FBa (79792)4396
                       B(ZnHL)=13.93
                       B(Zn2L3)=21.1
**********************************
                2,4-DIHA CAS 709640-92-6 (9157)
            H2L
N-Hydroxy-N'-[5-(hydroxymethylamino)-5-oxopentyl]-N-methyl-butanediamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                        K1=7.97 2004FBa (79801)4397
Zn++ gl KNO3 25°C 0.20M C
                       B(ZnHL)=14.03
                       B(Zn2L3)=22.2
******************************
                       CAS 65439-22-7 (1857)
C11H21N306
            H3L
1,1,1-Tris(aminomethyl)ethane-N,N',N''-triethanoic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     gl KNO3 25°C 0.10M U K1=12.78 1977HZa (79812)4398
                       K(Zn+HL)=7.90
*******************************
                       CAS 97791-87-2 (5769)
C11H23N3O3
             HL
                Val-Lvs
Valyl-lysine;
           Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaNO3 37°C 0.10M C
Zn++
                                 1984RRc (79890)4399
                       B(ZnHL)=12.01
                       B(ZnH2L2)=24.94
*********************************
                           (7190)
1-(2-Hydroxyethyl)-1,5,9-triazacyclododecane;
-----
Metal
     Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
```

```
gl NaNO3 25°C 0.10M M T
                          K1=7.6
Zn++
                                   1994KNc (79923)4400
                         *K(ZnL) = -7.4
                         K(2ZnH-1L=Zn2H-2L2)=0.8
T: 15-35 C. K1=7.8(15 C), 7.3(35 C). *K(ZnL)=-7.7 (15 C), -7.1(35 C)
K(2ZnH-1L=Zn2H-2L2)=1.0(15 C)
********************************
                              (6392)
4,7,10-Trimethyl-1-oxa-4,7,10-triazacyclododecane;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U
                          K1=10.006 1991ACa (79929)4401
                         B(ZnH-1L)=2.54
                         K(ZnL+OH)=6.35
***********************************
C11H25N3O2
                              (7052)
1,4-Dioxa-7,11,14-triazacyclohexadecane;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl KNO3 25°C 0.10M C
                         K1=8.10 1994CDa (79936)4402
                         K(ZnLOH+H)=8.66
***********************
               L
C11H25N50
                           CAS 91328-02-8 (1605)
1,5,8,11,14-Pentaazacyclohexadecane-2-one:
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl NaClO4 25°C 0.10M M K1=10.7
                                   1990KKa (79947)4403
                         B(ZnH-1L)=2.3
C11H26N4
                            CAS 83616-30-2 (868)
1,4,7,10-Tetraazacyclopentadecane; cyclo(-(NH.CH2.CH2)4.CH2.CH2.CH2-)
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M C K1=10.70 1987HNa (79972)4404
*******************************
                            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
-----
      cal non-aq 25°C 100% U HM
                                   1981GMb (79986)4405
DH(2ZnBr2+L=ZnBrL+ZnBr3)=-151.9.Ternary complexes with C5H5N and CH3CN.
Zn++ gl KNO3 25°C 0.50M U K1=15.35
                                1980MPa (79987)4406
```

```
vlt oth/un 25°C 0.20M U H K1=15.0 1977KKa (79988)4407
DH(K1) = -34.3 \text{ kJ mol} -1
***********************************
                           CAS 124099-97-4 (5396)
N,N'-Bis(2-aminopropyl)-1,4-diazacycloheptane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M U K1=8.17 1990HNa (80003)4408
********************
                           CAS 252191-58-5 (7607)
1-(3-Hydroxypropyl)-1,4,7,10-tetraazacyclododecane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl R4N.X 25°C 0.10M C K1=13.7 1999DWa (80007)4409
                        K(ZnL=ZnH-1L+H)=-8.3
Medium: 0.1 M NEt4ClO4
**********************************
                           CAS 73396-34-6 (7856)
1-0xa-4,7,11,14-tetraazacyclohexadecane;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M U K1=11.72 1990HWa (80014)4410
*************************
C11H27N5
                           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
______
Zn++ gl NaClO4 25°C 0.20M M H K1=17.9
                                 1978KKb (80027)4411
                        B(ZnHL)=21.6
DH1=-56.5 kJ mol-1
************************************
                           CAS 65845-29-6 (4822)
2,2',2",2"'-(Trimethylenedinitrilo)tetrakis(ethylamine);
     -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
     EMF KNO3 25°C 0.10M U H K1=14.86
                                  1971PWa (80048)4412
                        K(Zn+HL)=12.25
                        K(ZnL+H)=7.65
                        K(ZnHL+L=ZnL+HL)=2.62
By calorimetry: DH(K1)=-50.3 kJ mol-1,DS=115.4 J K-1 mol-1; DH(Zn+HL)=-51.4,
DS=61.9; DH(ZnL+H)=-47.1, DS=-12.1; DH(ZnHL+L=ZnL+HL)=1.08, DS=46.4
                         K1=15.01
Zn++ EMF KNO3 20°C 0.10M U
                                  1971PWa (80049)4413
                        K(ZnL+Zn)=2.17
                        K(Zn+HL)=12.42
```

```
K(ZnL+H)=7.79
**********************************
5-(4'-Amino-2'-azabutane)-5-methyl-3,7-diazanonane-1,9-diamine;
CH3.C(CH2.NH.CH2.CH2.NH2)3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
-----
      gl KCl
             25°C 0.50M M
                          K1=17.0
                                   1991HLa (80056)4414
                         K(ZnL+H)=6.8
                         K(ZnHL+H)=5.9
***********************************
                            CAS 97-18-7 (4944)
C12H602Cl4S
Bithionol; Cl2.C6H2(OH).S.C6H2(OH).Cl2
      Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
______
      gl alc/w 25°C 75% U
                        K1=8.08 B2=13.94 1970FGa (80094)4415
Medium: 75% EtOH, 1.0 M NaClO4
**********************************
C12H7N2Cl
                            CAS 7089-68-1 (3965)
2-Chloro-1,10-phenanthroline;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      sp NaClO4 25°C 0.05M U T H K1=3.1
                                  1989LDa (80127)4416
DH(K1)=-19.4 \text{ kJ mol-1}, DS(K1)=-6 \text{ J K-1 mol-1}
Zn++ sp KCl 25°C 0.10M U K1=3.3 B2=6.60 1971IGa (80128)4417
***********************************
                            CAS 4199-89-7 (2751)
C12H7N2Cl
5-Chloro-1,10-phenanthroline;
______
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++
     gl KNO3 35°C 0.10M C M K1=4.67 B2= 9.27 1998LYa (80138)4418
                         B(ZnLA)=14.60
                         B(ZnHLA)=20.62
A is 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime.
______
      sp oth/un 25°C 0.10M U K1=5.85
                                 1959BBa (80139)4419
*******************************
                            CAS 4199-88-6 (449)
C12H7N3O2
               L
5-Nitro-1,10-phenanthroline;
-----
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 35°C 0.10M C
                       M K1=4.06 B2= 8.35 1998LYa (80164)4420
                         B(ZnLA)=14.20
                         B(ZnHLA)=20.16
```

```
A is 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime.
______
     gl KNO3 25°C 0.10M C M K1=5.40
                                  1991DAc (80165)4421
Data for ternary complexes with acetohydroxamic acid
______
Zn++ sp oth/un 25°C 0.10M U K1=5.40 1959BBa (80166)4422
********************************
                 Phenanthroline CAS 66-71-7 (144)
C12H8N2
1,10-Phenanthroline;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     vlt oth/un 20°C 0.01M C
                         K1=5.64 B2=10.95 2001DAa (80335)4423
Zn++
                        B3=15.95
Medium: 0.01 M acetate buffer. Method: differential pulse polarography.
______
Zn++ EMF non-ag 25°C 100% C H K1=5.86 B2=11.10 2001KTa (80336)4424
                        B3=15.2
Medium: DMF, 0.40 M Et4NClO4. Method: Zn/Hg electrode. By calorimetry,
DH(K1)=-26.5 \text{ kJ mol}-1, DH(B2)=-55.7, DH(B3)=-83.2.
______
Zn++ gl KNO3 35°C 0.10M C M K1=5.06 B2= 9.82 1998LYa (80337)4425
                        B(ZnLA)=14.96
                        B(ZnHLA)=20.98
A is 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime.
______
Zn++ cal non-aq 25°C 100% U H K1=3.8 B2=7.2 1995K0a (80338)4426
                        B3=10.0
Medium: 4-Methylpyridine, 0.1 M n-Bu4NClO4. DH(K1)=-25.4 kJ mol-1,
DH(B2)=-45, DH(B3)=-54.4
______
Zn++ gl KNO3 25°C 0.10M C M K1=6.40 B2=12.20 1991DAc (80339)4427
Data for ternary complexes with acetohydroxamic acid
______
Zn++ gl KNO3 25°C 0.10M C M K1=6.40 1990DAc (80340)4428
                        K(ZnL+A)=4.99
                        B(ZnAL)=11.39
HL: benzohydroxamic acid
______
Zn++ gl NaNO3 35°C 0.10M U M K1=6.25 1985KSc (80341)4429
                        K(ZnL+CMP)=3.76
H2CMP=cytidine-5'-monophosphoric acid
                       Zn++ gl diox/w 25°C 50% U M K1=7.35 B2=13.93 1984ABb (80342)4430
                        B(ZnL(PFHA))=14.00
                        B(ZnL(PTHA))=14.21
PFHA=N-phenyl-2-furylhydroxamate, PTHA=N-phenyl-2-thenohydroxamate
______
Zn++ gl NaCl04 35°C 0.10M U K1=6.32 B2=11.93 1983ABb (80343)4431
______
```

Zn++	sp	NaClO4	25°C	0.20M	U	I	K1=3.49 1983EBa (80344)4432
	en by	y the s	ame au	uthor (re-	feren	K1=5.49 B2=10.30 1980ABb (80345)4433 ce 83AB) differ by more than 1 log 32 = 11.93
Zn++	gl	KNO3	25°C	0.20M	С		K2=5.97 1979MBa (80346)4434
Zn++	_					М	K1=5.94 1979MTb (80347)4435
						М	K1=6.55 1978MSd (80348)4436 B(ZnL(ATP))=11.87
						I	K1=6.55 B2=12.35 1978QCb (80349)4437 K3=5.20
In water s	atura	ated pro	opyler 				1=6.5, K2=6.3, K3=5.1
Zn++	sp	NaClO4	25°C	1.0M	С		K1=6.52 1978YOa (80350)4438 K(Zn+HL=ZnL+H)=1.21
Zn++	EMF	KNO3	30°C	0.10M	U	 М	1977MSa (80351)4439 K(ZnL+Gly)=4.71 K(ZnL+Ala)=4.53 K(ZnL+nor-Leu)=4.34 K(ZnL+Gly+OH)=9.92
Zn++	gl	KNO3	30°C	0.10M			1977MSd (80352)4440 K(ZnL+His)=5.93
					U		K1=5.83 B2=11.60 1972BBa (80353)4441 B3=16.34
mealum: 50	% ET(JH, 0.1	5 M K∠ 	2504. 1	.n a	aqueo 	us soln: K1=6.22, B2=11.57, B3=16.59
Zn++			30°C	0.10M	U		1972STa (80354)4442 B(ZnL(en))=4.87 B(ZnLA)=5.26
A=1,2-diam	•	ropane 					
Zn++					U		K1=6.17 B2=12.08 1970EAa (80355)4443 K3=5.25
	ISE	NaNO3			U		K1=6.73 1967SPa (80356)4444
Zn++	cal .4 k	NaNO3 D mol-1	, DS=1	L8.4 J	K-:	H 1 mol	1963ANb (80357)4445 -1; DH(B2)=-62.7, DS=23.0;
		NaNO3	20°C	0.10M	U		K1=6.55 B2=12.35 1963ANg (80358)4446 K3=5.20

Zn++	dis KCl	25°C 0.10M U	K1=6.30 B2=11.95 1962IMa (80359)4447 K3=5.10
Zn++	EMF NaNO	3 20°C 0.10M U	
Zn++	gl KCl	25°C 0.10M U	K1=6.36 B2=12.00 1959BBa (80361)4449 K3=5.20
Zn++	gl KNO3	25°C 0.10M U	K2=5.9 1956YSb (80362)4450 K3=4.8
Zn++	sp oth/	un 25°C 0.10M U	K1=6.5 B2=11.95 1955IMa (80363)4451 K3=5.10
Zn++	gl KNO3	25°C 0.10M U	K1=6.43 B2=12.15 1951KLa (80364)4452 K3=4.85
**************************************	*******	**************************************	:*************************************
9,10-Phena	nthroline		(6092)
Metal	Mtd Medi	um Temp Conc Cal Fl	ags Lg K values Reference ExptNo
DH(K1)=-17	.3 kJ mol	-1, DS(K1)=-2.9 J K	K1=2.75 B2=5.44 1988GRa (80543)4453 K-1 mol-1; DH(B2)=31.15, DS(B2)=0.96 ************************************
C12H8N4O49 7-(2-Thiaz		H2L 8-hydroxyquinoline-	CAS 3385-61-8 (2586) 5-sulfonic acid;
Metal	Mtd Medi	um Temp Conc Cal Fl	ags Lg K values Reference ExptNo
Zn++ ********			B2=16.95 1977RIa (80555)4454
C12H8O2Cl2	! S	H2L (OH).S.C6H3(OH).Cl	CAS 97-24-5 (4946)
Metal	Mtd Medi	um Temp Conc Cal Fl 	ags Lg K values Reference ExptNo
Medium: 75	5% EtOH, 1	.0 M NaClO4	K1=9.07 B2=13.94 1970FGa (80561)4455
C12H9N03		HL	CAS 63098-85-1 (6279) d; C4H3O.CH:N.C6H4.COOH
Metal	Mtd Medi	um Temp Conc Cal Fl	ags Lg K values Reference ExptNo
**************************************	********	O4 25°C 0.10M U TI ********* HL xime; C5H4N.C(:N.OH	K1=3.22 1978SKg (80579)4456 ************** CAS 10354-53-7 (3970) H).C6H5

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl mixed 40°C 40% U TIH K1=7.91 B2=14.61 1965SSa (80657)4457
Medium: 40% acetone, 0.05 M NaClO4. K1=8.20(20 C),8.15(30 C); K2=6.75(20 C),
6.70(40 C). I=0-0.1. At I=0,DH(K1)=-26.3 kJ mol-1,DS=71; DH(K2)=-2.6,DS=122
***************
            HL
C12H10N2O
                        CAS 1823-47-8 (3969)
2-Salicylideneaminopyridine; (2-OH).C6H4.CH:N.C5H4N
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 25°C 50% U K1=5.8 B2=10.1 1962GNb (80669)4458
*******************************
C12H10N2O2
                          CAS 2050-14-8 (3378)
2,2'-Dihydroxyazobenzene; HO.C6H4.N:N.C6H4.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 75% U K1=19.9 1998FHa (80697)4459
Medium: 75% (v/v) dioxane/water; 0.1 M KNO3.
**********************************
                CAS 2050-15-9 (1108)
C12H10N2O2
2,4-Dihydroxyazobenzene; C6H5.N:N.C6H3(OH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=10.8? B2=22.7 1962GNb (80710)4460
***********************
                           (7497)
4-(2-Hydroxy-1-phenylazo)-benzenesulfonic acid; C6H4(OH).N=N.C6H4.SO3H
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaNO3 20°C 0.1M C
                                 1998IEa (80727)4461
                     K(Zn+HL=ZnH-1L+2H)=-13.0
******************************
                         CAS 13225-84-8 (1993)
2-Thiopicolinanilide; C5H4N.(C:S).NH.C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl alc/w 25°C 50% U K1=8.04 B2=16.1 1981MMd (80747)4462
                       B3 = 24.6
*********************************
C12H10N3OBr
                          CAS 5756-88-7 (4001)
1-(4'-Bromophenyl)-3-hydroxy-3-phenyltriazene;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 70% U K1=7.64 B2=13.94 1965PSd (80752)4463
```

```
Medium: 70% dioxan, 0.1 M KCl
**********************************
                          CAS 52756-05-6 (3998)
1-(2'-Chlorophenyl)-3-hydroxy-3-phenyltriazene;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 70% U K1=7.26 B2=13.17 1964PSg (80759)4464
Medium: 70% dioxan, 0.1 M KCl
*******************************
                          CAS 5756-86-5 (3999)
1-(4'-Chlorophenyl)-3-hydroxy-3-phenyltriazene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 70% U K1=7.41 B2=13.53 1964PSb (80765)4465
Medium: 70% dioxan, 0.1 M KCl
**********************************
                          CAS 77327-19-6 (8343)
C12H10N6O4S
2-[4-Amino-3-(1,2,4-triazolylazo)]napthol-4-sulphonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 30°C 0.10M U T K1=5.10 B2= 8.97 1981GMi (80777)4466
Also data for 40-50 C.
*********************************
           HL Thionalide CAS 93-42-5 (4002)
C12H11NOS
2-Mercapto-N-(2'-naphthyl)acetamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 20°C 75% U K1=7.8 B2=14.9 1968BKb (80815)4467
Medium: 75% dioxan, 0.1 M NaClO4
*******************************
       H5L
C12H11N09
                           (3975)
N-(2',5'-Dicarboxy-4'-hydroxyphenyl)iminodiethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U
                                1967UKa (80847)4468
                       K(Zn+HL)=9.19
                       K(Zn+H2L)=3.20
******************************
                       CAS 2824-60-4 (3972)
1-Pyridyl-3-(2'-hydroxyphenyl)-1,2-diazaprop-2-ene;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl alc/w 25°C 50% U K1=11.1 1967ANd (80867)4469
Medium: 50% MeOH, 0.1 M NaClO4
```

```
*******************************
C12H11N3OS
                          (6787)
            HL
2-Hydroxy-1-naphthaldehyde thiosemicarbazone;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 20°C 75% U K1=8.35 B2=14.94 1992SSc (80883)4470
Medium: 75% v/v dioxan/H2O and other mixtures, 0.1 M NaClO4
**********************************
C12H11N302
                         CAS 50536-09-5 (6323)
2-Hydroxy-1-naphthaldehyde-semicarbazone; HO.C10H6.CH:N.NH.CO.NH2
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 20°C 75% U K1=7.82 B2=14.25 1992SSc (80908)4471
Medium: 75% v/v dioxan/H2O and other mixtures, 0.1 M NaClO4
______
Zn++ gl diox/w 30°C 75% U K1=8.90 1975MKa (80909)4472
*******************************
C12H11N3O4S
                          (4003)
3-Hydroxy-3-phenyl-1-(4'-sulfonyl)triazene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 25°C 70% U K1=6.52 B2=11.85 1964PSf (80937)4473
Medium: 70% dioxan, 0.1 M KCl
**********************************
            HL
                          (1055)
C12H12N03Cl
2-Chloro-4-dimethylamino-benzylidenepyruvic acid; (CH3)2N.C6H3C1.CH:CH.CO.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ sp NaCl04 25°C 0.50M C K1=1.136 1984MTa (80958)4474
********************************
C12H12N06Cl
            H3L
                          (4004)
(alpha-Carboxy-4'-chlorobenzyl)iminodiethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
           20°C 0.10M U K1=9.51
                            1966IMb (80980)4475
********************************
                         CAS 4916-40-9 (4895)
1,2-Bis(2-pyridyl)-ethane; C5H4N.CH2.CH2.C5H4N
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=1.4
     gl KNO3 20°C 0.10M U
                               1970BAa (80988)4476
                      K(Zn+HL)=1.0
***********************************
C12H12N2
                          (6630)
```

```
1,2-Bis(4-pyridyl)ethane;
     -----
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ sp non-aq 25°C 100% U HM
                                1992UNa (80993)4477
                       K(Zn2A+L=Zn2AL)=2.04
                       K(ZnB+L=ZnBL)=4.51
                       K(Zn2C+L=Zn2CL)=6.97
Medium: CHCl3. A,C=substituted porphyrins, B=substituted porphyrin dimer.
                     sp non-aq ? 100% U
                     М
                                1990AHb (80994)4478
                       K(ZnA+L)=3.63
Medium: CH2Cl2. A=biphenyl capped mesoporphyrin. Data for other porphyrin
Zn complexes
***********************************
                          CAS 1134-35-6 (3375)
4,4'-Dimethyl-2,2'-bipyridyl; CH3.C5H3N.C5H3N.CH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KNO3 25°C 0.10M U
                             B2=11.0 1956YSb (81005)4479
                       K1=6.0
                      K3 = 4.0
*******************************
                          CAS 70301-52-9 (1940)
2-(Hydroxyphenyliminomethyl)pyridine; C5H4N.CH2.NH.C6H4.OH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ EMF KNO3 20°C 0.10M U K1=7.29 B2=11.50 1978CSa (81022)4480
-----
Zn++ gl diox/w 25°C 50% U K1=10.8 B2=18.8 1962GNb (81023)4481
C12H12N2O2
                         CAS 4173-74-4 (4915)
1-Phenyl-3-methyl-4-acetylpyrazol-5-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ dis NaClO4 ? 0.10M U K1=2.20 B2=5.32 1971NSb (81038)4482
********************************
C12H12N2O3
            HL Nalidixic acid CAS 389-08-2 (1401)
1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     sp oth/un 25°C 0.05M C
                                2000MPa (81059)4483
                       K1eff=3.80
Medium: 0.05 M ethanoate buffer, pH=5.5. Method: spectrofluorimetry.
______
Zn++ gl mixed 25°C 75% U
                       K1=5.43
                               1998SJb (81060)4484
Medium: 75% DMSO/H2O, 0.10 M NaClO4.
```

```
Zn++ sp KCl 25°C 0.10M U K1=3.8 1978TSb (81061)4485
**********************************
C12H12N2O4
                           CAS 63409-56-3 (8441)
3-(2-Carboxyphenylazo)pentane-2,4-dione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 25% M K1=8.45 1985EEa (81092)4486
********************
                           CAS 53-85-0 (8151)
5,6-Dichloro-1-(beta-D-ribofuranosyl)benzimidazole;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaNO3 25°C 0.50M M K1=0.86 1998KSd (81097)4487
***********************
C12H12N4
                            (3958)
1-(2'-Pyridyl)-3-(6''-methyl-2''-pyridyl)-1,2-diazaprop-2-ene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 60°C 0.0 M TI K1=5.79 B2=11.04 1969GGb (81115)4488
Medium: 0 corr. (5C): K1=6.68, B2=12.20, (15C): K1=6.40, B2=11.93, (25C): K1=6.19,
B2=11.67,(30C):K1=6.13,B2=11.54,(40C):K1=6.0,B2=11.34,(50C):K1=5.89,B2=11.15
***************************
                 AHMP
C12H12N4O2
                           CAS 62201-49-4 (7697)
4-(4-Acetophenyl)hydrazono-3-methyl-2-pyrazolin-5-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
___________
      gl alc/w 25°C 50% U T H K1=6.4 B2=12.52 1999EEa (81124)4489
Medium: 50\%(v/v) EtOH/H2O, 0.10 M KCl. DH(K1)=9.57 kJ mol-1,
DS(K1)=155 \text{ J K-1 mol-1; } DH(K2)=19.2 \text{ kJ mol-1, } DS(K2)=181 \text{ J K-1mol-1.}
*************************
C12H12N8B
                           CAS 40250-95-1 (7937)
Tetrakis(pyrazolyl)borate;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ dis non-aq 25°C 100% C
                                  2001KSb (81141)4490
                        K(Zn+2HL=ZnL2(org)+2H)=3.7
Method: solvent extraction into chloroform.
K: Zn+2HL(org)=ZnL2(org)+2H.
**********************
             H2L
                           CAS 39113-56-9 (794)
C12H12O3
1-Phenylhexane-1,3,5-trione; C6H5.CO.CH2.CO.CH2.CO.CH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
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```
Zn++ gl diox/w 30°C 75% U K1=9.19 B2=17.06 1960KFc (81152)4491
*************************
                         (6844)
3-Benzoylpenta-2,4-dione; CH3.CO.CH(CO.C6H5)CO.CH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
           25°C 0.20M U K1=4.51 1992CMd (81162)4492
Zn++ gl KCl
*************************
                      CAS 36749-37-8 (3978)
C12H13N0
8-Hydroxy-2-propylquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.0 U K1=8.96 B2=19.45 1966KUc (81174)4493
*****************************
C12H13NO3
                         (1054)
4-Dimethylamino-benzylidenepyruvic acid; (CH3)2N.C6H4.CH:CH.CO.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ sp NaClO4 25°C 0.50M C K1=1.254
                             1984MTa (81188)4494
********************************
                         (5384)
Acetylacetone-anthranilic acid Schiff base
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=4.98 B2=9.27 1971MGa (81215)4495
******************************
                        CAS 90274-75-2 (3979)
C12H13N05
N-(2'-Acetylphenyl)iminodiethanoic acid; CH3.CO.C6H4.N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=7.13 B2=11.10 1965AUa (81229)4496
C12H13N06
           H3L
                        CAS 17335-88-5 (3981)
1-(Carboxybenzyl)iminodiethanoic acid; C6H5.CH(COOH).N(CH2.COOH)2
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 20°C 0.10M U K1=9.78 1966IMb (81240)4497
C12H13N08
                         (7001)
3-Bis-(carboxymethyl)iminomethyl-2,4-dihydroxybenzoic acid;
HOOC.C6H2(OH)2CH2.N(CH2COOH)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl KCl 25°C 0.10M U
Zn++
                                 1977RTb (81248)4498
                        K(Zn+H2L)=8.8
******************************
C12H13NS
                          CAS 54421-21-5 (1034)
2-(2-Propyl)-8-mercaptoquinoline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl non-aq 25°C 100% U K1=5.9 B2=11.3 1984UBa (81252)4499
Medium: DMF, 0.1 M LiClO4
*********************************
C12H13N3
                          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
-----
    gl KNO3 20°C 0.10M C H K1=7.63 B2=12.15 1977AHc (81274)4500
Calorimetry: DH1=-32.0 kJ mol-1, DS1=37.7; DH(B2)=-54.8, DS(B2)=-48.5
______
Zn++ gl KCl 25°C 0.10M U K1=6.8 1968GRa (81275)4501
______
Zn++ gl KNO3 25°C 0.10M U K1=7.57 B2=11.93 1968RBa (81276)4502
**********************
                          CAS 76877-48-0 (1289)
2-(4',5'-Dimethyl-2-thiazolylazo)-4-methylphenol;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 60% U K1=7.42 B2=14.72 1981KTa (81298)4503
******************************
C12H13N5O4
                 Ethenoadenosine CAS 39007-51-7 (6331)
N6-Ethenoadenosine:
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                       K1=1.51
      gl NaNO3 25°C 0.10M C
                                1983SSc (81316)4504
Using proton nmr: K1=1.54
***********************************
C12H14N2O2
                           CAS 7524-52-9 (215)
Tryptophan methyl ester; C8H6N.CH2.CH(NH2).COOCH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ sp non-aq 15°C 100% U M
                                 1993MEa (81336)4505
                        K(ZnA+L)=4.01
                        K(ZnB+L)=3.21
Medium: CHCl3. A=5,15-Bis(2-hydroxy-1-naphthyl)-2,3,7,8,12,13,17,18-octa-
ethylporphine, B=5,15-Bis(2-methoxy-1-naphthyl) deriv. of A
****************************
C12H14N2O3
                            (6602)
             HL
```

```
2,3-Dehydro-N-phenylalanyl-alanine; NH2.CH(CH2.C6H5)CO.NH.C(COOH):CH2
  -----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=2.67
     gl KCl 25°C 0.10M C
                              1994JBa (81340)4506
                     B(ZnH-1L)=-4.39
                     B(ZnH-1L2)=-1.35
                     B(ZnH-2L2)=-9.84
********************************
                         (7104)
6,6'-Bis(aminomethyl)-2,2'-bipyridyl;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                Reference ExptNo
-----
                     K1=10.02
Zn++
     gl KCl 25°C 0.10M C
                              1995WRa (81349)4507
                     K(ZnL+H)=4.86
                     *K(ZnL) = -9.46
*********************************
C12H14N4O2
                       CAS 258823-84-6 (9007)
N-(2-Pyridinylmethyl)-L-histidine;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M M K1=15.31 2002YKa (81353)4508
*************************
               Sulfadimidine
                        CAS 57-68-1 (6167)
2-(4-Aminobenzolsulfamido)-4,6-dimethylpyrimidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl alc/w 25°C 50% C
                      K1 = 3.95
                             1999GAa (81362)4509
Medium: 50% EtOH/H2O, 0.10 M NaNO3.
______
     gl NaNO3 25°C 0.10M U
                              1988SSg (81363)4510
                     K(Zn(NTA)+L)=1.49
***********************************
C12H14N507P
           H2L
               e-AMP
                        CAS 361-99-9 (6334)
1,N6-Ethenoadenosine-5'-monophosphoric acid;
------
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
-----
Zn++ gl NaCl04 25°C 0.10M C K1=3.18 1984SSe (81381)4511
Cyclo-(His-His) CAS 16944-59-5 (5719)
C12H14N602
Cyclo-(Histidyl-histidyl)
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 25°C 0.10M M K1=2.55 B2= 5.45 2001GVa (81391)4512
```

```
C12H14O3
                           CAS 543-05-8 (4900)
             HL
Ethyl 2-phenylacetoacetate; CH3.CO.CH(C6H5).CO.O.CH2.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 30°C 75% U K1=9.79 1973AAa (81399)4513
*******************************
                           CAS 111451-17-3 (5895)
C12H14O14
3,6-Dioxaoctane-1,2,4,5,7,8-hexacarboxylic acid; (CH2(COOH).CH(COOH).O.CH(COOH)-)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                         K1=8.07 1989MMd (81411)4514
Zn++ gl KCl 25°C 0.10M C
                        K(ZnL+H)=4.53
                        K(ZnHL+H)=3.54
                        K(ZnH2L+H)=2.94
                        K(ZnL+Zn)=2.92
******************************
2-Pyridoyl pivaloyl methane; C5H4N.CO.CH2.CO.C(CH3)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
    gl diox/w 30°C 75% U K1=10.33 B2=19.33 1972UDa (81426)4515
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
***********************************
C12H15N02
                            (4925)
3-Pyridoyl pivaloyl methane; C5H4N.CO.CH2.CO.C(CH3)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
Zn++ gl diox/w 30°C 75% U K1=9.45 B2=18.17 1972UDa (81431)4516
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
********************************
       HL
C12H15N02
                            (4926)
4-Pyridoyl pivaloyl methane; C5H4N.CO.CH2.CO.C(CH3)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 30°C 75% U K1=9.29 B2=17.87 1972UDa (81437)4517
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
***********************************
                 Salicyl-Met CAS 65055-24-5 (6176)
C12H15N04S
             H2L
N-Salicyl-methionine; HO.C6H4.CO.NH.CH(CH2.CH2.S.CH3)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 50% U K1=3.76 B2= 7.26 1989MSi (81483)4518
                        B(ZnH-1L)=-5.66
                        K(Zn+OH+L)=8.34
```

```
Medium: 50% v/v EtOH/H2O, 0.2 M NaNO3.
*************************
1-Hydroxy-4-methylphenyl-2-methyleneiminodiethanoic acid;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
   gl KCl 25°C 0.10M U
                     K1=13.1
                             1977RTb (81490)4519
                    K(Zn+HL)=8.0
-----
Zn++ gl oth/un 25°C 0.0 U K1=13.10 1970TTb (81491)4520
C12H15N06
           H2L
                         (4931)
2-(Bis(2-hydroxyethyl)amino)-1,4-dibenzoic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
______
Zn++ gl oth/un 25°C 0.10M U K1=2.40 1973WUa (81514)4521
C12H15N06S
                       CAS 34605-45-3 (4959)
           H2L
4-Toluenesulfonyl glutamic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaNO3 25°C 0.10M C M
                              1999BMa (81519)4522
                     K(Zn+H-1L+H)=15.12
                     K(Zn+H-1L+2H)=19.56
Additional method: polarography. Also data for ternary complexes with
bipyridine.
     vlt KCl 25°C 0.10M U
                              1968RFa (81520)4523
                     B3=14.02
************************************
2-(5-Methyl-4-imidazolylazo)-4-dimethylaminophenol;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% U K1=11.7 B2=21.30 1968YTa (81533)4524
Medium: 50% dioxan, 0.1 M KNO3
**********************************
           HL Ala-Phe
                        CAS 3061-90-3 (6981)
Alanyl-phenylalanine; H2N.CH(CH3)CO.NH.CH(CH2.C6H5)COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C T K1=3.29 2000RNb (81570)4525
Data for 35 and 45 C.
------
Zn++ gl KNO3 20°C 0.5M U K1=2.95
                             1974KHb (81571)4526
```

```
************************************
C12H16N2O8
             H4L
                             (6460)
1,4-Diaminobut-2-yne-N,N,N',N'-tetraethanoic acid;
(HOOC.CH2)2N.CH2.CC.CH2.N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
 -----
                        K1=9.30 1979TSa (81598)4527
Zn++ gl KCl 25°C 0.10M U
                        K(Zn+HL)=6.48
                        K(Zn+ZnL)=5.8
***********************************
                               *********************
C12H16N2O8S4
                            (7852)
N,N'-Bis(dithiocarboxy)-N,N'-bis-1,1'-(1,2-dicarboxyethyl)ethylenediamine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KNO3 20°C 0.1M U K1=14.5 1999SAa (81613)4528
CAS 21575-88-6 (718)
             L PgHisOMe
L-Pyroglutamyl-histidine methyl ester;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       K1=2.12
    gl KCl 25°C 0.20M C
                                 1989BKa (81622)4529
                        K(Zn+HL=ZnL+H)=-4.23
**********************************
                 e-ATP
C12H16N5O13P3
            H4L
                           CAS 37482-17-0 (5714)
1,N6-Ethenoadenosine 5'-triphosphoric acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        K1=5.44
Zn++ gl NaNO3 25°C 0.10M U
                                 1986SSb (81627)4530
                        K(Zn+HL)=3.26
                        K(ZnL+H)=4.3
                        *K(ZnL(H20))=-9.0
********************************
             HL
                His-His
                          CAS 306-14-9 (846)
Histidyl-histidine; H2N.CH(CH2.C3H3N2).CO.NH.CH(CH2.C3H3N2).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C
                        K1=5.79 B2= 9.18 2002VVa (81652)4531
                        B(ZnHL)=12.02
                       B(ZnH-1L)=-3.18
_____
Zn++ gl KNO3 37°C 0.15M U H K1=4.97 B2=9.61 1976APa (81653)4532
                        K(Zn+H2L)=2.31
                        K(Zn+HL)=4.06
                        K(Zn+2HL)=7.53
                        K(2ZnL=Zn2L2)=3.37
```

```
K(Zn+HL+L)=8.99, K(ZnHL+ZnL)=2.96
-----
            25°C .058M U T K1=4.30 B2=8.20 1961SMa (81654)4533
      gl KCl
At 0 C K1=10.50, K2=6.30 ?
**********************************
                          CAS 5581-75-9 (5590)
6-Phenylhexanoic acid; C6H5.(CH2)5.COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% C I M K1=2.47 1985BSd (81665)4534
                       K(Zn(phen)+L)=2.50
In 50% EtOH: K1=1.96, K(Cu(phen)+L)=2.10
*******************************
C12H16O4S6
             L
                          CAS 66785-63-5 (7805)
1,4,7,10,13,16-Hexathiacyclooctadecane-2,3,11,12-tetraone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ con none 25°C 0.0 C T H K1=4.76
                                1998GRa (81687)4535
DH(K1) = -45.8 \text{ kJ mol} -1, DS(K1) = -62 \text{ J K} -1 \text{ mol} -1.
Also data for 15-45 C.
*******************************
                          CAS 34282-27-4 (3393)
N-(2,6-Diethylphenyl)mercaptoacetamide; HS.CH2.CO.NH.C6H3(CH2.CH3)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=10.18 B2=19.25 1961MAe (81709)4536
****************************
                           (6445)
C12H17N3O10
                Asp-Asp-Asp
Aspartyl-aspartyl-aspartic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                        K1=4.55
Zn++
    gl KNO3 25°C 0.10M C
                                 1995KLa (81734)4537
                       B(ZnH-1L)=-4.58
                       B(ZnH-2L)=-13.46
**********************
C12H17N4OC1S
             HL Vitamin B1 CAS 59-43-8 (2777)
Thiamine, Aneurine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 35°C 0.10M C K1=2.30 1999DSb (81743)4538
_____________
      gl KNO3 35°C 0.10M U M K1=2.30 B2=4.10 1989SRc (81744)4539
                       K(ZnL+thymine)=4.97
                       K(ZnL+uracil)=4.35
*********************************
```

C12H17N4O4 Thiamine o		phospho	H2L ric ad	cid, Aneurine	CAS 495-23 monophosphoric a	· · · · · · · · · · · · · · · · · · ·
Metal	Mtd	Medium	Temp	Conc Cal Flag	gs Lg K values	Reference ExptNo
Zn++	gl	KNO3	35°C	0.10M C	K1=3.54	1997PSb (81759)4540
Zn++	gl	NaCl	23°C	0.15M U	K1=2.35	1989DBb (81760)4541
Zn++	gl	KNO3	45°C	0.10M U T	K1=3.24 K(ZnL+H)=2.46	1981TTa (81761)4542
5 C: K1 =	2.93				K(ZIIL+H)-2.40	
				0.10M U	K1=3.54 K(Zn+HL)=2.73	1978KBa (81762)4543
C12H18N2O5	S		H2L	************ lfopropylamino	CAS 80459-	15-0 (1595)
Metal	Mtd	Medium	Temp	Conc Cal Flag	gs Lg K values	Reference ExptNo
**************************************	****	******	***** H2L	***********	*******	.0.06 1988YSc (81801)4544 ******** 52-8 (5829) oic acid;
Metal	Mtd	Medium	Temp	Conc Cal Flag	gs Lg K values	Reference ExptNo
Medium: 0.	10 M	Me4NNO	3.			2002DCb (81827)4545
C12H18N2O8	}		H4L		(8011) nethanoic acid	******
Metal	Mtd	Medium	Temp	Conc Cal Flag	s Lg K values	Reference ExptNo
					K1=10.80 K(Zn+HL)=7.52 K(ZnL+Zn)=5.4	
**************************************		*****	***** H5L	**********		**************************************
1-Carboxy-	1,3-		propai	ne-N,N,N',N'-t (CH2COOH)2	etraethanoic aci	• •
Metal	 Mtd	Medium	Temp	Conc Cal Flag		Reference ExptNo
Zn++	gl	KN03	25°C	0.10M U	K1=16.94 K(Zn+H2L)=4.62 K(Zn+HL)=10.31 B(Zn2L)=19.49	1988MGa (81906)4547

```
K(ZnHL+H)=2.92
*********************************
           H3L
               Cocarboxylase T CAS 136-09-4 (894)
Thiamine pyrophosphoric acid, Aneurine pyrophosphoric acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 25°C 0.20M U
                              2000MLa (81926)4548
                      K(2Zn+2HL+2H=Zn2H4L2)=20.66
                      K(2Zn+2HL+H=Zn2H3L2)=15.50
                      K(2Zn+2HL=Zn2H2L2)=10.11
              -----
Zn++ gl KNO3 35°C 0.10M C M K1=3.70 1999PSb (81927)4549
Ternary complexes with many aminoacids.
-----
Zn++ gl NaCl 23°C 0.15M U K1=4.54
                              1989DBb (81928)4550
-----
Zn++ gl KNO3 45°C 0.10M U T
                     K1=4.20
                              1981TTa (81929)4551
                      K(ZnL+H)=2.76
5 C: K1 = 3.85
______
    gl KNO3 35°C 0.10M U
                      K1=4.55
                              1978KBa (81930)4552
7n++
                    K(Zn+HL)=2.89
******************************
                        CAS 43101-37-7 (2935)
Tetraglycine-N,N-diethanoic acid; (HOOC.CH2)2N.CH2.CO.Gly-Gly-Gly-OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                      K1=7.00
                            1974MMb (81949)4553
     gl KNO3 25°C 0.10M C
                      K(ZnL+H)=3.41
************************************
                          (5424)
2-(2-Pyridyl)-1,3-dithioethyl-2-propanol; C2H5.S.CH2.C(OH)(C5H4N).CH2.S.C2H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% U K1=1.20
                              1981CBa (81973)4554
********************************
C12H19N06
                          (3991)
N-(2'-Carboxycycloheptyl)iminodiethanoic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 20°C 0.10M U K1=12.28 1966IMa (81978)4555
*************************
C12H20N2O2
                        CAS 6310-76-5 (3387)
4,4'-Ethylenedi-iminodi(pentan-2-one);
______
```

Metal	Mtd N	Medium	Temp Con	c Cal	Flags	Lg	K values	F	Reference	ExptNo
Medium: 0.	2 M K	Cl in 3	3:7 v/v H	20/Et	OH		******		·	·
C12H20N2O6 Azetidine-			H3L (4-azahe	ptane [.]	- 1, 5-d:	icar	CAS 111652 boxylic acid		(8144)	
Metal	Mtd N	 Medium	Temp Con	c Cal	Flags	Lg	K values	F	Reference	ExptNo
	***** obutar	****** ne-N,N,	******* H4L N',N'-te	***** traetl	****** nanoic	****	10.5 ******** CAS 1798-1	****	******	
Metal	Mtd N	1edium	Temp Con	c Cal	Flags	Lg	K values	F	Reference	ExptNo
**************************************	*****	******	******* H4L	****	*****	****	18.23 ********* CAS 40623-4 acid); (CH	**** 42-5	(1101)	******
Metal	Mtd N	1edium	Temp Con	c Cal	Flags	Lg	K values	F	Reference	ExptNo
Zn++	ISE k	KNO3	25°C 0.1	0M U		K1=	10.25	1972	GBe (820	47)4559
**************************************	*****	******	******* H4L	****	*****	***	7.15 ********* CAS 61368-0	**** 60-3	******	
Metal	Mtd N	 Medium	Temp Con	c Cal	Flags	Lg	K values	 R	Reference	ExptNo
Zn++	vlt k	KN03	20°C 0.1	0M U		K1=	16.22	1976	SNKa (821	18)4561
**************************************	*****	******	******* H4L	****	*****	****	16.02 ********* CAS 40623-4 anoic acid;	****	******	
Metal	Mtd N	Medium	Temp Con	c Cal	Flags	Lg	K values	F	Reference	ExptNo
							14.5 *********			
C12H20N2O8			H4L				CAS 2458-5 d; (HOOC.CH	8-4	(922)	
Metal	Mtd N	Medium	Temp Con	c Cal	Flags	 Lg 	K values	 R	Reference	ExptNo

Zn++ cal KNO3 DH(K1)=-14.5 kJ mol-		-1	1964ANa (82196)4564
_		K(Zn+HL)=7.42	1964LAa (82197)4565
C12H20N2O8	H3L Mugineic a	cid CAS 69199)amino]-b-hydrox	**************************************
Metal Mtd Mediu	m Temp Conc Cal Fla		Reference ExptNo
	**************************************	*************** CAS 868-4 anoic acid;	1981STc (82245)4566 ***********************************
Metal Mtd Mediu			Reference ExptNo
	20°C 0.10M U	K(Zn+HL)=2.57	
			1966DMa (82263)4568
Zn++ oth KNO3 Method: electrophore		K1=18.5	1965JMb (82264)4569
			1964MNa (82265)4570 *******
C12H20N2O8 meso-2,3-Diaminobuta (HOOC.CH2)2N.CH(CH3)	H4L ne-N,N,N',N'-tetrae	CAS 22968 thanoic acid;)2	-57-6 (3992)
	•	gs Lg K values	Reference ExptNo
Zn++ ISE KNO3			
Zn++ vlt KNO3			1966DMa (82366)4572
Zn++ oth KNO3 Method: electrophore	20°C 0.10M U	K1=18	1965JMb (82367)4573
Zn++ vlt KNO3	20°C 0.10M U	K1=17.35	1964MNa (82368)4574 *******
C12H20N2O8S 2,2'-Thiobis(ethylim	H4L TEDTA	CAS 923-74	4-0 (3394)
Metal Mtd Mediu	m Temp Conc Cal Fla	gs Lg K values	Reference ExptNo

```
gl KNO3 20°C 0.10M U H K1=13.44
Zn++
                                1964ANa (82438)4575
                       K(Zn+HL)=8.05
By calorimetry: DH(K1)=-15.5 kJ mol-1, DS=205 J K-1 mol-1
_____
   gl KCl 20°C 0.10M U K1=13.17
                                1964PCa (82439)4576
***********************************
                     CAS 923-73-9 (2112)
       H4L EEDTA
C12H20N2O9
Oxa-bis(ethyleneimino)diethanoic acid; ((HOOC.CH2)2N.CH2.CH2)20
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      cal KNO3 25°C 0.10M U H
                                1965WHa (82505)4577
DH(K1)=-31.8 kJ mol-1, DS=194 J K-1 mol-1
      gl KNO3 20°C 0.10M U H K1=15.3
7n++
                                1964ANa (82506)4578
                       K(Zn+HL)=8.5
By calorimetry: DH(K1)=-25.0 kJ mol-1, DS=207 J K-1 mol-1
______
Zn++ gl KCl 20°C 0.10M U K1=15.25 1964PCa (82507)4579
_____
Zn++ EMF KNO3 25°C 0.10M U K1=15.3 1960HRa (82508)4580
************************
C12H20N2O10
            H4L
                          CAS 10258-50-1 (3993)
(2,3-Dihydroxytetramethylenedinitrilo)tetraethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ oth oth/un ? ? U
                                1967LDa (82579)4581
                       B(Zn2L)=19.84
Method: high-frequency titration.
************************************
3,7,10,16-Tetraazabicyclo[10.3.1]hexadeca-1(16),12,14-triene;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 25°C 0.10M C
                        K1=14.27
                                1993CDa (82603)4582
                       K(Zn(OH)L+H)=7.83
********************************
C12H20N4O3
             HL Leu-His
                         CAS 38062-71-4 (5768)
Leucyl-histidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl NaNO3 37°C 0.10M C
                                1984RRc (82611)4583
                       B(ZnHL)=10.01
                       B(ZnHL2)=13.65
                       B(ZnH-1L)=-3.28
***********************************
C12H20N4O6
            H2L
                           (7078)
```

```
1,4,7,10-Tetraazacyclododeca-2,9-dione-4,7-diethanoic acid;
     .-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    nmr none 23°C 0 U
                                1997IMa (82618)4584
Zn++
                       K(ZnL+HA)=2.1
                       K(ZnL+B)=2.0
HA=histamine, B=imidazole
______
                  -----
                       K1=8.98
      gl KCl 25°C 0.10M C
                                1995IOb (82619)4585
Zn++
                       K(ZnL+H)=1.47
                       K(ZnL=ZnH-1L+H)=-9.56
                       K(ZnH-1L=ZnH-2L+H)=-11.94
**********************************
C12H20N60
                          (5462)
1,9-Bis(4-imidazolyl)-2,8-diaza-5-oxanonane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=9.52
                                1982BTb (82633)4586
**********************************
C12H2008N2
            H4L
                           (6908)
2-Methyl-1,2-diaminopropane-N,N,N'N'-tetraethanoic acid;
(HOOC.CH2)2N.CH2.C(CH3)2.N(CH2.COOH)2
_____
    Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
-----
Zn++ gl KNO3 20°C 0.10M C K1=17.00 1978NLa (82664)4587
***********************************
C12H21N06
            H3L
                           (7209)
1-Carboxy-1-aminoheptane-N,N-diethanoic acid; HOOC.CH(C6H13)N(CH2.COOH)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 20°C 0.10M U K1=10.21
                               1985LBc (82688)4588
******************************
C12H21N3O6
            H3L NOTA
                           (5589)
1,4,7-Triazacyclononane-N,N',N"-triethanoic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
-----
      gl KNO3 25°C 0.10M U K1=18.3 1975HTa (82722)4589
By competition with Cd ion.
H3L
                         CAS 111769-28-9 (8145)
C12H21N306
Azetidine-2-carboxy-1-(4-azaheptane-1-amino-1,5-dicarboxylic acid);
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=15.4
                               1989ARa (82746)4590
```

For racemi	c ison	mer: K1	L=12.3	3					
Medium: 0.	10 M k	KC104.		0.10M M		K1=14.7			(82747)4591
**************************************			H3L			CAS 3		******* 9-6 (49	·********* 936)
Metal	Mtd N	 Medium	Temp	Conc Cal	Flags	Lg K val	ues	Refer	rence ExptNo
Zn++	gl k			0.10M U		K1=13.41 K(Zn+HL)=1	7.87		(82756)4592
**************************************			***** HL	******* His-Ly		******** CAS			·************ '70)
Metal	Mtd N	Medium	Temp	Conc Cal	Flags	Lg K val	ues	Refer	rence ExptNo
Zn++	gl N	NaNO3	37°C	0.10M C		B(ZnHL)=14 B(ZnH2L2):	4.78	1984RRc	(82764)4593
**************************************			L				***** 870)	*****	*********
Metal	Mtd N	Medium	Temp	Conc Cal	Flags	Lg K val	ues	Refer	rence ExptNo
Zn++ DH(K1)=-42	cal k		25°C	0.1M C	Н	K1=13.30		1982TMc	(82773)4594
Zn++	cal H	KN03	25°C	0.10M C		DH1=-46.2			(82774)4595
Zn++		KNO3		0.10M C		K1=13.303 K(ZnL+H)=2	2.69		(82775)4596
**************************************			H2L			(63	394)	****	******
Metal	Mtd N	Medium	Temp	Conc Cal	Flags	Lg K valu	ues	Refer	rence ExptNo
Zn++ Medium: 0.	1 M Me	e4NNO3				K1=12.27			(82786)4597 *********************************
C12H22N2O6 7,10-Diaza			H2L			(60	641)		
Metal	Mtd N	Medium	Temp	Conc Cal	Flags	Lg K val	ues	Refer	rence ExptNo
Zn++	gl F	R4N.X	25°C	0.10M C		K1=12.52	- 	1992ADa	(82800)4598

```
Medium: 0.1 M Me4NNO3
************************************
            H2L
                 ICRF 243
DL-NN'-Dicarboxamidomethyl-NN'-dicarboxymethyl-2,3-diaminobutane;
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      gl NaCl 37°C 0.15M U
                                 1985HCa (82830)4599
                        K1=11.720
                       B(ZnH-1L2)=4.254
*********************************
                          CAS 83266-80-2 (8370)
                 ICRF 226
N,N'-(1-Ethyl-1,2-ethanediyl)bis[N-(2-amino-2-oxoethyl)glycine];
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                               1982HMb (82839)4600
Zn++ gl NaCl 37°C 0.15M C
                        K1=11.219
                        B(ZnHL)=12.941
                        B(ZnHL2)=20.849
                        B(ZnH2L2)=24.316
**********************************
            H2L
                 ICRF 236
                           (5771)
meso-NN'-Dicarboxamidomethyl-NN'-dicarboxymethyl-2,3-diaminobutane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                        K1=9.904
      gl NaCl 37°C 0.15M U
                                 1985HCa (82848)4601
                       B(NiHL) = 11.349
******************************
                            (6393)
1-0xa-4,7,10-triazacyclododecan-4,10-diethanoic acid;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl R4N.X 25°C 0.10M C K1=16.12 1992ADa (82967)4602
Medium: 0.1 M Me4NNO3
*******************************
            H2L
                           CAS 499238-78-7 (8836)
N-Hydroxy-N'-[5-(hydroxymethylamino)-5-oxopentyl]-N-methylpentanediamide;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl KNO3 25°C 0.20M C
                        K1=7.54
                                 2004FBa (82982)4603
                        B(ZnHL)=14.02
                        B(Zn2L3)=21.7
CAS 499238-79-8 (8835)
C12H23N3O5
            H2L
N-Hydroxy-N'-[6-(hydroxymethylamino)-6-oxohexyl]-N-methylbutanediamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ gl KNO3 25°C 0.20M C
                      K1=8.74
                               2004FBa (82992)4604
                      B(ZnHL)=14.00
                      B(Zn2L3)=23.48
***********************************
C12H23N306
                        CAS 117659-73-1 (8147)
1-Amino-8-methyl-1,5,9-tricarboxy-4,8-diazadecane;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=13.7 1989ARa (82999)4605
*************************
C12H23N5
                         (6570)
2-(4-Imidazoyl)-1,5,9-triazacyclododecane;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KNO3 25°C 0.10M C K1=11.7 1991KKb (83008)4606
****************************
                        CAS 67483-65-2 (3962)
1,1'-Diaminobicyclohexyl;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 20°C 0.10M U K1=6.35 B2=13.30 1965TSc (83014)4607
Leu-Leu CAS 36077-41-5 (974)
Leucyl-leucine; H2N.CH(CH2.CH(CH3)2).CO.NH.CH(CH2.CH(CH3)2).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KCl 20°C 0.20M U K1=2.76 B2=5.27 1982KRc (83037)4608
______
Zn++ gl KNO3 20°C 0.5M U K1=3.00 1974KHb (83038)4609
*******************************
C12H24N2O4 L
                         (6669)
Hexamethylene-N,N'-diethyldihydroxamic acid; CH3CH2N(OH).CO.(CH2)6.CO.N(OH)CH2CH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KCl
           25°C 0.20M C
                               1993KNa (83048)4610
                      B(ZnHL)=14.64
                      B(Zn2L2)=19.00
*******************************
                        CAS 46746-77-4 (107)
5,12-Dimethyl-1,4,8,11-tetraazacyclotetradeca-4,11-diene;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ vlt NaClO4 25°C 0.10M U T H K1=15.00 1981YPa (83063)4611
****************************
```

C12H24N4O4 1,4,8,11-Tetraazacycl	H2L otetradecane-6,13-di	(7522) Icarboxylic acid	
Metal Mtd Medium	Temp Conc Cal Flags	S Lg K values	Reference ExptNo
Zn++ gl KCl	25°C 0.50M U	K1=26.3 K(ZnL+H)=5.4 K(ZnHL+H)=4.8 *K(ZnL)=-10.5	1997BLd (83100)4612
**************************************	L 18-Crown-6	CAS 17455-	**************************************
Metal Mtd Medium	Temp Conc Cal Flags	Lg K values	Reference ExptNo
Zn++ con mixed Medium: 90% v/v DMSO/		K1=1.61	2003ISa (83178)4613
Zn++ con alc/w Medium: 40% v/v EtOH/		K1=1.59	2001ISa (83179)4614
Zn++ con none	25°C 0.0 C	K1=0.53	2000KTa (83180)4615
Zn++ nmr non-aq Competitive method by 50% w/w AN/nitrobenze	7Li nmr. Medium: ac	cetonitrile (AN)	. Also data for
Zn++ vlt alc/w Medium: methanol, 0.1 ************************************	0 M Et4NI or Bu4NClC ********* L	04. Method: pola ************************************	,
Metal Mtd Medium	Temp Conc Cal Flags	Lg K values	Reference ExptNo
Zn++ gl R4N.X ************************************	**************************************	*************** CAS 23978- cane;	**************************************
Metal Mtd Medium	Temp Conc Cal Flags		Reference ExptNo
Zn++ gl R4N.X Medium: 0.05 M Me4NCl			
Zn++ gl R4N.X Medium: 0.10 M Et4NCl	25°C 0.10M C 04.	K1=3.77	
Zn++ gl R4N.X			

Zn++ Medium: 95		25°C 95% C L M Me4NCl	K1=2.5	1981ANa (83759)4622
Zn++ Medium: Me		25°C 100% C Et4NC104	K1=4.84 B(ZnHL)=13.86	1979SAa (83760)4623
C12H26N4O	********		(7316)	*******
Metal	 Mtd Mediun	Temp Conc Cal Fla	gs Lg K values	Reference ExptNo
C12H26N12	********		**************************************	1987HEa (83942)4625 ************************************
Metal	Mtd Medium	n Temp Conc Cal Fla	gs Lg K values	Reference ExptNo
C12H26S		20°C 0.10M U ********* L C6H13.S.C6H13		1981ESa (83967)4626 ***********************************
Metal	Mtd Medium	Temp Conc Cal Fla	gs Lg K values	Reference ExptNo
Zn++ Medium: ac	etone, Bu4N		K1=-0.16	1986MMb (84030)4627 ************
C12H27N3		H3L 9-triazacyclododeca	CAS 69881	-53-4 (2424)
Metal	Mtd Medium	n Temp Conc Cal Fla	gs Lg K values	Reference ExptNo
Zn++		25°C 0.10M U	K1=7.68 K(ZnL=ZnLOH+H)	1979RJa (84051)4628 =-9.56 *******
C12H27N3O2		L Lazacycloheptadecar	(7053)	
Metal	Mtd Mediun	n Temp Conc Cal Fla	gs Lg K values	Reference ExptNo
	gl KNO3 *******			1994CDa (84056)4629 6 ********
C12H27N3O3 1,4,7-Tris	(hydroxyeth	L THETAC nyl)-1,4,7-triazacy 	(7199) clononane	

Metal	Mtd	Medium	Temp	Conc C	Cal	Flags	Lg K	values	Refe	erence	ExptNo
Zn++ ********* C12H27N3S3 1,4,7-Tris	****	******	***** HL	****** TACN	**** \ -TM	*****	****	(6952)		•	•
Metal	Mtd	Medium	Temp	Conc C	Cal	Flags	Lg K	values	Refe	erence	ExptNo
Zn++						E	3 (ZnHl 3 (ZnHž	3.9 L)=34.1 2L)=40.4		•	·
********* C12H27N5O2 6-Methyl-1			HL					(7521)			*****
Metal	Mtd	Medium	Temp	Conc C	Cal	Flags	Lg K	values	Refe	erence	ExptNo
Zn++	gl	KCl	25°C	0.50M	U	H H	〈(ZnL- 〈(ZnHl	4.7 +H)=6.6 L+H)=5.0 L)=-10.8	1997BLc	d (841	09)4632
******		*****		*****	****		•	********	******	*****	******
C12H28N2O9 1,4,10-Tri		7,13-dia	H4L azacyo	clopent	ade	cane-7	7,13-0	(7242) diyldimeth	nylenedip	hosph	onic aci
 Metal	 Mtd	Medium	Temp	Conc (al	Flags	Lg K	values	Refe	erence	ExptNo
Zn++	gl	R4N.X	25°C	0.10M	C	E E	3 (ZnHI 3 (ZnHi 3 (Zn2I	3.10 L)=19.84 2L)=25.48 L)=16.10 H-1L)=8.39		a (841	 46)4633
Medium: 0.	10 M	[Et4N]	NO3.				•	·			
Zn++	gl	R4N.X	25°C	0.10M	U	ŀ	((Zn+l	3.25 HL)=6.66 H2L)=5.56	1996BJa	a (841	47)4634
Medium: 0. ******			*****	k******	k**⊁		·	·	<********	k*****	*****
C12H28N4 1,4,7,10-T			L				(CAS 76282-			. ac ac ac ac ac ac ac ac ac
Metal									Refe	erence	 ExptNo
 Zn++	_							 4 . 04 *******		•	•

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Refer	rence ExptNo
Zn++	gl	NaNO3	25°C	0.10M	I U		K1=13	3.02	1991LHa	(84191)4636
Zn++ DH(2ZnBr2+ Medium: CH	L=Znl	non-aq BrL+ZnBı					comple	exes with		(84192)4637 d CH3CN.
Zn++ DH(K1)=-29 ******	.7 k	-	, DS(k	(1)=15	0.1	J K-1	mol-1	_		(84193)4638 ******
C12H28N4 1-(3-Amino	prop	yl)-1,5	L ,9-tri	iazacy	clo	dodeca	ne;	(6828)		
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Refer	rence ExptNo
Zn++ ******** C12H28N40 1-(2-Hydro	****		***** L	*****	****	*****	*****	********* (7305)		(84200)4639 *******
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Refer	rence ExptNo
Zn++	gl	R4N.X	25°C	0.10M	1 C).3 ·1L)=2.0	1997RWa	(84205)4640
Medium: Et			*****	<****	***	*****	*****	*******	·******	******
C12H28N4O2 1,10-Dioxa		,13,16 -†	L tetraa	azacyc	1000	ctadec		CAS 296-36	5-6 (2472	2)
Metal					C-1					
	Mtd	Medium	Temp	Conc	сат	Flags	Lg K	values	Refer	rence ExptNo
Zn++ Distributi	dis	non-aq f ZnA2 ⁻	25°C from H	100% 100 in	C ito (I CH2Cl2	K(Zn+A	A+L(org)=Z nitrate.	2004CCa ZnAL(org) For the	(84221)4641)=11.05 N-tetra-
Zn++ Distributi	dis on o	non-aq f ZnA2 tive, K	25°C from H	100% 120 in 52. Di	C ito (I CH2Cl2 ibutio	K(Zn+A . A is n into K1=10	A+L(org)=2 nitrate. CHCl3, k	2004CCa ZnAL(org) For the (=11.88; k	(84221)4641)=11.05 N-tetra-
Zn++ Distributi	dis on or riva gl	non-aq f ZnA2 f tive, K NaNO3	25°C from H '=11.6	100% 120 in 52. Di 0.10M	C (stri	I CH2Cl2 ibutio	K(Zn+A . A is n into K1=10	A+L(org)=Z nitrate. CHCl3, k).51	2004CCa ZnAL(org); For the <=11.88; k	(84221)4641)=11.05 N-tetra- ('=12.62.
Zn++ Distributi benzyl- de Zn++ Zn++	on orivativation gl	f ZnA2 five, K NaNO3 NaNO3 R4N.X	25°C from H '=11.6 25°C 25°C 25°C L	100% H2O in 52. Di 0.10M 0.10M 0.10M *****	C stri	I CH2Cl2 ibutio	K(Zn+A A is n into K1=10 K1=10 K1=10 K1=10 K1=10	A+L(org)=2 5 nitrate. 6 CHCl3, k 7 CHCl3, k	2004CCa ZnAL(org); For the K=11.88; H 1990WHa 1989HBa 1983LCa ********	(84221)4641)=11.05 N-tetra- ('=12.62. (84222)4642 (84223)4643 (84223)4644 (84224)4644
Zn++ Distributi benzyl- de Zn++ Zn++ Zn++ **********************************	on orivativation gl gl ****	f ZnA2 f tive, K NaNO3 NaNO3 R4N.X	25°C from H =11.6 25°C 25°C ****** L Tetraa	100% H2O in 52. Di 62. Di 0.10M 0.10M ******	C stri	I CH2Cl2 ibutio ******	K(Zn+A . A is n into K1=10 K1=10 ***** (ane;	A+L(org)=Z 5 nitrate. 6 CHCl3, k 7.51 7.51 7.90 8************************************	2004CCa ZnAL(org); For the K=11.88; H 1990WHa 1989HBa 1983LCa ********* 71-6 (58	(84221)4641)=11.05 N-tetra- ('=12.62. (84222)4642 (84223)4643 (84223)4644 (84224)4644

```
B(ZnH2L)=20.28
```

```
**********************************
                           CAS 82583-20-6 (97)
1,4,7,11,14-Pentaazacycloheptadecane; cyclo(-(NH.C2H4)3.CH2(NH.C2H4)2.CH2-)
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
 Zn++ gl NaCl04 25°C 0.20M M H K1=15.8
                                 1978KKb (84257)4646
                        B(ZnHL)=20.1
DH1=-53.1 kJ mol-1
************************************
C12H30N3O9P3
             H6L
                 DOPHET
                           CAS 123325-12-2 (227)
1,4,7-Tris(beta-dioxyphosphorylethyl)-1,4,7-triazacyclononane;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3
                         K1=17.0
             25°C 1.0M U
                                  1988MKa (84274)4647
                        K(Zn+HL)=12.9
                        K(Zn+H2L)=11.1
                        K(Zn+H3L)=6.9
*********************************
C12H30N4
                            (6740)
Tris(2-(dimethylamino)ethyl)amine; N(CH2CH2.N(CH3)2)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaClO4 25°C 1.0M U T H
                         K1=9.68
                                  1995CXa (84299)4648
                        *K(ZnL(H2O))=-8.86
Data for 35 and 45 C. By calorimetry, DH(*K1)=25.5 kJ mol-1, DS(*K1)=-84
J K-1 mol-1.
______
    gl NaClO4 25°C 1.00M C
                         K1=9.75
                                 1994AGa (84300)4649
                        K(Zn+HL)=5.31
******************************
C12H30N6
                          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
-----
Zn++ gl NaClO4 25°C 0.15M C
                        K1=18.70
                                  1989BBa (84316)4650
                        B(ZnHL) = 22.63
______
      gl NaCl04 25°C 0.20M U H K1=17.8 1980KKb (84317)4651
DH=-51.9 kJ mol-1, DS=167 J K-1 mol-1
******************************
                           CAS 212697-43-3 (9176)
C12H30N6
1,4,7-Tris(2-aminoethyl)-1,4,7-triazacyclononane;
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ gl R4N.X 25°C 0.10M C
                        K1=21.28
                                  2004TBa (84366)4652
                        K(ZnL+H)=4.13
                        K(ZnL+OH)=3.4
Medium: 0.1 M N(CH3)4Cl
**********************************
                            (6409)
6,13-Dimethyl-1,4,8,11-tetraazacyclotetradecane-6,13-diamine;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=14.9 1997BLd (84371)4653
Zn++ gl KCl 25°C 0.50M U
                        K(ZnL+H)=6.8
                        K(ZnHL+H)=6.0
                        *K(ZnL)=-10.5
------
                        K1=16.1 1994LLb (84372)4654
Zn++ gl KCl 25°C 0.50M U
                        K(ZnL+H)=5.8
                        K(ZnHL+H)=5.2
                        K(ZnH-1L+H)=9.6
Data are for the syn isomer. For the anti isomer, K1=14.9, K(ZnL+H)=6.8,
K(ZnHL+H)=6.0, K(ZnH-1L+H)=10.5.
______
   gl KCl 25°C 0.50M U K1=15.0 1991BLa (84373)4655
*********************************
            H4L
C12H32N408P4
                            (7111)
1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetrayltetramethylenetetrakis(phosphinic
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        K1=14.60 1995BLa (84384)4656
     gl KNO3 25°C 0.10M C
                       B(ZnHL)=17.22
**********************************
C12H32N4O12P4
            H8L
                           CAS 91987-74-5 (229)
                 DOTPH
1,4,7,10-Tetraazacyclododecane-N,N',N",N"'-tetramethylenephosphonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 1.0M U
                         K1 = 24.8
                                 1984KMb (84397)4657
                        K(Zn+HL)=19.9
                        K(Zn+H2L)=15.1
                        K(Zn+H3L)=11.7
                        K(Zn+H4L)=9.2
*******************************
C12H32N6
                            (6455)
2,5,8,11,14,17-Hexaazaoctadecane;
CH3.NH.(CH2)2.NH.(CH2)2.NH.(CH2)2.NH.(CH2)2.NH.C(CH2)2.NH.CH3
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl NaClO4 25°C 0.15M C H K1=14.02
Zn++
                                 1991ABa (84426)4658
                       B(ZnHL)=21.96
                       K(Zn+HL)=11.68
DH(K1) = -49.4 \text{ kJ mol} -1.
CAS 62708-55-8 (8897)
3,7,10,14-Tetraazahexadecane-1,16-diamine;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl R4N.X 25°C 0.10M C H K1=13.84
                                 2002BBg (84433)4659
                       K(ZnL+H)=6.58
                       K(ZnHL+H)=6.40
Medium: 0.10 M Me4NCl. By calorimetry, DH(K1)=-64.4 kJ mol-1, DS(K1)=48
J K-1 mol-1; DH(ZnL+H)=-26.3, DS(ZnL+H)=38; DH(ZnHL+H)=-37.2, DS=-2.7.
-----
     gl R4N.X 25°C 0.10M C H
                                2002BBg (84434)4660
                       K(ZnL+OH)=2.66
Medium: 0.10 M Me4NCl. By calorimetry, DH(ZnL+OH)=-0.4 kJ mol-1,
DS(ZnL+OH)=52 J K-1 mol-1.
***********************
                          CAS 62497-72-7 (8838)
C12H32N6
4,7,10,13-Tetraazahexadecane-1,16-diamine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       K1=14.45 2002AGa (84439)4661
Zn++ gl NaClO4 25°C 0.15M C
                       K(ZnL+H)=9.27
                       K(ZnHL+H)=6.11
                       B(ZnH-2L)=2.66
********************************
C12H32N6
                           (3377)
5-Ethyl-5-(4-amino-2-azabutyl)-1,9-diamino-3,7-diazanonane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaClO4 25°C 0.10M U
                     K1=16.4
                                1963GCb (84444)4662
                       K(Zn+HL)=12.1
*********************
C13H8O3
                         CAS 719-41-5 (3397)
1-Hydroxyxanthone (1-Hydroxy-9-xanthenone)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
            25°C 0.10M U K1=6.04
     gl KCl
                                1986DDa (84490)4663
(6173)
N-(2-Hydroxy-5-bromobenzylidene)-4-chloroaniline; Cl.C6H4.N:CH.C6H3(OH)Br
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
```

```
Zn++ gl mixed 28°C 75% U K1=5.07 1988MNb (84530)4664
*************************
C13H9NOS
                         (4945)
2-(2'-Thienyl)-8-hydroxyquinoline; HO.C9H5N.C4H3S
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% U K1=6.61 B2=14.99 1969CBa (84537)4665
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
                       CAS 3411-95-8 (1683)
C13H9NOS
2-(2-Hydroxyphenyl)benzothiazole;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
   gl alc/w 20°C 50% U K1=<5.7 1959HOa (84545)4666
_____
Zn++ gl diox/w 25°C 50% U K1=7.57 B2=13.66 1954CFa (84546)4667
C13H9N02
                         (3403)
2-(2'-Hydroxyphenyl)benzoxazole;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
-----
Zn++ gl alc/w 20°C 50% U K1=7.5 1959H0a (84561)4668
C13H9N02BrCl
                       CAS 104614-71-3 (9109)
            HL
4-Bromo-N-(3-chlorophenyl)-N-hydroxybenzamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% C M K1=7.76
                              2001AMc (84574)4669
                     B(Zn(gly)L)=13.79
Medium: 50% v/v dioxane/H20
*********************************
C13H9NO2ClF
                        CAS 104614-72-4 (9107)
N-(3-Chlorophenyl)-4-fluoro-N-hydroxybenzamide;
______
    Mtd Medium Temp Conc Cal Flags Lg K values
                              Reference ExptNo
-----
    gl diox/w 25°C 50% C M K1=7.99
                              2001AMc (84582)4670
                     B(Zn(gly)L)=14.21
Medium: 50% v/v dioxane/H20
**********************************
                        CAS 67201-86-9 (9108)
C13H9N02Cl2
            HL
4-Chloro-N-(3-chlorophenyl)-N-hydroxybenzamide;
 -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl diox/w 25°C 50% C M K1=7.78
                                2001AMc (84590)4671
Zn++
                       B(Zn(gly)L)=13.79
Medium: 50% v/v dioxane/H20
************************************
                TAN
                          CAS 1147-56-4 (4030)
C13H9N3OS
1-(1',3'-Thiazol-2'-ylazo)-2-hydroxynaphthalene;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp NaClO4 20°C 0.05M U K1=9.87 B2=19.74 1964NAc (84610)4672
*********************************
C13H9N3O4
                           (6260)
3-Formyl-4-hydroxy-3'-nitroazobenzene; HO.(CHO)C6H3.N:N.C6H4.NO2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 28°C 0.20M U K1=5.40 B2=9.35 1977WJa (84634)4673
Data also for 2' and 4'-nitro analogues
*************************
C13H9N3O4S2
                          CAS 2536-61-0 (4031)
1-(1',3'-Thiazol-2'-ylazo)-2-hydroxynaphthalene-6-sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl alc/w 25°C 50% U I K1=7.0 B2=13.3 1967NPb (84640)4674
Medium: 50% MeOH, 0.1 M NaClO4. In 0% MeOH: K1=6.3, K2=5.7
*******************************
C13H10NOBr
             HL
                           (6171)
N-(2-Hydroxy-5-bromobenzylidene)aniline; C6H5.N:CH.C6H3(OH)Br
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 28°C 75% U K1=5.56 1988MNb (84671)4675
*******************************
        H2L
C13H10NO2Br
                           (1385)
2'-Hydroxy-5'-bromobenzophenone oxime; Br(HO)C6H3.C(:NOH)C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 30°C 50% U K1=5.06
                                1982UVa (84688)4676
***********************************
C13H10N02Br
                          CAS 82461-64-1 (1121)
N-Phenyl-2-bromobenzohydroxamic acid; Br.C6H4.CO.N(C6H5)OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U T H K1=7.65 B2=13.68 1977AGc (84700)4677
At 35 C: K1=7.49, K2=5.87. DH(K1)=-29.9 and DH(K2)=-28.2 kJ mol-1
______
Zn++ gl diox/w 35°C 50% U K1=7.49 B2=13.36 1974ATa (84701)4678
```

```
*********************************
C13H10NO2C1
                          (8130)
N-(2-Chlorophenyl)benzohydroxamic acid;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=7.78 B2=14.53 1986ARb (84707)4679
Also data for the N-(2-chlorophenyl)-3-methoxy, 3-methyl, 3-fluoro,
3-chloro, 3-bromo-, 3-iodo and 3-nitro-benzohydroxamic acids.
********************************
                         CAS 36016-24-7 (1818)
N-(4-Chlorophenyl)benzohydroxamic acid; C6H5.CO.N(C6H4Cl)OH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 70% U K1=5.53 B2=10.27 1967JSa (84716)4680
Medium: 70% dioxan, 0.1 M KCl
**********************************
C13H10NO2Cl
                         CAS 78154-49-1 (5649)
N-3-Chlorophenylbenzohydroxamic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% C M K1=8.13
                               2001AMc (84730)4681
                      B(Zn(gly)L)=14.48
Medium: 50% v/v dioxane/H20
______
Zn++ gl diox/w 30°C 50% U K1=8.74 B2=15.35 1994JBb (84731)4682
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.
-----
Zn++ gl diox/w 25°C 50% U K1=7.24 B2=13.14 1989PMb (84732)4683
C13H10N02Cl
                         CAS 105417-12-7 (1122)
N-Phenyl-2-chlorobenzohydroxamic acid; Cl.C6H4.CO.N(C6H5)OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U T H K1=7.67 B2=13.74 1977AGc (84748)4684
At 35 C: K1=7.52, K2=5.92. DH(K1)=-26.4 and DH(K2)=-26.4 kJ mol-1
______
Zn++ gl diox/w 35°C 50% U K1=7.52 B2=13.44 1974ATa (84749)4685
*******************************
       HL
C13H10N02F
                         CAS 90493-82-6 (1123)
N-Phenyl-2-fluorobenzohydroxamic acid; F.C6H4.CO.N(C6H5)OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 25°C 50% U T H K1=7.61 B2=13.41 1977AGc (84757)4686
At 35 C: K1=7.40, K2=5.69. DH(K1)=-36.9 and DH(K2)=-19.4 kJ mol-1
______
```

```
Zn++ gl diox/w 35°C 50% U K1=7.40 B2=13.09 1974ATa (84758)4687
***********************
                           CAS 90493-83-7 (1120)
N-Phenyl-2-iodobenzohydroxamic acid; I.C6H4.CO.N(C6H5)OH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 25°C 50% U T H K1=7.58 B2=13.54 1977AGc (84766)4688
At 35 C: K1=7.40, K2=5.64. DH(K1)=-31.7 and DH(B2)=-56.3 kJ mol-1
______
Zn++ gl diox/w 35°C 50% U K1=7.40 B2=14.04 1974ATa (84767)4689
********************************
C13H10N2
                          CAS 3002-77-5 (3400)
2-Methyl-1,10-phenanthroline;
______
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      dis KCl 25°C 0.10M U
                        K1=4.96 B2=9.36 1962IMa (84776)4690
                       K3 = 3.35
**********************************
                          CAS 3003-78-6 (2752)
5-Methyl-1,10-phenanthroline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 35°C 0.10M C M K1=5.57 B2=10.34 1998LYa (84795)4691
                        B(ZnLA)=15.25
                        B(ZnHLA)=21.36
A is 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime.
-----
      gl KNO3 25°C 0.10M C M K1=6.62 B2=12.60 1991DAc (84796)4692
Data for ternary complexes with acetohydroxamic acid
______
   ISE alc/w 25°C 50% U K1=5.82 B2=11.53 1972BBa (84797)4693
                       B3=16.54
Medium: 50% EtOH, 0.1 M KNO3
Zn++ dis KCl 25°C 0.10M U
                       K1=6.62 B2=12.58 1962MBa (84798)4694
                        K3=5.67
    gl KNO3 25°C 0.10M U
                               1956YSb (84799)4695
                        K2=6.0
                       K3=5.0
*********************************
C13H10N2O
                          CAS 5496-07-1 (3404)
2-(2'-Hydroxyphenyl)benzimidazole;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 35°C 60% U K1=6.20 B2=11.70 1984MLa (84820)4696
______
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```
Zn++ gl alc/w 20°C 50% U K1=7.5 B2=14.4 1959H0a (84821)4697
***********************
                       CAS 65782-79-8 (4978)
C13H10N2O
4-Amino-5-hydroxyacridine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl diox/w 25°C 50% U K1=7.69 B2=14.84 1970CBc (84831)4698
Medium: 50% dioxan, 0.1 M NaClO4
**********************************
               Pyocyanine CAS 83-06-5 (2186)
C13H10N2O
            L
Pyocyanine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ sp non-ag 25°C 100% U K1=3.3
                             1978MSc (84836)4699
Medium: DMSO
*********************************
                        CAS 27147-03-1 (6307)
2-Hydroxy-5-(phenylazo)benzaldehyde; C6H5.N:N.C6H3(CHO)(OH)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 28°C 50% U K1=5.00 B2=9.18 1975JTb (84845)4700
CAS 19357-10-9 (9111)
C13H10N2O3
N-(2-Pyridyl)-2-carboxybenzamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                   K1=5.73 B2=10.04 2002GSa (84858)4701
     gl mixed 25°C 40% U
Medium: 40% v/v DMF/H2O, 0.1 M NaClO4.
************************************
                        CAS 15766-65-6 (1384)
2-Hydroxy-5-nitrobenzophenone oxime; HO(NO2)C6H3.C(:NOH)C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=4.59 B2=8.52 1982UVa (84869)4702
*************************
                        CAS 2029-61-0 (178)
C13H10N2O4
N-Phenyl-2-nitrobenzohydroxamic acid; O2N.C6H4.CO.N(C6H5).OH
  -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 25°C 50% U T H K1=7.22 B2=12.86 1977AGc (84893)4703
At 35 C: K1=7.12, K2=5.44. DH(K1)=-17.6 and DH(K2)=-35.2 kJ mol-1
______
Zn++ gl diox/w 35°C 50% U K1=7.12 B2=12.56 1974ATa (84894)4704
```

```
C13H10N2O5
            H3L
                          (1389)
2,4-Dihydroxy-5-nitrobenzophenone oxime; (HO)2(NO2)C6H2.C(:NOH)C6H5
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
.
Zn++ gl diox/w 30°C 50% U K1=6.92 1982UVa (84915)4705
***************************
                         CAS 104654-49-1 (5015)
C13H10N4Br2S
Di-4-bromophenylthiocarbazone; Br.C6H4.N:N.CS.NH.NH.C6H4.Br
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=5.35 1970AFb (84946)4706
Medium: 50% dioxan, 0.1 M
************************************
C13H10N4Cl2S
                         CAS 19403-31-7 (5014)
Di-4-chlorophenylthiocarbazone; Cl.C6H4.N:N.CS.NH.NH.C6H4.Cl
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 25°C 50% U K1=5.37 1970AFb (84950)4707
Medium: 50% dioxan, 0.1 M
********************************
                         CAS 2805-80-3 (5017)
Di-4-fluorophenylthiocarbazone; F.C6H4.N:N.CS.NH.NH.C6H4.F
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp diox/w 25°C 50% U K1=5.75 1970AFb (84954)4708
Medium: 50% dioxan, 0.1 M
**********************************
C13H10N4I2S
                         CAS 2059-77-0 (5016)
Di-4-iodophenylthiocarbazone; I.C6H4.N:N.CS.NH.NH.C6H4.I
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 25°C 50% U K1=5.02 1970AFb (84958)4709
Medium: 50% dioxan, 0.1 M
**********************************
C13H10N4S
                         CAS 3788-81-6 (4014)
2-Picolinylaldehyde 2-benzothiazolylhydrazone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 50% U K1=9.33 B2=18.38 1965HRa (84965)4710
***************************
                        CAS 88220-26-2 (6572)
3-(1-Naphthyl)-2-mercaptopropenoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
gl alc/w 25°C 50% C K1=9.684 B2=18.89 1989IBa (84975)4711
Medium: 50% v/v EtOH/H2O, 1.0 M NaClO4.
**********************************
                          CAS 88220-26-2 (6056)
            H3L
C13H1002S
3-(2-Naphthyl)-2-mercaptopropenoic acid;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 50% C K1=9.70 B2=19.04 1987IBa (84979)4712
                        B(ZnHL)=12.79
Medium: 50% v/v EtOH/H2O, 1.0 M NaClO4
**********************************
C13H11N0
                          CAS 779-84-0 (3406)
N-Salicylideneaniline; HO.C6H4.CH:N.C6H5
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 27°C 50% U K1=5.40 1972SDb (85027)4713
Medium: 50% dioxan, 0.1 M NaClO4
______
Zn++ sp alc/w 30°C 10% U
                                 1969DNa (85028)4714
                        K(Zn+HL=ZnL+H)=-4.34
Medium: 10% EtOH, 0.2 M NaClO4
*************************************
2-(Salicylideneamino)thiophenol, Salicylaldehyde-2-mercaptoanil;
HO.C6H4.CH:N.C6H4.SH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
    gl diox/w 25°C 75% U K1=16.5
                              1998FHa (85039)4715
Medium: 75% (v/v) dioxane/water; 0.1 M KNO3.
***********************
C13H11NOS
                          CAS 56048-80-7 (5018)
N-Thiobenzoyl-N-phenylhydroxylamine; C6H5.CS.N(C6H5)OH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl diox/w 30°C 75% U K1=10.12 B2=18.72 1971DTc (85055)4716
*************************
                           CAS 1761-56-4 (3408)
2-(Salicylideneamino)phenol, Salicylaldehyde-2-hydroxyanil; HO.C6H4.CH:N.C6H4.OH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 75% U K1=12.9 1998FHa (85067)4717
Medium: 75% (v/v) dioxane/water; 0.1 M KNO3.
*********************************
C13H11N02
                            (1383)
```

```
2-Hydroxybenzophenone oxime; HO.C6H4.C(:NOH)C6H5
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=5.71 1982UVa (85073)4718
*******************************
      H2L
C13H11N02
                        CAS 78-75-2 (6258)
3-(Salicylideneamino)phenol; HO.C6H4.CH:N.C6H4.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl alc/w 25°C 50% U K1=5.3 B2=10.40 1977DWa (85080)4719
*******************************
              Salicylanilide CAS 87-17-2 (4016)
C13H11N02
           HL
N-Phenyl-2-hydroxybenzamide; HO.C6H4.CO.NH.C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl diox/w 30°C 75% U K1=5.06 1964JVa (85095)4720
Medium: 75% dioxan, 0.1 M NaClO4
**********************************
                        CAS 304-88-1 (181)
C13H11N02
           HL
N-Phenylbenzohydroxamic acid; C6H5.CO.N(C6H5).OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 30°C 50% U K1=9.27 B2=15.71 1994JBb (85129)4721
Medium: 50% v/v dioxane/H20, 0.10 M NaClO4.
______
   gl diox/w 25°C 50% U K1=6.06 B2=10.58 1976BLa (85130)4722
_____
Zn++ gl diox/w 35°C 50% U K1=7.71 B2=14.34 1974ATa (85131)4723
Zn++ gl diox/w 25°C 50% U K1=7.51 B2=14.14 1972STf (85132)4724
______
     EMF diox/w 25°C 70% U
                     K1=5.76 B2=10.82 1967JSb (85133)4725
Medium: 70% v/v dioxan/H20, 0.1 M KCl
*************************
C13H11N03
           H3L
                        CAS 3147-44-2 (1388)
2,4-Dihydroxy-benzophenone oxime; (HO)2C6H3.C(:NOH)C6H5
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=7.22 1982UVa (85191)4726
*************************
                       CAS 156357-28-7 (8319)
C13H11N03
           H2L
N-(p-Hydroxyphenyl)benzohydroxamic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl diox/w 30°C 50% U K1=8.31 B2=14.78 1994JBb (85198)4727
Medium: 50% v/v dioxane/H20, 0.10 M NaClO4.
For N-(m-hydroxyphenyl)benzohydroxamic acid, K1=8.29, K2=6.61.
*********************************
                 Oxolinic acid CAS 14698-29-4 (2755)
1-Ethyl-6,7-dioxymethylene-quinoline-4-one-3-carboxylic acid;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    sp oth/un 25°C 0.05M C
                                 2000MPa (85213)4728
                       K1eff=3.19
Medium: 0.05 M ethanoate buffer, pH=5.5. Method: spectrofluorimetry.
For 7-Hydroxymethylnalidixic acid (C12H12N2O4) K1eff=3.77
-----
Zn++ sp KCl 25°C 0.10M U K1=4.3 1978TSb (85214)4729
**********************************
C13H11N2O3F3
3-(2-Acetylphenylhydrazone)-1,1,1-trifluoropentane-2,4-dione;
CF3.CO.C(CO.CH3):N.HN.C6H4.COCH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 75% U K1=8.77 B2=17.02 1990ASb (85239)4730
******************************
C13H11N3OS L
                            (1274)
1-Benzoyl-3-pyridin-2-ylthiourea; C5H4N.NH.CS.NH.CO.C6H5
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 75% U K1=5.51 B2=9.21 1980SMb (85264)4731
***************************
C13H11N3O2
                           CAS 62031-25-8 (1119)
4-Hydroxy-3-oximinomethylazobenzene; (HO)(HO.N:CH)C6H3.N:N.C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 28°C 60% U K1=6.65 B2=11.80 1978WPa (85275)4732
Zn++ gl alc/w 25°C 42% U K1=4.97 B2=9.58 1974MSb (85276)4733
*****************************
C13H11N3O5S
4-Hydroxy-3-oximinomethylazobenzene-4'-sulfonic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl alc/w 25°C 42% U K1=3.67 B2=7.10 1973DSa (85294)4734
Medium: 42% EtOH, 0.2 M NaClO4
**********************************
                          CAS 4453-80-9 (8115)
C13H11N502
3-Nitro-1,5-diphenylformazan;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 30°C 50% C T H K1=6.58 B2=12.02 2001SKb (85311)4735
Medium: 50% v/v dioxane/water, 0.1 M KCl. Data for 20-40 C.
DH(K1)=-30.7 \text{ kJ mol}-1, DH(K2)=-24.6.
******************************
                          (3417)
C13H11N504S
4-Hydroxy-6-p-sulfoanilinomethylpteridine;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values
-----
Zn++ gl oth/un 20°C 0.01M U K1=3.4 1953ALa (85317)4736
*********************************
        H2L
C13H12N2O6S2
                          (1333)
4-Sulfono-salicylidene sulfanilamide; HO3S.C6H3(OH).CH:N.SO2.C6H4.NH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl KNO3 32°C 0.10M U T K1=6.03 1981SBb (85383)4737
*******************************
      L
C13H12N40
               Diphenylcarbaz. CAS 538-62-5 (1195)
Diphenylcarbazone; C6H5.NH.NH.CO.N:N.C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% U K1=6.4 B2=12.90 1986MHb (85402)4738
______
Zn++ sp NaClO4 25°C 50% C K1=6.32 B2=12.44 1985MAb (85403)4739
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.
-----
Zn++ sp diox/w 25°C 50% U K1=5.76 1964MFa (85404)4740
***********************************
               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
-----
Zn++ sp diox/w 25°C 50% C K1=6.14 1985MAb (85440)4741
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.
-----
Zn++ sp NaClO4 25°C 0.10M U K1=6.93 B2=13.96 1973BSe (85441)4742
-----
Zn++ sp diox/w 25°C 50% U K1=6.16 1970AFb (85442)4743
Medium: 50% dioxan, 0.1 M
______
Zn++ sp diox/w 25°C 50% U K1=6.18
_____
Zn++ dis NaClO4 25°C 1.0M U M K1=5.05 1962HFa (85444)4745
Ternary complexes with diethyldithiocarbamic acid
```

```
**********************************
C13H12O5
                       CAS 17426-76-5 (3401)
0,0-Dimethylpurpurogallin
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 30°C 50% U K1=6.8 B2=12.5 1954BFc (85482)4746
******************************
C13H13N0
                       CAS 24403-51-8 (3410)
1,2,3,4-Tetrahydro-9-hydroxyacridine;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 20°C 50% U K1=8.80 B2=16.66 1954IRa (85490)4747
Medium: 50% dioxan, 0.3 M NaClO4
*********************************
C13H13N0
                       CAS 35854-45-6 (297)
2-(2-Phenyl-2-hydroxy)ethylpyridine;(C6H5)(OH)CHCH2C5H4N
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KNO3 25°C 0.10M U K1=1.2 1974ILa (85496)4748
(4018)
3-Hydroxy-1-(2'-methylphenyl)-3-phenyltriazene;
_____
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.10M U K1=8.38 B2=15.46 1964PSa (85506)4749
*****************************
                       CAS 5756-83-2 (4019)
3-Hydroxy-1-(4'-methylphenyl)-3-phenyltriazene;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
          25°C 0.10M U K1=8.62 B2=15.99 1964PSa (85512)4750
Zn++ gl KCl
C13H13N3O2
                       CAS 5756-89-8 (4021)
3-Hydroxy-1-(4'-methoxyphenyl)-3-phenyltriazene;
__________
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 25°C 70% U K1=8.84 B2=16.63 1965PSb (85520)4751
Medium: 70% dioxan, 0.1 M KCl
**********************************
                      CAS 220035-45-0 (8639)
C13H13N50S
alpha-Pyridoin thiosemicarbazone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl diox/w 30°C 50% U TIH K1=8.52 B2=15.45 19980Fa (85527)4752
Medium: 50% H20/dioxane, 0.10 M KNO3. Data for 50% v/v H20/dioxane, I =
0.05-0.20 M, and for 40 and 50 C at I=0.10. DH and DS values.
****************************
C13H13O2Br
                           (6846)
3-Benzoyl-5-bromohexa-5-ene-2-one; CH2=CBr.CH2.CH(CO.CH3)CO.C6H5
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M U K1=4.47 1992CMd (85534)4753
*************************
C13H13O2Cl
3-Benzoyl-5-chlorohex-5-ene-2-one; CH2=CCl.CH2.CH(CO.CH3)CO.C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
    gl KCl 25°C 0.20M U K1=4.50
                              1992CMd (85542)4754
********************
                          CAS 19316-85-7 (1466)
2-Hydroxyphenyl-N-phenylaminomethylphosphinic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 20°C 0.10M U K1=5.10 1985SIb (85558)4755
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
_____
                       K1=1.3 1970BAa (85570)4756
     gl KNO3 20°C 0.10M U
                      K(Zn+HL)=1.0
*******************************
                           (6631)
1,3-Bis(4-pyridyl)propane;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ sp non-aq 25°C 100% U HM
                                 1992UNa (85575)4757
                       K(Zn2A+L=Zn2AL)=1.36
                       K(ZnB+L=ZnBL)=4.63
                       K(Zn2C+L=Zn2CL)=5.54
Medium: CHCl3. A,C=substituted porphyrins, B=substituted porphyrin dimer.
*******************************
C13H14N2O
                         CAS 87413-05-6 (6300)
1-Benzyl-1,4-dihydronicotinamide;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ sp non-aq 25°C 100% U
                                 1989FKb (85578)4758
```

```
K(ZnP+L)=1.70
```

```
Medium: CH2Cl2. ZnP=tetraphenvlporphvrinatozinc(II)
*************************
C13H14N2O2S
                         CAS 4384-37-1 (4032)
2-(4'-Methylphenylsulfonamido)aniline; CH3.C6H4.SO2.NH.C6H4.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w ? 50% U K1=9.33 B2=18.24 1968BRa (85591)4759
Medium: 50% dioxan, 0.01 M
*********************************
                         CAS 75391-97-8 (9289)
C13H14N2O2S
2-(p-Toluenesulfonylaminomethyl)pyridine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl alc/w 25°C 80% C K1=7.66 B2=14.57 2003CKa (85596)4760
Medium: 80% MeOH/H20, 0.1 M Me4NNO3.
***********************************
                           (4989)
C13H14N2O3
1-Phenyl-3-methyl-4-ethoxycarbonylpyrazol-5-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ dis NaClO4 ? 0.10M U K1=2.05 B2=5.52 1971NSb (85598)4761
C13H14N2O3
                           (4940)
3-(2-Acetylphenylhydrazone)pentane-2,4-dione;(CH3.CO)2C:N.NH.C6H4(CO.CH3)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 75% U K1=10.60 B2=20.12 1990ASb (85602)4762
**************************
            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
. - - -
Zn++ gl alc/w 45°C 50% C K1=7.13 1996MMc (85624)4763
Medium: 50% v/v MeOH/H2O, 0.10 M KNO3.
**********************************
                          CAS 80767-75-5 (1467)
2-Hydroxy-4-nitrophenyl-N-(2-pyridylmethyl)aminemethylphosphinic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaCl04 20°C 0.10M U K1=5.70 1985SIb (85635)4764
*********************************
                         CAS 80767-76-6 (1468)
2-Hydroxy-4-nitrophenyl-N-(3-pyridylmethyl)aminemethylphosphinic acid;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl04 20°C 0.10M U K1=5.80 1985SIb (85648)4765
*******************************
                            CAS 13103-75-8 (473)
4-(2-Pyridylazo)-N,N-dimethylaniline; C5H4N.N:N.C6H4.N(CH3)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp NaNO3 25°C 0.30M U
                       M K1=2.31 1971CHe (85669)4766
                         K(ZnA+L)=2.08
                         K(ZnB+L)=1.94
                         K(ZnC+L)=2.39
A=diethylenetriamine; B=triethylenetetramine; H2C=iminodiethanoic acid
    -----
                       M K1=2.40
      kin NaNO3 25°C 0.30M U
                                   1971CHe (85670)4767
                         K(ZnA+L)=2.21
                         K(ZnB+L)=1.57
                         K(ZnC+L)=2.45
A=diethylenetriamine; B=triethylenetetramine; H2C=iminodiethanoic acid
______
Zn++
      kin NaNO3 25°C 0.30M U
                                   1971CHe (85671)4768
                         K(ZnA+L)=1.54
                         K(ZnB+L)=2.37
                         K(ZnC+L)=2.40
H2A=ethylenediamine-N,N-diethanoic acid; H2B=cystine;
H5C=tripolyphosphoric acid.
Zn++
   sp NaNO3 25°C 0.30M U
                                   1971CHe (85672)4769
                         K(ZnA+L)=1.57
                         K(ZnB+L)=2.76
                         K(ZnC+L)=1.18
                         K(ZnD+L)=2.46
H2A=ethylenediamine-N,N-diethanoic acid; H2B=cystine;
H3C=nitrilotriethanoic acid; H5D=tripolyphosphoric acid.
______
    kin KNO3 16°C 0.10M U K1=2.62 1964WIa (85673)4770
7n++
______
Zn++ sp NaNO3 25°C 0.15M U K1=2.36 1953KMa (85674)4771
*************************
                           CAS 354122-81-9 (8808)
N-Glycylbis(pyridin-2-yl)methylamine;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KCl 25°C 0.20M C
                         B2=6.66
                                   20010Va (85689)4772
                         B(ZnH-1L)=-3.23
                         B(ZnH-2L)=-11.94
                         B(ZnH-1L2)=-0.7
```

```
B(ZnH-2L2)=-9.12
**********************************
                        CAS 41785-01-7 (9049)
Trimethylene-N6,N6'-bisadenine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
                      K1=4.2 2003GFa (85691)4773
Zn++ gl KNO3 25°C 0.10M C
                      B(Zn2L)=7.4
                      B(ZnHL)=8.4
                      B(Zn2HL)=11.7
                      K(Zn+HL)=4.0
K(ZnHL+Zn)=3.3.
CAS 91956-75-1 (4023)
C13H15N0
2-Butyl-8-hydroxyquinoline;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl oth/un 25°C 0.0 U K1=9.75 B2=19.99 1966KUc (85698)4774
************************
C13H15N04
                         CAS 35104-87-2 (4997)
            HL
2-Nitrobenzoyl pivaloyl methane; O2N.C6H4.CO.CH2.CO.C(CH3)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 30°C 75% U K1=8.75 B2=16.77 1972UDa (85712)4775
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
************************
                CAS 18362-53-3 (4998)
         HL
C13H15N04
4-Nitrobenzoyl pivaloyl methane; O2N.C6H4.CO.CH2.CO.C(CH3)3
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl diox/w 30°C 75% U K1=8.88 B2=17.20 1972UDa (85719)4776
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
**********************************
                          (4999)
C13H15N06
2-Benzylnitrilotriethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ oth oth/un 25°C 0.10M U K1=10.24 1962HKa (85730)4777
**********************************
C13H15N06
           H3L
                          (4026)
N-(1'-Carboxy-1'-phenylethyl)iminodiethanoic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl
           20°C 0.10M U K1=11.45 1966IMa (85748)4778
```

```
*************************
C13H15N06
                           (4025)
N-(alpha-Carboxy-4'-methylbenzyl)iminodiethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KCl 20°C 0.10M U K1=9.90 1966IMb (85754)4779
*********************
C13H15N07
                         CAS 50444-50-3 (4027)
N-(alpha-Carboxy-4'-methoxybenzyl)iminodiethanoic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ gl KCl 20°C 0.10M U K1=9.95 1966IMb (85763)4780
********************
C13H15N2O3P
                         CAS 80767-72-2 (1460)
            H2L
2-Hydroxyphenyl-(N-2-pyridylmethylamino)methylphosphinic acid;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl04 20°C 0.10M U K1=5.70 1985SIa (85775)4781
*******************************
C13H15N2O3P
            H2L
                         CAS 80767-73-3 (1461)
2-Hydroxyphenyl-(N-3-pyridylmethylamino)methylphosphinic acid;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 20°C 0.10M U K1=5.80 1985SIa (85788)4782
***********************************
C13H15N2O3P
            H2L
                         CAS 80767-74-4 (1462)
2-Hydroxyphenyl-(N-4-pyridylmethylamino)methylphosphinic acid;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaClO4 20°C 0.10M U K1=5.80 1985SIa (85801)4783
*********************
C13H15N2O4P
            H3L
                         CAS 80767-78-8 (1463)
2-Hydroxyphenyl-(N-2-pyridylmethylamino)methylphosphonic acid;
C6H4(OH)CH(PO3H2).NH.CH2.C5H4N
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaClO4 20°C 0.10M U K1=8.10
Zn++
                                1985SIa (85814)4784
                       K(Zn+HL)=4.05
********************************
C13H15N2O4P
                          CAS 85946-85-6 (1464)
            H3L
2-Hydroxyphenyl-(N-3-pyridylmethylamino)methylphosphonic acid;
C6H4(OH)CH(PO3H2).NH.CH2.C5H4N
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Metal
```

```
gl NaClO4 20°C 0.10M U
                        K1=8.20
Zn++
                                 1985SIa (85827)4785
                       K(Zn+HL)=4.00
***********************************
C13H15N2O4P
                           CAS 85946-86-7 (1465)
2-Hydroxyphenyl-(N-4-pyridylmethylamino)methylphosphonic acid;
C6H4(OH)CH(PO3H2).NH.CH2.C5H4N
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 20°C 0.10M U
                      K1=8.20 1985SIa (85840)4786
                        K(Zn+HL)=4.10
**********************************
C13H15N3OS
                           CAS 76877-50-4 (1291)
2-(4',5'-Dimethyl-2-thiazolylazo)-4,6-dimethylphenol;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 60% U K1=8.05 B2=16.07 1981KTa (85856)4787
CAS 76877-45-7 (1295)
C13H15N3OS
2-(4',5'-Dimethyl-2-thiazolylazo)-4-ethylphenol;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 25°C 60% U K1=7.37 B2=14.54 1981KTa (85865)4788
CAS 16832-24-9 (6)
C13H15N3O2
             HL
N3-Benzyl-L-histidine; H2N.CH(CH2.C3H2N2(CH2.C6H5))COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C M K1=6.58 B2=12.17 1976BPa (85880)4789
                        B(Zn(D-His)L)=12.58
                        B(Zn(L-His)L)=12.27
Zn++ gl KCl 25°C 0.10M C
                        K1=5.790 B2=11.060 1976RIa (85881)4790
                        K(Zn(DL-Benzyl-His))=5.786
                        B(Zn(DL-Benzyl-His)2)=11.021
                     _____
Zn++ gl none 21°C 0.0 M K1=6.54 B2=12.54 1974YAa (85882)4791
*******************************
                           CAS 76877-49-1 (1293)
C13H15N302S
             HL
2-(4',5'-Dimethyl-2-thiazolylazo)-4-methyl-6-methoxyphenol;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Zn++ gl diox/w 25°C 60% U K1=7.77 B2=15.04 1981KTa (85889)4792
********************************
                           CAS 2390-74-1 (3411)
C13H15N3O3
                 Gly-Trp
             HL
```

```
Glycyltrytophan;
 -----
     Mtd Medium Temp Conc Cal Flags Lg K values
_____
Zn++ gl oth/un 25°C 0.10M U K1=3.3 1954PEa (85897)4793
****************************
C13H15O2Br
                        CAS 41070-38-6 (4994)
            HL
2-Bromobenzoyl pivaloyl methane; Br.C6H4.CO.CH2.CO.C(CH3)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl diox/w 30°C 75% U K1=9.08 B2=17.45 1972UDa (85916)4794
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
************************
C13H1502Br
                        CAS 41070-33-1 (4995)
            HL
4-Bromobenzoyl pivaloyl methane; Br.C6H4.CO.CH2.CO.C(CH3)3
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 30°C 75% U K1=9.46 B2=18.22 1972UDa (85921)4795
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
**********************************
C13H1502Cl
                        CAS 41070-37-5 (4992)
2-Chlorobenzoyl pivaloyl methane; Cl.C6H4.CO.CH2.CO.C(CH3)3
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl diox/w 30°C 75% U
                      K1=9.11 B2=17.49 1972UDa (85926)4796
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
***********************************
                        CAS 41070-30-8 (4993)
C13H1502Cl
4-Chlorobenzoyl pivaloyl methane; Cl.C6H4.CO.CH2.CO.C(CH3)3
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl diox/w 30°C 75% U
                      K1=9.60 B2=18.44 1972UDa (85931)4797
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
************************
                        CAS 76877-51-5 (1290)
2-(4',5'-Dimethyl-2-thiazolylazo)-5-dimethylaminophenol;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 25°C 60% U K1=9.66 B2=18.92 1981KTa (85941)4798
(5437)
C13H16N60
Tri-(N-methyl-imidazol-2-yl)-methanol;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Zn++ gl KNO3 25°C 0.20M U K1=3.15 B2=5.85 1980BHa (85950)4799
*************************
                          CAS 499196-34-8 (8833)
N-Histidylbis(imidazol-2-yl)methylamine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl 25°C 0.20M C
                        K1=6.82 B2= 9.97 20020Va (85954)4800
                        B(ZnH3L2)=28.08
                        B(ZnH2L2)=22.79
                        B(ZnHL2)=16.85
                        B(ZnH2L)=16.84
B(ZnHL)=12.16, B(ZnH-1L)=-0.52.
*.
C13H1602
             HL
                Mesitoylacetone CAS 6450-57-3 (4010)
1-(2',4',6'-Trimethylphenyl)butane-1,3-dione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=8.89 B2=16.62 1965UFa (85958)4801
*******************************
C13H16O2
                          CAS 13988-67-5 (4973)
             HL
Benzoyl pivaloyl methane; C6H5.CO.CH2.CO.C(CH3)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 30°C 75% U K1=9.82 B2=18.83 1972UDa (85962)4802
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
********************************
             HL
C13H17N03
                          CAS 94287-43-2 (902)
L-2-(Benzoylamino)-4-methylpentanoic acid; (CH3)2CHCH2CH(NHCO.C6H5)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
      gl KNO3 25°C 0.10M U T H K1=2.74
                                 1980SKa (85974)4803
In 50% v/v dioxan. Temperature range 25-45C. At 35C, DH=8.1 and DS=79.7.
*********************************
C13H17N06
                          CAS 77553-78-7 (6078)
N-(2-Hydroxy-1-(hydroxybenzyl)-iminodiethanoic acid;
HO.CH2.CH(CH(OH)(C6H5)).N(CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 25°C 1.0M C
                        K1=7.93 B2=13.20 1981ASb (85986)4804
                        B(ZnHL)=9.77
                        B(ZnH-1L)=-0.29
Aminopyrine (2030)
C13H17N30
1-Phenyl-2,3-dimethyl-4-dimethylamino-5-pyrazolone, Dimethylaminoantipyrine;
  .....
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.50M U K1=1.00 B2=1.29
                                    1978LWa (85995)4805
C13H17N3O5
                            (6006)
N-Benzyloxycarbonyl-alanylglycyl hydroxamic acid;
C6H5.CH2.O.CO.NH.CH(CH3).CO.NH.CH2.CO.NHOH
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M U K1=4.0 1987CSb (86014)4806
********************************
C13H18N2O4
                            (6005)
N-Benzyloxycarbonyl-valyl hydroxamic acid; C6H5.CH2.O.CO.NH.CH(CH(CH3))2.CO.NHOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U K1=4.8 B2=8.2 1987CSb (86031)4807
******************************
                          CAS 13933-94-3 (4028)
C13H18N2O4
            H2L
Pyridoxylidenevaline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp non-ag 27°C 100% U B2=11.5
                                 1967MMb (86040)4808
Medium: MeOH
   sp oth/un 25°C 0.10M U K1=7.94 1961DRa (86041)4809
*******************************
C13H19N3
                           (6739)
2,6-Bis(pyrrolidin-2-yl)pyridine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                        K1=9.06
Zn++ gl KNO3 25°C 0.12M U H
                                 1993BGb (86066)4810
                        B(rac-ZnL2)=12.60
                        B(meso-ZnL2)=13.63
                        B(Zn(OH)L)=18.14
                        B(Zn(OH)2L)=29.01
**********************************
                           CAS 380371-98-2 (8005)
C13H19N3O4
N-Benzyl-iminobis(propionohydroxamic acid);
  -----
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KNO3 25°C 0.10M C
                       K1=8.34
                                 2001SGb (86075)4811
                       B(ZnHL)=14.68
*******************************
                 b-Asp-b-Asp-Pro CAS 91921-49-2 (8149)
            H3L
Pyrrolidine-2-carboxy-N-(1,5-dicarboxy-1-amino-4-azaheptane-3,7-dione);
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=5.36
                               1989ARa (86077)4812
****************************
                           (1471)
2-Hydroxyphenyl-N-(cyclohexylamino)methylphosphonic acid;
C6H4(OH)CH(PO3H2).NH.C6H11
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                       K1=6.80
      gl NaClO4 20°C 0.10M U
                                1985SIb (86085)4813
                      K(Zn+HL)=3.30
Asp-Ala HisNH2 CAS 83354-03-4 (8246)
C13H20N605
             HL
Aspartyl-alanyl-histidinamide;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl
           25°C 0.50M U
                                1982AGa (86142)4814
                       K(Zn+H2L)=1.86
                       K(Zn+HL)=5.28
                       K(2Zn+HL)=9.1
******************************
C13H21N3O
                         CAS 473793-88-3 (8976)
7-0xa-3,11,17-triazabicyclo[11.3.1]heptadeca-1(17),13,15-triene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.10M C K1=6.86
                                2001CDb (86163)4815
******************************
                          CAS 1798-14-7 (921)
C13H22N208
(Pentamethylenedinitrilo)tetraethanoic acid; ((HOOC.CH2)2N.CH2.CH2)2CH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 20°C 1.0M C
                       K1=14.00
                                1999ANa (86181)4816
                       B(NiHL)=19.26
                       K(NiL+NiHL)=2.80
Zn++ gl KNO3 20°C 0.10M U H K1=12.67
                               1964ANa (86182)4817
                       K(Zn+HL)=7.8
By calorimetry: DH(K1)=-11.3 kJ mol-1, DS=204 J K-1 mol-1
*********************************
C13H22N2O8
            H4L
                         CAS 1198-14-7 (5004)
1,2-Diaminopentane-N,N,N',N'-tetraethanoic acid; (HOOCCH2)2NCH2CH(C3H7)N(CH2COOH)2
------
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     vlt KNO3 20°C 0.10M U K1=18.17
                               1974NLa (86216)4818
```

```
***********************************
C13H22N208
                              (7164)
2,4-Diaminopentane-N,N,N',N'-tetraethanoic acid;
(HOOCCH2)2NCH(CH3)CH2CH(CH3)N(CH2COOH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KNO3 20°C 0.10M U K1=16.96 1981NSc (86244)4819
*************************
C13H22N2O8
                              (5003)
3-Methyl-1,2-diaminobutane-N,N,N',N'-tetraethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ vlt KNO3 20°C 0.10M U K1=18.53 1968NLb (86271)4820
**********************************
C13H22N4
                              (6710)
3,7,11,17-Tetraazabicyclo[11.3.1]heptadeca-1(17),13,15-triene;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl KNO3 25°C 0.10M C K1=12.816 19
K(Zn(OH)L+H)=8.48
                                    1993CDa (86321)4821
********************************
C13H22N4O4S2
                            CAS 206430-11-7 (7583)
N-Acetyl-cysteinyl-prolinyl-cysteine amide;
CH3CONHCH(CH2SH)COC4H7NCONHCH(CH2SH)CONH2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                          K1=9.31 1998GGb (86335)4822
      gl KNO3 25°C 0.10M C
                         B(Zn2L2)=23.45
************************************
                             CAS 93031-56-2 (7079)
1,4,7,10-Tetraazacyclotrideca-2,9-dione-4,7-diethanoic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ nmr none 23°C 0 U
                                    1997IMa (86342)4823
                          K(ZnL+HA)=2.3
                          K(ZbL+B)=2.2
HA=histamine, B=imidazole
Zn++ gl KCl 25°C 0.10M C
                          K1=9.13
                                    1995I0b (86343)4824
                          K(ZnL+H)=2.36
                          K(ZnL=ZnH-1L+H)=-9.97
                          K(ZnH-1L=ZnH-2L+H)=-11.24
*********************************
                             CAS 290345-99-2 (7758)
N,N'-Bis(5-methylimidazol-4-ylmethyl)-1,3-diaminopropan-2-ol;
```

```
Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
 _____
      gl NaClO4 25°C 0.10M C I
                          K1=9.63
                                    2000GKc (86363)4825
                         B(ZnHL)=13.83
                         B(ZnH-1L)=0.10
In 65%w/w EtOH/H2O; 0.05 NaC6H6SO3, K1=10.97, B(ZnHL)=14.43,
B(ZnH-1L)=1.19, B(Zn2H-2L)=-0.37, B(Zn2H-3L)=-10.38.
*******************************
                            CAS 41070-22-8 (4974)
Hexahydrobenzoyl pivaloyl methane; C6H11.CO.CH2.CO.C(CH3)3
 Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 30°C 75% U K1=9.98
                                   1972UDa (86372)4826
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
**********************************
C13H24N2O6
                              (5610)
1,11-Dioxa-4,8-diazacyclotridecane-N,N'-diethanoic acid;
     ______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl R4N.X 25°C 0.10M C
                         K1=10.26
                                   1998CCd (86403)4827
                         K(ZnL+H)=4.08
Medium: 0.10 M Me4NNO3.
**********************************
                            CAS 206430-06-0 (7579)
C13H24N4O4S2
N-Acetyl-cysteinyl-valinyl-cysteine amide;
CH3CONHCH(CH2SH)CONHCH(CH(CH3)2)CONHCH(CH2SH)CONH2
-----
    Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
-----
      gl KNO3 25°C 0.10M C
                          K1=9.39
                                    1998GGb (86425)4828
                         B(Zn2L2)=23.26
********************************
C13H25N5
                              (7379)
1-(Imidazol-4-ylmethyl)-1,5,9-triazacyclododecane;
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
      gl NaCl 25°C 0.15M C
                                    1997DMb (86432)4829
Zn++
                          K1=10.08
                         K(ZnL+H)=4.96
                         K(ZnL=ZnH-1L+H)=-10.87
*********************************
C13H25N5
               L
                              (7380)
1-(Pyrazol-3-ylmethyl)-1,5,9-triazacyclododecane;
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl NaCl 25°C 0.15M C
                       K1=9.25
                                   1997DMb (86435)4830
```

```
K(ZnL+H)=5.36
K(ZnL=ZnH-1L+H)=-8.97
```

```
****************************
C13H25N5
2,6-Bis-(5-(1,4-diazahexyl)pyridine; (H2N.C2H4.NH.CH(CH3))2.C5H3N
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
.....
Zn++ cal KNO3 25°C 0.1M C H K1=15.73
                               1982TMc (86443)4831
DH(K1) = -58.1 \text{ kJ mol} -1
______
     cal KNO3 25°C 0.10M C
                                1982TMd (86444)4832
                      DH1=-58.1 kJ/mol
    gl KNO3 25°C 0.10M C
                       K1=15.73
                                1978HMa (86445)4833
                       K(ZnL+H)=2.74
**********************************
C13H28N4O2
                          CAS 17023-02-8 (7247)
3,3,9,9-Tetramethyl-4,8-diazaundecane-2,10-dione dioxime;
(HON:C(CH3)C(CH3)2NHCH2)2CH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 25°C 0.15M C K1=5.01
                                2004NJa (86530)4834
                       B(ZnH-1L)=0.26
                      B(ZnH-2L)=-8.79
______
Zn++ gl KNO3 35°C 0.10M C M K1=9.91
                                1998LYa (86531)4835
                       B(ZnHL)=16.40
Ternary complexes with 5-substituted-1,10-phenanthrolines.
******
                           (6454)
4,8,12-Trimethyl-1-oxa-4,8,12-triazacyclotetradecane;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U
                        K1=6.36
                                1991ACa (86546)4836
                       B(ZnH-1L)=-1.58
                       B(ZnH-2L)=-12.49
                       K(ZnL+OH)=5.88
                       K(ZnL+2OH)=8.79
*******************************
C13H30N2O4
                          CAS 139-90-2 (3415)
N-(2-Hydroxyethyl)-N,N',N'-tri(2-hydroxypropyl)ethylenediamine;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.50M U K1=5.67
                                1960HDa (86556)4837
*************************************
C13H30N40
                          CAS 252191-62-1 (7610)
```

```
1-(3-Hydroxypropyl)-1,4,8,11-tetraazacyclotetradecane;
  Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl R4N.X 25°C 0.10M C
                       K1=13.0
                                1999DWa (86565)4838
                       K(Zn+HL)=6.6
                       K(ZnL=ZnH-1L+H)=-8.2
Medium: 0.1 M NEt4ClO4
**********************************
                          CAS 25732-24-5 (5080)
C14H8N3OCl
10-Chloro-7-hydroxyindolo(2,3-b)quinoxaline;
  Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
    sp diox/w ? 50% U
                                1970KMc (86595)4839
                      K(Zn+HL=ZnL+H)=(?)3.71
*******************************
C14H8N308S2F3
                           (9231)
1-(2-Thenoyl),4-trifluoro,2-[2-hydroxy-2-sulpho-5-nitrophenylazo]butadi-1,3-one;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl KCl 25°C 0.1M U K1=7.47 B2=14.03 2004ACa (86605)4840
********************************
C14H8N4O4Br2S
            H2L
                3,5-di-Br-PAHQS (7223)
7-(3,5-Dibromo-2-pyridyl)-azo)-8-hydroxyquinoline-5-sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      sp KNO3 25°C 0.10M C K1=16.01
                                1990HCa (86615)4841
***********************************
C14H8N4O4Cl2S
                           (6672)
7-((3,5-Dichloro-2-pyridyl)azo)-8-hydroxyquinoline-5-sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp KNO3
           25°C 0.10M C K1=15.96
                               1990HCa (86619)4842
*********************************
                Quinizarin CAS 81-64-1 (1060)
1,4-Dihydroxyanthraquinone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                  -----
-----
Zn++ sp alc/w 20°C 50% U
                                1982KMd (86661)4843
                      K(Zn+HL)=4.9
Medium: 50% v/v EtOH/H20
**********************************
C14H807S
            H3L
                DASA
                          CAS 83-61-4 (950)
1,2-Dihydroxyanthraquinone-3-sulfonic acid, Alizarin Red S;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 30°C 0.0 U I K1=8.61 B2=15.04 1972GDa (86706)4844
I=0.02: K1=9.11, K2=6.72; 0.05: K1=9.22, K2=6.75;
0.15: K1=9.32, K2=6.70; 0.2: K1=8.72, K2=6.32
********************************
            HL
                      CAS 641-63-4 (4038)
C14H9N02
2-(2'-Pyridyl)indan-1,3-dione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl diox/w 30°C 75% U K1=9.64 B2=18.98 1964CMb (86785)4845
******************************
C14H9N2OC1S
                          (562)
N-(2'-Hydroxy-5'-chlorobenzylidene)-4-aminobenzothiazole;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 0.10M U K1=6.1 B2=12.90 1978SUa (86817)4846
**********************************
                        CAS 25732-18-7 (5042)
1-Hydroxyindolo(2,3-b)quinoxaline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w ? 50% U K1=6.47 B2=14.02 1970KMc (86825)4847
______
     gl diox/w 25°C 50% U
                      K1=7.25 B2=14.28 1970MKg (86826)4848
Medium: 50% v/v dioxan, 0.01 M (H,K)NO3
*********************
                        CAS 25732-19-8 (5043)
C14H9N30
4-Hydroxyindolo(2,3-b)quinoxaline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w ? 50% U K1=6.48 B2=14.11 1970KMc (86837)4849
Zn++ gl diox/w 25°C 50% U K1=8.23 B2=15.01 1970MKg (86838)4850
Medium: 50% v/v dioxan, 0.01 M (H,K)NO3
***********************************
C14H9N706
            H3L
                          (5044)
1,5-Bis(2-hydroxy-4-nitrophenyl)-3-cyanoformazan;
     Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    sp NaClO4 25°C 0.10M U
                               1971BSf (86858)4851
                    B(ZnH4L2)=53.5
***********************************
C14H10N02F3
                         CAS 530-28-9 (2574)
N-(3-Trifluoromethylphenyl)-2-aminobenzoic acid; HOOC(C6H4)NH(C6H4)CF3
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl mixed 22°C 90% U K1=2.51
                                 1982GKb (86895)4852
Medium: 90% DMF/H20
***********************************
C14H10N2OS
                          CAS 5005-14-1 (563)
N-(2'-Hydroxybenzylidene)-4-aminobenzothiazole;
_______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl diox/w 25°C 0.10M U K1=7.7 B2=14.40 1978SUa (86898)4853
*******************************
                          CAS 85545-78-4 (6309)
C14H10N2O5
3,2'-Dicarboxy-4-hydroxyazobenzene; (HO)(COOH)C6H3.N:N.C6H4.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 75% U K1=13.19 B2=23.26 1976RKa (86904)4854
***********************
C14H10N4O2S
                            (6854)
3-Phenyl-5-mercapto-4-(2-nitrophenyl)-1,2,4-triazole; C6H5.C2N3(SH)(C6H4.NO2)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Zn++ gl mixed 30°C 70% U K1=4.87 B2=8.94 1991SMc (86918)4855
Medium: 70% DMF. Data also for 4-chlorophenyl, 2-nitrophenyl, 4-nitrophenyl,
3,5-dinitrophenyl analogues
HL
C14H11N02
                          CAS 10472-94-3 (4040)
1-Phenyl-3-(2'-pyridyl)propane-1,3-dione; C6H5.CO.CH2.CO.C5H4N
------
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      gl diox/w 25°C 75% U I K1=10.86 B2=20.90 1967WHa (86939)4856
Medium: 75% dioxan, 0.01 M. In 0.002 M K1=11.15, K2=10.85
********************************
                       CAS 10472-95-4 (4041)
C14H11N02
1-Phenyl-3-(3'-pyridyl)propane-1,3-dione; C6H5.CO.CH2.CO.C5H4N
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 25°C 75% U I K1=10.15 B2=19.47 1967WHa (86943)4857
Medium: 75% dioxan, 0.01 M. In 0.002 M: K1=10.39, K2=9.86
**********************************
                          CAS 6312-20-3 (4042)
C14H11N02
1-Phenyl-3-(4'-pyridyl)propane-1,3-dione; C6H5.CO.CH2.CO.C5H4N
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
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gl diox/w 25°C 75% U I K1=9.62 B2=18.43 1967WHa (86947)4858
Zn++
Medium: 75% dioxan, 0.01 M. In 0.002 M: K1=9.92, K2=9.50
*********************************
C14H11N03
            H2L
                          CAS 7316-93-5 (5047)
N-Salicylideneanthranilic acid; HO.C6H4.CH:N.C6H4.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=4.65 B2=8.49 1972MGa (86951)4859
Medium: 50% dioxan, 0.1 M NaClO4
***********************************
C14H11N04
                          CAS 279-92-0 (3430)
2,2'-Iminodibenzoic acid; HOOC.C6H4.NH.C6H4.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl alc/w 25°C 50% U K1=4.48 B2=7.99 1973DSb (86965)4860
Medium: 50% EtOH, 0.2 M NaClO4
______
Zn++ gl diox/w 35°C 50% U K1=5.6
                              1958YSa (86966)4861
Zn++ gl diox/w 35°C 50% U K1=5.6 1958YSa (86967)4862
********************
                         CAS 156357-30-1 (8320)
N-(p-Carboxyphenyl)benzohydroxamic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=8.07 B2=14.29 1994JBb (86974)4863
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.
For N-(o-carboxyphenyl)benzohydroxamic acid, K1=7.70, K2=5.95.
***************************
C14H11N30
                          CAS 24854-76-0 (1380)
2-(1H-Benzimidazol-2-yl-methylene-amino) phenol;
_______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 60% U K1=7.80 19840Ra (86990)4864
Data also for 4-Cl- and 4-NO2- analogues
**************************
C14H11N502
                            (5046)
1,5-Bis(2-hydroxyphenyl)-3-cyanoformazan; HO.C6H4.N:N.C(CN):N.NH.C6H4.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    sp NaClO4 25°C 0.10M U
                                 1971BSf (87007)4865
                    K(ZnH4L2)=60.0
***********************************
C14H11N508S2
                          CAS 1105-53-9 (5084)
1,5-Bis(2-hydroxy-5-sulfophenyl)-3-cyanoformazan;
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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp NaClO4 25°C 0.10M U
                                 1971BSf (87013)4866
                     B(ZnH4L2) = 78.4
Zn++ gl NaNO3 20°C 0.10M U K1=15.97 1971SEa (87014)4867
********************
C14H1102NF2S HL
                           CAS 51679-49-3 (2928)
N-((3-Difluoromethylthio)phenyl)anthranilic acid;HOOC(C6H4).NH.(C6H4).S.CHF2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl mixed 22°C 90% U K1=2.70 1982GKb (87025)4868
Medium: 90% DMF/H20
**********************************
C14H1102NF2S
                          CAS 51679-50-4 (2929)
N-((4-Difluoromethylthio)phenyl)anthranilic acid;HOOC(C6H4).NH.(C6H4).S.CHF2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl mixed 22°C 90% U K1=2.59
                                1982GKb (87030)4869
Medium: 90% DMF/H20
**********************************
C14H12NOBr
                          CAS 20772-74-1 (6172)
N-(2-Hydroxy-5-bromobenzylidene)-4-methylaniline; HO(Br)C6H3.CH:N.C6H4.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl mixed 28°C 75% U K1=6.32 1988MNb (87038)4870
************************
C14H12NO2Cl
                           CAS 67055-92-9 (6301)
N-(3-Chlorophenyl)-4-methylbenzohydroxamic acid; CH3.C6H4.CO.N(C6H4Cl)OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 50% C M K1=8.30
                                 2001AMc (87058)4871
                       B(Zn(gly)L)=14.78
Medium: 50% v/v dioxane/H20
______
      gl diox/w 25°C 50% U K1=7.41 B2=13.56 1989PMb (87059)4872
Data also for 4-fluoro, 4-chloro, 4-bromo, 4-nitro and 4-methoxy analogues
*********************************
C14H12N03Cl
                           CAS 67135-47-1 (9106)
N-(3-Chlorophenyl)-N-hydroxy-4-methoxybenzamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 25°C 50% C M K1=8.35 2001AMc (87093)4873
                        B(Zn(gly)L)=14.97
```

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Medium: 50% v/v dioxane/H20
**********************************
                        CAS 484-11-7 (450)
2,9-Dimethyl-1,10-phenanthroline;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     dis KCl
           25°C 0.10M U K1=4.1 B2=7.7
                                 1962IMa (87120)4874
______
Zn++ gl KNO3 25°C 0.10M U K1=3.1 1956YSb (87121)4875
*************************
C14H12N2
                        CAS 3248-05-3 (3427)
4,7-Dimethyl-1,10-phenanthroline;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                   K1=6.90 B2=13.08 1963BMb (87142)4876
     dis oth/un 25°C 0.10M U
                     K3=6.04
     gl KNO3 25°C 0.10M U
                     K2=6.3
Zn++
                            1956YSb (87143)4877
                      K3 = 5.4
***********************************
C14H12N2
                        CAS 3002-81-1 (451)
5,6-Dimethyl-1,10-phenanthroline;
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     dis oth/un 25°C 0.10M U K1=6.87 B2=12.89 1963BMb (87156)4878 K3=5.71
************************************
C14H12N2OS
                          (7309)
Salicylaldehyde thiobenzoylhydrazone; HO.C6H4.CH:N.N:C(SH).C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                      K1=16.9 1998FHa (87163)4879
     gl diox/w 25°C 75% U
Medium: 75% (v/v) dioxane/water; 0.1 M KNO3.
*******************************
C14H12N2O2
                          (6311)
4-Hydroxy-3-formyl-2'-methylazobenzene; (HO)(CHO)C6H3.N:N.C6H4.CH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 28°C 50% U K1=4.88 B2=8.82 1975JTb (87172)4880
*******************************
C14H12N2O2
            HL
                          (6328)
4-Hydroxy-3-formyl-4'-methylazobenzene; (HO)(CHO)C6H3.N:N.C6H4.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
______
```

```
Zn++ gl diox/w 28°C 50% U K1=4.75 B2=8.71 1975JTb (87182)4881
***********************
                          (7307)
Salicylaldehyde benzoylhydrazone; HO.C6H4.CH:N.N:C(OH).C6H5
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 25°C 75% U K1=16.6 1998FHa (87190)4882
Medium: 75% (v/v) dioxane/water; 0.1 M KNO3.
*********************************
                         CAS 4870-46-6 (3432)
2-Hydroxy-5-methyl-2'-carboxy-azobenzene; HO.C6H3(CH3).N:N.C6H4.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_______
Zn++ sp none 25°C 0.0 U
                              1984MSc (87202)4883
                      K1=7.58
Zn++ gl diox/w 30°C 75% U K(Zn+H2L=ZnL+2H)=-8.0
_____
                               1957SFb (87203)4884
_____
Zn++ gl diox/w 30°C 75% U K1=12.39 1952SNa (87204)4885
********************************
C14H12N2O4
           H2L
                          (3433)
2,2'-Hydrazodibenzoic acid; HOOC.C6H4.NH.NH.C6H4.COOH
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 35°C 50% U K1=4.6 1958YSa (87237)4886
CAS 66751-18-6 (5048)
C14H12N4O
1-(5-Methyl-4-imidazolylazo)-2-naphthol;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl diox/w 25°C 50% U K1=11.6 B2=21.30 1968YTa (87306)4887
Medium: 50% dioxan, 0.1 M KNO3
***********************
                        CAS 74126-83-3 (5438)
C14H12N40
Di(2-pyridyl)-imidazol-2-yl-methanol;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.20M U K1=7.50 B2=14.17 1980BHa (87311)4888
**************************
C14H12N4O2Br2
                         CAS 72833-87-5 (2533)
2-(2-(3,5-Dibromopyridyl)azo)-5-dimethylaminobenzoic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp diox/w 25°C 40% C K1=6.27 1986KHa (87316)4889
```

```
***********************************
C14H12OS
                         CAS 15473-65-1 (5049)
3-Mercapto-1-(2'-naphthyl)but-2-en-1-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl diox/w 30°C 75% U K1=10.28 B2=20.26 1969UTa (87324)4890
Medium: 75% dioxan, 0.01 M Me4NI
**********************************
C14H12OS
                         CAS 15473-98-0 (5050)
4-Mercapto-4-(2'-naphthyl)but-3-en-2-one;
_____
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=9.88 B2=19.41 1969UTa (87326)4891
Medium: 75% dioxan, 0.01 M Me4NI
*********************************
                          CAS 982-76-3 (5058)
C14H13N0
N-(Salicylidene)-4-methylaniline; CH3.C6H4.N:CH.C6H4.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 27°C 50% U K1=5.05 1972SDb (87382)4892
Medium: 50% dioxan, 0.1 M NaClO4
***********************************
2'-Hydroxy-5'-methylbenzophenone oxime; HO(CH3)C6H3.C(:NOH)C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=6.15 1982UVa (87389)4893
********************
C14H13N02
                DPAHA
                         CAS 4463-22-3 (880)
2,2'-Diphenylacetohydroxamic acid; (C6H5)2.CH.CO.NH.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 20°C 50% U TIH K1=6.05 B2=10.80 1979RSb (87399)4894
DH(K1)=-24.9 kJ mol-1, DS=30.6 J K-1 mol-1, DH(K2)=-23.9, DS2=9
**********************************
C14H13N02
                N,2'-DPAHA
                         CAS 13663-57-5 (879)
N,2'-Diphenylacetohydroxamic acid; C6H5.CH2.CO.N(C6H5).OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl alc/w 30°C 50% U M K1=6.55 B2=11.05 1992RAa (87418)4895
                 B(ZnL(phen))=6.39
______
Zn++ gl alc/w 20°C 50% U T H K1=6.68 B2=11.33 1985RSd (87419)4896
30 C:K1=6.55, K2=4.50; 40 C, K1=6.43, K2=4.37; 50 C, K1=6.30, K2=4.23
```

```
DH(K1)=-27.5 \text{ kJ mol-1}, DS=34 \text{ J K-1 mol-1}; DH(K2)=-28.3, DS=5.6
-----
      gl alc/w 30°C 50% U T K1=6.55 B2=11.05 1981RSa (87420)4897
Medium: 50% v/v EtOH, 0.1 M KNO3
********************************
                         CAS 1503-92-0 (1817)
N-(4-Tolyl)benzohydroxamic acid; C6H5.CO.N(C6H4.CH3).OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl diox/w 30°C 50% U K1=9.96 B2=17.50 1994JBb (87439)4898
Medium: 50% v/v dioxane/H20, 0.10 M NaClO4.
-----
Zn++ gl diox/w 25°C 70% U K1=6.23 B2=11.42 1969JSa (87440)4899
******************************
                         CAS 1143-74-2 (4044)
N-2-Tolylbenzohydroxamic acid; C6H5.CO.N(C6H4.CH3).OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U
                       K1=9.57 B2=16.91 1994JBb (87472)4900
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.
Zn++ gl diox/w 25°C 50% U T K1=7.80 B2=14.55 1979AMa (87473)4901
At 35 C, K1=7.69, K2=6.62. Also data for the 4-methyl-, 4-methoxy-,
4-fluoro, 4-chloro-, 4-bromo- and 4-nitro-bezohydroxanic acid derivatives.
-----
Zn++ gl diox/w 25°C 50% U K1=8.19 B2=14.90 1972STf (87474)4902
______
                       K1=11.10 1968JSc (87475)4903
Zn++ oth diox/w 25°C 70% U
************************
C14H13N02
                         CAS 14489-88-4 (203)
N-3-Tolylbenzohydroxamic acid; C6H5.CO.N(C6H4.CH3).OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 70% U T K1=9.23 B2=16.99 1975SAa (87491)4904
**********************
                         CAS 17120-15-9 (380)
N-Phenyl-2-methylbenzohydroxamic acid; CH3.C6H4.CO.N(C6H5)OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
   gl diox/w 25°C 50% U TI K1=8.04 B2=14.44 1977AGb (87509)4905
-----
Zn++ gl diox/w 25°C 50% U T H K1=8.04 B2=14.44 1977AGc (87510)4906
At 35 C: K1=7.86, K2=6.21. DH(K1)=-31.7 and DH(K2)=-33.4 kJ mol-1
______
Zn++ gl diox/w 35°C 50% U K1=7.86 B2=14.07 1974ATa (87511)4907
______
```

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Zn++ oth diox/w 30°C 50% U K1=8.16 B2=14.86 1973ASa (87512)4908
************************
                         CAS 889-29-2 (6259)
N-Salicylidene-3-methoxyaniline; HO.C6H4.CH:N.C6H4.OCH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl alc/w 25°C 50% U K1=3.55 B2=6.60 1977DWa (87523)4909
**************************
C14H13N03
                           (1386)
2-Hydroxy-5-methoxybenzophenone oxime; HO(CH3O)C6H3.C(:NOH)C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U K1=5.59 1982UVa (87535)4910
*********************************
C14H13N03
                         CAS 51931-02-1 (5063)
N-(2-Hydroxy-1-naphthalidene)-beta-alanine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ oth NaClO4 30°C 0.10M U K1=4.95 1972MSe (87550)4911
CAS 34661-16-0 (1124)
N-Phenyl-2-methoxybenzohydroxamic acid; CH30.C6H4.CO.N(C6H5)OH
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ EMF diox/w 25°C 50% U T H K1=8.84 B2=15.66 1977AGc (87562)4912
At 35 C: K1=8.63, K2=6.65. DH(K1)=-36.9 and DH(K2)=-29.9 kJ mol-1
______
Zn++ gl diox/w 35°C 50% U K1=8.63 B2=15.28 1974ATa (87563)4913
*****************************
2-Aminobenzenesulfonic acid 2-hydroxyacetophenone Schiff base;
HS03.C6H4.N:C(CH3).C6H4.OH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Zn++ gl NaClO4 25°C 0.10M U T H K1=3.78
*********************************
                           (4045)
1-(4'-Acetylphenyl)-3-hydroxy-3-phenyltriazene;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl diox/w 25°C 70% U K1=7.79 B2=14.24 1964PSe (87592)4915
Medium: 70% dioxan, 0.1 M KCl
**********************************
                          CAS 40788-59-8 (6178)
C14H13N302S
             HL
```

```
2-Benzenesufonamidomethylbenzimidazole; C6H5SO2NHCH2C7H5N2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl mixed 20°C 50% M K1=8.12 1988NRa (87603)4916
Medium: 0.25 M NaClO4 in 50% acetone
______
Zn++ gl diox/w 30°C 50% C M K1=6.19 B2=11.99 1987MSd (87604)4917
                       K(Zn(gly)+L)=6.09
                       B(Zn(gly)L)=11.80
Medium: 50% v/v dioxane/H2O, 0.2 M NaNO3.
***********************************
                           (5394)
1-(2-Pyridylmethylideneamino)-3-(salicylideneamino)thiourea;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp mixed 25°C 40% U
                                1985RGa (87611)4918
                      K1eff=4.69
Medium: 40% DMF, pH 4.5
********************************
C14H13N502
1-(2-Pyridylmethylideneamino)-3-(salicylideneamino)urea;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ sp mixed 25°C 32% U
                                1985RGa (87621)4919
                      K1eff=4.50
Medium: 32% DMF, pH 4.5
**********************************
                         CAS 3064-56-0 (7013)
C14H13O2P
2-(Diphenylphosphino)-ethanoic acid; (C6H5)2P.CH2.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaCl04 25°C 0.10M U K1=1.3 1979POa (87630)4920
CAS 98240-13-2 (4033)
C14H14N4
N,N'-Bis(2'-picolinylidene)-1,2-diaminoethane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ dis non-aq 25°C 100% C M
                                20010Hb (87676)4921
Method: distribution from buffered 0.10 M NaCl into nitrobenzene.
K(Zn+3L(org)+2A=ZnL3A2(org))=14.4. HA is picric acid.
************************
4-Chloro-1,2-diaminobenzene-N,N,N',N'-tetraethanoic acid;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
gl KCl 25°C 0.10M U K1=12.35
                                  1990MDa (87737)4922
Zn++
                        B(ZnHL) = 15.54
*****************************
                          CAS 113749-54-5 (9003)
C14H15N3O2
N, N-Bis(2-pyridinylmethyl)glycine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M M K1=9.08 2002YKa (87753)4923
*************************
C14H15N50
                           CAS 74126-82-2 (5436)
2-Pyridyl-di(N-methylimidazol-2-yl)-methanol;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl KNO3 25°C 0.20M U K1=5.0 B2=9.30 1980BHa (87776)4924
***********************
                           CAS 220035-48-3 (8653)
alpha-Pyridoin 2-methylthiosemicarbazone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl diox/w 30°C 50% U TIH K1=8.43 B2=15.76 19980Fa (87781)4925
Medium: 50% H20/dioxane, 0.10 M KNO3. Data for 50% v/v H20/dioxane, I =
0.05-0.20 M, and for 40 and 50 C at I=0.10. DH and DS values.
*********************************
C14H15N5OS
                           CAS 220035-52-9 (8654)
              HL
alpha-Pyridoin 4-methylthiosemicarbazone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 50% U TIH K1=8.42 B2=15.72 19980Fa (87787)4926
Medium: 50% H20/dioxane, 0.10 M KNO3. Data for 50% v/v H20/dioxane, I =
0.05-0.20 M, and for 40 and 50 C at I=0.10. DH and DS values.
*********************************
                           CAS 25881-35-0 (1469)
Phenyl-N-(benzylamino)methylphosphonic acid; C6H5.CH(PO3H2).NH.CH2.C6H5
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl NaClO4 20°C 0.10M U K1=6.40
                                  1985SIb (87804)4927
                        K(Zn+HL)=3.00
**********************************
C14H16N04P
                           CAS 61146-25-6 (1470)
             H3L
2-Hydroxyphenyl-N-(benzylamino)methylphosphonic acid; C6H4(OH)CH(PO3H2).NH.CH2.C6H5
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Zn++ gl NaClO4 20°C 0.10M U K1=6.90
                                 1985SIb (87817)4928
```

```
K(Zn+HL)=3.20
```

```
**********************************
                           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
 -----
                         K1=1.0
      gl KNO3 20°C 0.10M U
                                  1970BAa (87833)4929
                        K(Zn+HL) < 1
**********************************
                           CAS 52411-34-4 (2475)
2,2'(1,2-Ethanediylbis(oxy))bisaminobenzene; H2N.C6H4.OCH2CH2O.C6H4.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 25°C 85% C T
                                  1983HBa (87857)4930
                        K1 < 1.3
**********************************
C14H16N2O8
                           CAS 40774-59-2 (1901)
1,2-Diaminobenzene-N,N,N',N'-tetraethanoic acid; C6H4(N(CH2.COOH)2)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaCl04 25°C 1.00M C H K1=12.89 1992ANb (87929)4931
By calorimetry: DH(K1)=4.1 kJ mol-1, DS=260 J K-1 mol-1
______
      cal NaClO4 25°C 1.00M U H K1=12.89
                                 1987MNa (87930)4932
DH(K1)=-4.1 \text{ kJ mol}-1; DS(K1)=260 \text{ J K}-1 \text{ mol}-1
                         K1=12.89
Zn++ gl NaClO4 25°C 1.00M C
                                  1985NKa (87931)4933
                         K(ZnL+H)=2.96
                         K(ZnHL+H)=1.3
                         K(ZnH-1L+H)=11.4
******************
C14H16N2O8
                           CAS 103012-22-2 (1904)
1,3-Diaminobenzene-N,N,N',N'-tetraethanoic acid; C6H4(N(CH2.COOH)2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                         K1=5.20
     gl KCl
             25°C 0.10M U
                                  1968UHa (87980)4934
                         K(Zn+H2L)=1.8
                         K(Zn+HL)=3.95
                         B(Zn2L)=7.40
*******************************
C14H16N2O8
             H4L
                             (6108)
1,3-Phenylenediamine-N,N'-disuccinic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaCl 25°C 0.50M C M K1=3.966
                                 1989FRa (87986)4935
```

```
B(ZnH2L)=11.768
                             B(ZnHL)=8.483
                             B(Zn2L)=6.040
                             B(ZnLA)=6.59
B(ZnHLA)=12.35,B(ZnHLB)=11.68,B(ZnH2LB)=16.22,B(ZnH3LB)=20.22,B(ZnHLC)=11.74
B(ZnH2LC)=15.84, B(ZnH3LC)=20.23. H2A=Oxalic, H2B=Malonic, H2C=Succinic acid
**********************************
                                CAS 3020-07-3 (1905)
C14H16N208
1,4-Diaminobenzene-N,N,N',N'-tetraethanoic acid; C6H4(N(CH2.COOH)2)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl KCl
Zn++
              25°C 0.10M C
                             K1=5.31
                                        1997GHc (88001)4936
                             B(ZnH2L)=13.85
                             B(ZnHL)=9.33
                             B(Zn2L2)=15.46
                             B(Zn2HL2)=19.84
B(Zn3HL3)=29.73, B(ZnH3L2)=24.02, B(Zn2H2L2)=23.83, B(Zn3L3)=25.77,
B(ZnH4L2)=27.22, B(ZnHL2)=16.30, B(Zn2L)=9.14, B(ZnH2L2)=20.74.
********************************
C14H16N2O8
               H4L
                                CAS 91856-15-4 (8449)
1,4-Phenylenediamine-N,N'-disuccinic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                             K1=5.32 B2= 8.29 1984RFe (88007)4937
      gl NaCl 25°C 0.50M C
                             B(ZnH2L)=12.2
                             B(ZnHL)=9.47
                             K(Zn+H2L)=0.95
                             K(Zn+HL)=2.84
********************************
C14H17N2O4P
               H3L
                                  (1472)
2-Hydroxyphenyl-N-(2-(2'-pyridyl)ethylamino)methylphosphonic
acid; C6H4(OH)CH(PO3H2)NHCH2CH2C5H4N
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaClO4 20°C 0.10M U
                            K1 = 8.15
                                        1985SIb (88037)4938
                             K(Zn+HL)=4.05
********************************
                    Pipemidic acid CAS 51940-44-4 (2535)
C14H17N503
8-Ethyl-5,8-dihydro-5-oxo-2-(1-piperazinyl)pyrido[2,3-d]pyrimidine-6-carboxylic
acid;
                                        Reference ExptNo
      Mtd Medium Temp Conc Cal Flags Lg K values
______
       sp oth/un 25°C 0.05M C
                                        2000MPa (88054)4939
                             K1eff=3.45
Medium: 0.05 M ethanoate buffer, pH=5.5. Method: spectrofluorimetry.
*********************************
```

```
C14H18N2O
             HL
                            (5069)
1-Phenyl-3-methyl-4-butylpyrazol-5-one;
-----
                                  Reference ExptNo
     Mtd Medium Temp Conc Cal Flags Lg K values
___________
Zn++ dis NaClO4 ? 0.10M U K1=3.03 B2=6.06 1971NSb (88057)4940
**********************************
                            (7898)
1-(2-Hydroxyphenyl)-2,5-diaza-8-oxonona-1,5-diene;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl alc/w 25°C 0.2M U
                        K1=4.78
                              1999MTc (88061)4941
Medium: 0.2 M KCl in 3:7 v/v H20/EtOH
**********************************
                 Aspartame
                          CAS 22839-47-0 (417)
Aspartyl-phenylalanine methyl ester; H2NCH(CH2COOH)CONHCH(CH2Ph)COOCH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl NaClO4 37°C 0.15M C
                        K1=3.80 B2=6.87 1976MTa (88074)4942
                        B(ZnHL)=9.33
                        B(ZnHL2)=13.21
                        B(ZnH-1L)=-4.7
*********************************
                 HIDA
N-(2,6-Dimethyl-phenylcarbamoylmethyl)iminodiethanoic acid;
(CH3)2C6H3.NH.CO.CH2.N(CH2.COOH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                        K1=6.62 B2=8.47 1992GLa (88080)4943
      gl NaClO4 25°C 0.50M U
                        B(ZnH-1L)=-0.73
                        B(ZnH-2L)=-10.69
*********************************
                 DPEN
                           CAS 4608-34-3 (1850)
N,N'-Bis-(2-pyridylmethyl)-1,2-diaminoethane; (C5H4N.CH2.NH.CH2)2
-----
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
      gl KNO3
            25°C 0.10M U H K1=11.13
                                1975APc (88099)4944
DH(K1)=-47.3 kJ mol-1, DS=54.8 J K-1 mol-1
______
Zn++ gl KCl 25°C 0.10M U K1=11.4
                                 1968GRa (88100)4945
-----
Zn++ gl oth/un 25°C 0.10M U K1=11.5 1964PCa (88101)4946
*******************
                          CAS 432038-60-3 (8908)
N-Acetyl-L-histidyl-L-histidine;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                        K1=3.35 2002VVa (88120)4947
     gl KNO3 25°C 0.10M C
                       B(ZnH-1L)=-3.74
CAS 41070-28-4 (5035)
2-Toluoyl pivaloyl methane; CH3.C6H4.CO.CH2.CO.C(CH3)3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=9.66 B2=18.69 1972UDa (88123)4948
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
**********************************
            HL
C14H1802
                          CAS 41070-24-0 (5036)
4-Toluoyl pivaloyl methane; CH3.C6H4.CO.CH2.CO.C(CH3)3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl diox/w 30°C 75% U K1=9.98 B2=19.03 1972UDa (88128)4949
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
**********************************
            HL
C14H18O3
                          CAS 41070-25-1 (5037)
2-Anisoyl pivaloyl methane; CH30.C6H4.CO.CH2.CO.C(CH3)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 30°C 75% U K1=10.01 B2=18.72 1972UDa (88133)4950
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
************************
       HL
C14H18O3
                          CAS 41070-23-9 (5038)
4-Anisoyl pivaloyl methane; CH30.C6H4.CO.CH2.CO.C(CH3)3
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl diox/w 30°C 75% U K1=10.0 B2=19.11 1972UDa (88138)4951
Medium: 75% v/v dioxan, 0.01 M Me4NClO4
********************************
                         CAS 432038-56-7 (8907)
C14H20N6O3
L-Histidyl-L-histidine ethyl ester;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C K1=5.70 2002VVa (88189)4952
                        B(ZnHL)=11.70
                        B(ZnH-1L)=-1.20
                        B(ZnH-2L)=-10.26
*********************************
                 Benzo15-crown-5 CAS 14098-44-3 (608)
C14H2005
2,3-Benzo-1,4,7,10,13-pentaoxacyclopentadeca-2-ene;
```

Metal	MTa	mealum	lemp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Zn++ Medium: 90				90%				2003ISa (88206)4953
Medium: 40	9% v/v	/ EtOH/H	120.		С		K1=2.01	2001ISa (88207)4954
Zn++ Medium: ac ******** C14H21NO7	nmr cetoni	non-aq itrile. *****	27°C Metho *****	100% od: co *****	C ompe	titive *****	K1=3.44 7Li nmr technic	2000SMg (88208)4955 que. *******
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
	J						B(ZnH-1L)=-5.4 B(ZnH2L2)=20.8	.33 1992VDa (88406)495
**************************************	5		HL	Gly	'G1yl	HisGly	Gly CAS 60343-8	
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference ExptNo
Zn++	gl	KNO3	37°C	0.15M	·		K1=2.91 B(ZnHL)=9.46 B(ZnH-1L)=-4.23 B(Zn2L2)=9.06 B(Zn2H-1L2)=2.24	1977APa (88418)4957 4
**************************************	gl *****	KNO3	37°C *****	0.15M	· · I U · · · · · · ·	****	K1=2.91 B(ZnHL)=9.46 B(ZnH-1L)=-4.23 B(Zn2L2)=9.06 B(Zn2H-1L2)=2.24	1977APa (88418)4957 4 ***********************************
**************************************	gl ***** B	KNO3 *******	37°C ****** H4L bhexar	0.15M ****** CDT ne-N,N	:***: A I,N'	***** ,N'-te	K1=2.91 B(ZnHL)=9.46 B(ZnH-1L)=-4.23 B(Zn2L2)=9.06 B(Zn2H-1L2)=2.24 ***********************************	1977APa (88418)4957 4 ***********************************
**************************************	gl ***** Gliami Diami Mtd Vlt	******* inocyclo Medium	37°C ***** H4L bhexar Temp	****** CDT ne-N,N Conc	:*** A I,N' Cal	***** ,N'-te Flags 	K1=2.91 B(ZnHL)=9.46 B(ZnH-1L)=-4.23 B(Zn2L2)=9.06 B(Zn2H-1L2)=2.24 ****************** CAS 482-54 traethanoic acid	1977APa (88418)4957 4 *************** -2 (200) d; Reference ExptNo 1967JGb (88528)4958
**************************************	#***** Briant Mtd Vlt O.1) cal	******* inocyclc Medium KNO3	37°C ***** H4L bhexar Temp 25°C	****** CDT ne-N,N Conc 1.0M	:***: A I,N' Cal	***** ,N'-te Flags I T H mol-1	K1=2.91 B(ZnHL)=9.46 B(ZnH-1L)=-4.23 B(Zn2L2)=9.06 B(Zn2H-1L2)=2.24 ***********************************	1977APa (88418)4957 4 ************* -2 (200) d; Reference ExptNo 1967JGb (88528)4958
**************************************	#***** Binding for the state of the state o	******* inocyclc Medium KNO3 KNO3 J mol-1, KNO3 KNO3	37°C ***** H4L bhexar Temp 25°C DS=2 20°C DS=34	******* CDT ne-N,N Conc 1.0M 0.10M 247 J 0.10M	:***: A I,N'. Cal I U K-1	***** ,N'-te Flags I T H mol-1 T H mol-1	K1=2.91 B(ZnHL)=9.46 B(ZnH-1L)=-4.23 B(Zn2L2)=9.06 B(Zn2H-1L2)=2.24 ***********************************	1977APa (88418)4957 4 ************ -2 (200) d; Reference ExptNo 1967JGb (88528)4958 1965WHa (88529)4959
**************************************	gl ***** Diam Olim O	******* inocyclo Medium KNO3 KNO3 J mol-1, KNO3 mol-1, KNO3	****** H4L bhexar Temp 25°C DS=2 20°C DS=34	******* CDT ne-N,N Conc 1.0M 247 J 0.10M 12 J K	**** A I,N' Cal I U K-1 I U C-1 I U	***** ,N'-te Flags I mol-1 T H mol-1	K1=2.91 B(ZnHL)=9.46 B(ZnH-1L)=-4.23 B(Zn2L2)=9.06 B(Zn2H-1L2)=2.24 ***********************************	1977APa (88418)4957 4 *************** -2 (200) d; Reference ExptNo 1967JGb (88528)4958 1965WHa (88529)4959 1963ANb (88530)4960 1963ANf (88531)4961

```
vlt KNO3 20°C 0.10M U
Zn++
                          K1=18.67
                                    1954SGa (88533)4963
                         K(ZnL+H)=4.07
**********************************
C14H22N2O10
                              (1083)
1-Carboxy-1,5-diaminopentane-N,N,N',N'-tetraethanoic acid;
(HOOCCH2)2NCH(COOH)(CH2)4N(CH2COOH)2
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M U
                          K1=13.30
                                    1988TGe (88895)4964
                         K(Zn+H2L)=3.71
                         K(Zn+HL)=10.38
                         B(Zn2L)=18.70
                         B(Zn2L2)=29.62
*K(ZnH2L)=-3.21, *K(ZnHL)=-6.02.
*********************************
C14H22N4O
1-((6-(Dimethylamino)methyl)-2-pyridyl)methyl)hexahydro-5H-1,4-diazepin-5-one;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      gl NaClO4 50°C 0.50M C K1=4.32
                                   1984GCb (88908)4965
Data also for complex with other lactam.
*********************************
             H3L HETPP
C14H22N408P2S
                            CAS 10241-38-0 (6093)
2-(1 Hydroxyethyl)thiamine pyrophosphate;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++
     gl KCl 25°C 0.20M U
                                    2000MLa (88911)4966
                         K(2Zn+2HL+2H=Zn2H4L2)=21.62
                         K(2Zn+2HL+H=Zn2H3L2)=16.45
                         K(2Zn+2HL=Zn2H2L2)=11.01
*******************************
C14H22N4O9
             H3L
                  Ala-Ala-Asp-Asp (6444)
Alanyl-alanyl-aspartyl-aspartic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
                          K1=3.77
      gl KNO3 25°C 0.10M C
                                   1995KLa (88916)4967
                         B(ZnH-1L)=-4.77
                         B(ZnH-2L)=-14.42
******************
                                 ********
             H3L
                  Ala-Asp-Ala-Asp (6443)
Alanyl-aspartyl-alanyl-aspartic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·-----
                          K1=3.84 1995KLa (88920)4968
Zn++ gl KNO3 25°C 0.10M C
                         B(ZnH-1L)=-4.73
```

```
B(ZnH-2L)=-13.77
******************************
                 Ala-Asp-Asp-Ala (6442)
Alanyl-aspartyl-aspartyl-alanine;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values
 K1=3.69 1995KLa (88924)4969
     gl KNO3 25°C 0.10M C
Zn++
                        B(ZnH-1L)=-4.50
                        B(ZnH-2L)=-13.10
***********************************
                               ********
C14H22N4O9
                 Asp-Ala-Ala-Asp (6441)
Aspartyl-alanyl-alanyl-aspartic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                        K1=4.88 1995KLa (88928)4970
     gl KNO3 25°C 0.10M C
                        B(ZnH-1L)=-4.00
                        B(Zn(H-3L)=-12.57
********************************
                           CAS 204922-29-2 (7538)
1-(2,4-Dinitrophenyl)-1,4,7,10-tetraazadodecane;
-----
                                 Reference ExptNo
Metal Mtd Medium Temp Conc Cal Flags Lg K values
______
     gl NaNO3 25°C 0.10M C K1=7.89 1998KGa (88960)4971
*******************************
C14H22N605
                 Asp-Ala-His-Me CAS 66277-14-3 (2223)
             HL
Aspartyl-alanyl-histidine-N-methylamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 25°C 0.10M C M K1=4.17 B2=6.43 1983D0a (88974)4972
                        B(ZnHL)=10.02
                        B(ZnH-1L)=-4.09
                        B(CuZnH-2L)=0.39
     gl KNO3 25°C 0.16M M
                        K1=4.75 B2=8.15 1979LSa (88975)4973
Zn++
                        B(ZnHL)=9.95
                        B(ZnH-1L)=-4.34
*********************************
C14H22N8O2
                            (7443)
N,N'-Di(histidyl)-1,2-diaminoethane; C3H3N2CH2CH(NH2)CONHCH2CH2NHCOCH(NH2)CH2C3H3N2
-----
                                   Reference ExptNo
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Zn++ gl NaCl 25°C 0.10M C T
                                  1998TGa (88981)4974
                        B(ZnHL)=12.33
                        B(Zn2L2)=16.47
                        B(Zn4H-4L2)=-2.29
```

```
B(Zn4H-5L2)=-11.56
```

		3(ZnH-2L)=-11.77. Al		
C14H22O5 Di(hepta-4	,6-dione)et	H2L her, (CH3.CO.CH2.CO		-29-1 (2250)
Metal	Mtd Medium	1 Temp Conc Cal Flag	s Lg K values	Reference ExptNo
Zn++ *******	gl diox/w	. 24°C 50% U	K1=8.8 *******	1979ACa (88987)4975 *******
C14H2208S4		H4L propanoic acid; (CH.	(1160)	
Metal	Mtd Medium	1 Temp Conc Cal Flag	s Lg K values	Reference ExptNo
				1975PJa (88997)4976 *******
C14H23N3O1 Diethylene	-	H5L DTPA	CAS 67-43- OOC.CH2.N(CH2.CH	` '
Metal	Mtd Medium	1 Temp Conc Cal Flag	s Lg K values	Reference ExptNo
Zn++	gl NaClO4	↓ 25°C 0.10M C	K1=18.29 K(ZnL+H)=5.60 K(ZnHL+H)=3.06	2001CCa (89087)4977
		25°C 0.10M C nmetry. Medium: pH 10		2001CKb (89088)4978
Zn++	nmr mixed	25°C 0.10M U	K(LaL+Zn)=1.53	1998LVa (89089)4979
		dium: 30% D2O/H2O, 0 emation of borate es	.1 M metal ion,	pH=6.5.
Zn++	gl NaCl	37°C 0.15M C	K1=17.45 B2=2 B(ZnHL)=22.53 B(ZnH2L)=24.88	21.78 1984DMb (89090)4980
DH=-44.3 k	J mol-1			1974DTa (89091)4981
Zn++	sp oth/ur		K1=18.73	1968KAb (89092)4982
Zn++	cal KNO3	20°C 0.10M U T H 1, DS=230 J K-1 mol-:		1965ANa (89093)4983
		25°C 0.10M U H L, DS=209 J K-1 mol-:		1965WHa (89094)4984
Zn++	EMF KNO3	25°C 0.10M U	K1=18.8	1960HRa (89095)4985

zn++	gl	KNO3	25°C	0.10M C	K1=18.0 K(ZnL+H)=5.6	1960WAa (89096)4986
Zn++	EMF	oth/un	20°C	0.10M U	K1=18.75 K(ZnL+Zn)=4.36 K(Zn+HL)=13.40	1959ANd (89097)4987
 Zn++	gl	KNO3	25°C	0.10M U	K1=18.3 B2=2	22.8 1959CFc (89098)498
******** C14H23N3S2	**** <u>2</u>	*****	***** L	*******	CAS 771500	1958DRa (89099)4989 ***********************************
	 pprop	yı)-2,8	-artn.	.a-5-aZa- 	2,6-pyridinophane;	
1etal	Mtd	Medium	Temp	Conc Cal	Flags Lg K values	Reference ExptNo
Zn++	gl	R4N.X	25°C	0.10M C	K1=8.5 K(ZnL+H)=6.0 K(ZnL+OH)=6.1	2004BBe (89457)4990
Medium: 0.			~ ~ ~ ~ ~ ~	.	, ,	******
C14H23N5O5 N-Acetyl-c	SS2 cyste:	inyl-(R	H2L		(7586) amide;	• • • • • • • • • • • • • • • • • • •
CH3CONHCH((CH2.	SH)CONH	C4H5N0	OCH2CONHC	H(CH2SH)CONH2	
						Reference ExptNo
Metal Zn++	Mtd gl	Medium KNO3	Temp 25°C	Conc Cal 0.10M C	Flags Lg K values K1=9.25 B(Zn2L2)=23.34	1998GGb (89465)4991
Metal Metal Zn++ ********	Mtd Mtd gl ****	Medium KNO3 *****	Temp 25°C *****	Conc Cal 0.10M C	Flags Lg K values K1=9.25 B(Zn2L2)=23.34	1998GGb (89465)4991 ********
Metal Zn++ ********* C14H24N2O7 N-(2-Hydro	Mtd gl ******	Medium KNO3 ******	Temp 25°C ***** H3L l)ethy	Conc Cal 0.10M C *********	Flags Lg K values K1=9.25 B(Zn2L2)=23.34 **********************************	1998GGb (89465)4991 ********
Metal Zn++ ********* C14H24N2O7 N-(2-Hydro Metal Zn++ *********************************	Mtd gl ***** Oxycy Mtd gl *****	Medium KNO3 ****** clohexy Medium oth/un ******	Temp 25°C ***** H3L 1)ethy Temp 25°C *****	Conc Cal 0.10M C ******* /lenediam Conc Cal 0.10M U *******	Flags Lg K values K1=9.25 B(Zn2L2)=23.34 ************************ (3440) ine-N,N',N'-triethand	1998GGb (89465)4991 ********* Dic acid; Reference ExptNo 1960SAc (89488)4992 **********************************
Metal ********* C14H24N2O7 N-(2-Hydro Metal Zn++ ********* C14H24N2O8	Mtd gl ****** 7 oxycy Mtd gl ****** 3 noeth	Medium KNO3 ****** clohexy Medium oth/un ******* ane-N,N	Temp 25°C ***** H3L 1)ethy Temp 25°C ***** H4L '-diet	Conc Cal 0.10M C ******* /lenediam Conc Cal 0.10M U ******* chanoic-N Conc Cal	Flags Lg K values K1=9.25 B(Zn2L2)=23.34 ******************* (3440) ine-N,N',N'-triethand Flags Lg K values K1=15.02 ***************** (5075) ,N'-di-2-butyric acid Flags Lg K values	1998GGb (89465)4991 ********* Dic acid; Reference ExptNo 1960SAc (89488)4992 **********************************
Metal	Mtd gl ***** Oxycy Mtd gl ***** Mtd Vlt	Medium KNO3 ****** clohexy Medium oth/un ****** ane-N,N Medium KNO3	Temp 25°C ***** H3L 1)ethy 25°C ***** H4L '-diet Temp Temp	Conc Cal	Flags Lg K values K1=9.25 B(Zn2L2)=23.34 ******************* (3440) ine-N,N',N'-triethand Flags Lg K values K1=15.02 ******************* (5075) ,N'-di-2-butyric acid Flags Lg K values K1=16.04	1998GGb (89465)4991 ********* Dic acid; Reference ExptNo 1960SAc (89488)4992 **********************************
Metal ********* C14H24N2O7 N-(2-Hydro Metal Zn++ ******** C14H24N2O8 1,2-Diamin Metal Metal Zn++ ********************************	Mtd gl ***** 7 Oxycy Mtd gl ***** Mtd Mtd Vlt *****	Medium KNO3 ****** clohexy Medium oth/un ******* ane-N,N Medium KNO3 ******	Temp 25°C ***** H3L l)ethy 25°C ***** H4L '-dief Temp 20°C *****	Conc Cal O.10M C ******* /lenediam Conc Cal O.10M U ******* chanoic-N Conc Cal O.10M U ********	Flags Lg K values K1=9.25 B(Zn2L2)=23.34 ************************* (3440) ine-N,N',N'-triethand	1998GGb (89465)4991 ********* Dic acid; Reference ExptNo 1960SAc (89488)4992 **********************************

```
Zn++ vlt KNO3 20°C 0.10M U K1=18.18 1974NLa (89524)4994
********************************
              H4L HMDTA
                              CAS 1633-00-7 (920)
1,6-Diaminohexane-N,N,N',N'-tetraethanoic acid; ((HOOC.CH2)2N.CH2.CH2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KNO3 20°C 0.10M U H K1=12.68
                                     1964ANa (89553)4995
                           K(Zn+HL)=8.15
                           K(ZnL+Zn)=3.7
By calorimetry:DH(K1)=-16.7 kJ mol-1, DS=186 J K-1 mol-1
********************************
              H4L
                              CAS 1633-00-7 (5076)
4-Methyl-1,2-diaminopentane-N,N,N',N'-tetraethanoic acid;
(HOOCCH2)2NCH2CH(N(CH2COOH)2CH2CH(CH3)2
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                       Reference ExptNo
-----
Zn++ vlt KNO3 20°C 0.10M U K1=18.03 1968NLb (89622)4996
**********************************
                   EDTP
C14H24N2O8
              H4L
                               (2936)
Diaminoethane-N,N,N',N'-tetrapropanoic acid; (HOOC.CH2CH2)2N.CH2CH2.N(CH2CH2.COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Zn++ gl NaClO4 25°C 0.10M C I
                          K1=9.31
                                     1989LKa (89669)4997
                          B(ZnHL)=13.71
______
Zn++ gl KCl 30°C 0.10M U K1=7.8 1953CCb (89670)4998
*******************************
                              CAS 87720-52-3 (1593)
C14H24N2O9
2,2'-Oxybis(propyliminodiethanoic acid)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Zn++ gl KCl
             20°C 0.10M U
                           K1=13.53
                                     1961ISa (89701)4999
                           K(Zn+HL)=9.19
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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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