```
Software version = 5.81 Data version = 4.62
Experiment list contains 128 experiments for
(no ligands specified)
2 metals : Sb(V), Sb+++
(no references specified)
(no experimental details specified)
************************************
              HL
                  Electron
                               (442)
Electron:
        Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb(V) oth none 25°C 0.0 U
                                    1952LAb (922) 1
                          K=22.7(692 \text{ mV?})
K: 0.5Sb205(s)+2H+2e=0.5Sb203(s)+H20. From thermodynamic data
______
Sb(V) EMF oth/un 25°C 6.0M U I
                                    1949BSa (923) 2
                          K=27.66(818 \text{ mV})
Medium: HCl. K: Sb+2e=Sb(III). K=26.51(4.5 M;784 mV), 25.22(3.5 M;746 mV)
______
Sb(V) EMF oth/un 20°C 10.0M U I
                                    1923GSa (924) 3
                          K=-20.3(-589 \text{ mV})
Medium: KOH. K: Sb+2e=Sb(III). K=-19.3(7.5 M;-561 mV),-17.7(5 M;-516 mV),
-14.7(3 M:-428 mV)
***********************************
C1-
              HL
                  Chloride
                            CAS 7647-01-0 (50)
Chloride;
          ______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb(V) oth oth/un 25°C 0.0 C K1=0.34 1975AAc (5672) 4
Method: use of Zr-PO4 as competitive cation-exchanger for 124Sb.
Medium: 0.01-4.0 M HCl.
______
                                    1972CMd (5673) 5
Sb(V) dis oth/un 25°C var U
                          K((C6H5)3Sb+L)=2
                          K((C6H5)3SbL+L)=0.5
Sb(V) EMF non-aq 25°C 100% U
                                    1971DTb (5674) 6
                         K6=5.45
Medium: SeOCl2, 0.5 M Et4NClO4
______
Sb(V)
      dis oth/un
                 0.0 U
                                    1965DIa (5675) 7
                          K(SbL3(OH)3+H+L)=-3.07
                          K(SbL4(OH)2+H+L)=-3.46
                          K(SbL5(OH)+H+L)=-4.28
______
Sb(V) dis oth/un ? 0.0 U
                                    1963IDa (5676) 8
```

SC-Database

```
K((SbOL)3+SbOL)=-3.22
                         K((SbOL)4+SbOL)=-3.48
                         K((SbOL)5+SbOL)=-4.06
Sb(V) ISE non-ag ? 100% U
                                   1959BGf (5677) 9
                      K(SbL3OPL3=SbL6+POL2)=-5.4
Medium: POCl3
-----
Sb(V) sp oth/un 25°C 9.0M U
                                  1956NRa (5678) 10
Medium: LiCl. K(SbL50H+H+Cl=SbL6+H20)=-4.34 (or -4.65 ?)
______
Sb(V) sp oth/un 26°C var U 1954NEa (5679) 11
Medium:HCl. K(SbL4(OH)2+H+L=SbL5OH+H2O)=-3.43, K(SbL5OH+H+Cl=SbL6+H2O)=-4.65
********************************
             HL Perchlorate CAS 7001-90-3 (287)
C104 -
Perchlorate;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb(V) cal oth/un 25°C dil U H
                                  1972CJa (6375) 12
                      Kso(Ph4SbL(s)=Ph4Sb+L)=-7.46
DH(Kso)=48.1 kJ mol-1, DS(Kso)=21 J K-1 mol-1
****************************
           HL Fluoride CAS 7644-39-3 (201)
Fluoride;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb(V) dis oth/un 25°C var U
                                   1972CMd (7140) 13
                         K((C6H5)3Sb+F)=4
                         K((C6H5)3SbF+F)=3
                          1965TBa (7141) 14
Sb(V) con non-aq 25°C 100% U
                         K(HSbF5X+HX=SbF5X+H2X)=-2.43
                         K(2HSbF5X=Sb2F10X+H2X)=-2.15
                         K(Sb2F4X7+2HX=2SbF2X4+H2X)=-2
Medium: liquid HSO3F. HX=HSO3F
-----
Sb(V) sol non-aq 0°C 100% U
                                   1961CKa (7142) 15
                         K(KSbF6(s)=K+SbF6)=-1.23
                         K(T1SbF6(s)=T1+SbF6)=-3.56
Medium: liquid HF, I=0 corr.
----
                     -----
Sb(V) oth non-aq ? 100% U
                                   1961HQa (7143) 16
                         K(2HF+SbF5=H2F+SbF6)=-1.14
                         K(H2F+SbF6)=2.23
Method; ir. Medium: liquid HF
**********************************
H20
                 Water
                           CAS 7732-18-5 (6115)
Water
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      cal non-aq 25°C 100% U H
                                 19670La (7611) 17
Medium: C2H4Cl2. DH(SbCl5+H2O)=-101.6 kJ mol-1 in C2H4Cl2(1)
****************
I-
             HL
                Iodide
                       CAS 10034-85-2 (20)
Iodide:
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
     dis oth/un 25°C var U
                                 1972CMd (8371) 18
                        K((C6H5)3Sb+L)=1.5
                        K((C6H5)3SbL+L)=-0.4
********************************
OH-
             HL
                Hydroxide
                           (57)
Hvdroxide:
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Sb(V) dis oth/un 25°C
                   U
                                 1972CMe (12088) 19
                        K(R3SbF2+OH=R3SbOHF+F)=7.5
                        K(R3SbC12+OH=R3SbOHC1+C1)=9.5
                        K(R3SbI2+OH=R3SbOHI+I)=10
R=C6H5
-----
Sb(V) dis oth/un 25°C
                  U
                                 1972CMe (12089) 20
                        K(R3SbOHF+OH=R3Sb(OH)2+F)=5
                        K(R3SbOHC1+OH=R3Sb(OH)2+C1=7.5
                        K(R3SbOHI+OH=R3Sb(OH)2+I)=8.5
R=C6H5
***********************************
                 L-Tartaric acid CAS 87-69-4 (92)
L-Tartaric acid, L-2,3-Dihydroxybutanedioic acid; HOOC.CH(OH).CH(OH).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb(V) oth oth/un ? ? U M
                                1972MFb (31345) 21
K(2Sb(OH)3(H-1L)=Sb2(OH)4(H-2L)2)=1.26
*******************************
                          CAS 6028-95-2 (5005)
C13H90ClS
1-(2-Thienyl)-3-(4'-chlorophenyl)propen-3-one;
__________
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb(V) sp non-aq ? 100% U
                                 1966TLa (84666) 22
                        K(SbC15+L)=3.93
Medium: benzene
***********************************
                          CAS 3988-77-0 (4979)
C13H100S
```

```
1-(2'-Thienyl)-3-phenylprop-1-en-3-one; C4H3S.CH:CH.CO.C6H5
   -----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb(V) sp non-aq ? 100% U M
                               1966TLa (84969) 23
                      K(SbC15+L)=3.18
Medium: 50% dioxan, 0.1 M NaClO4
*********************************
C14H12OS
                        CAS 6028-90-4 (5051)
3-(4'-Methylphenyl)-1-(2'-thienyl)prop-1-en-3-one;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Sb(V) sp non-aq ? 100% U M
                               1966TLa (87322) 24
                      K(SbC15+L)=3.32
Medium: benzene
***********************************
                         CAS 6028-93-9 (5054)
3-(4'-Methoxyphenyl)-1-(2'-thienyl)prop-1-en-3-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                    M
Sb(V) sp non-aq ? 100% U
                               1966TLa (87335) 25
                      K(SbC15+L)=4.02
Medium: benzene
***********************************
                          (5112)
3-(4'-Ethylphenyl)-1-(2'-thienyl)prop-1-en-3-one;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb(V) sp non-aq ? 100% U M
                               1966TLa (91767) 26
                      K(SbC15+L)=3.91
Medium: benzene.
***********************************
                         CAS 40766-17-4 (5273)
3-Biphenyl-1-(2-thienyl)prop-1-en-3-one;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb(V) sp non-aq ? 100% U
                               1966TLa (99072) 27
                      K(SbC15+L)=3.06
Medium: benzene.
**********************************
            HL Electron
                          (442)
Electron;
         -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb+++ EMF none 25°C 0.00 U T
                               1973VSa (925) 28
```

```
K=30.51(150.4mV)
K=Sb406(s) + 12H+ + 12e=4Sb(s) + 6H20. K=32.43(154.5mV,15 C), 28.81(146.8mV,
35 C), 26.03(139.1mV,50 C)
_____
Sb+++ EMF none 25°C 0.00 U
                                      1973VSa (926) 29
                          K=-32.40(-638.9 \text{mV})
K=SbO2- + 2H2O + 3e=Sb(s) + 4OH-
-----
Sb+++ EMF none 25°C 0.00 U T
                                     1972VSa (927) 30
                           K=10.35(204.0mV)
K=SbO+ + 2H+ + 3e=Sb(s) + H2O. K=11.05(210.5mV, 15 C), 9.83(200.3mV, 35 C),
9.30(198.8mV,50 C)
______
Sb+++ EMF none 25°C 0.0 U
                                     1924SCa (928) 31
                           K=7.71(152 \text{ mV})
K: 0.5Sb203(s)+3H+3e=Sb(s)+1.5H20. K(Sb0+2H+3e=Sb(s)+H20)=10.76(212 mV)
_____
                                      1923GSa (929) 32
Sb+++ EMF oth/un 20°C 10.0M U
                          K=-34.8(-675 \text{ mV})
Medium: KOH. K: Sb(OH)4+3e=Sb(s)+4OH?
**********************************
              HL Chloride CAS 7647-01-0 (50)
C1-
Chloride;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      vlt oth/un 22°C 4.0M C I
                          K1=0.96 B2= 1.52 1975BZa (5680) 33
                           B3=1.45
                           B4=1.04
Method: polarography. Medium: NaCl/HCl/HClO4 (total acid = 0.5 M).
For total acid = 4.0 \text{ M}: B2=3.39, B3=4.09.
Sb+++ vlt NaClO4 20°C 4.70M U
                          K1=1.05 B2=1.90 1975KBb (5681) 34
                           B3=2.20
                           B4=1.95
                          B5=1.10
                          K1=2.30 B2=4.1 1970BWb (5682) 35
Sb+++ vlt NaClO4 30°C 2.0M U
                           B3=5.8 to 6.0
                           B4=6.8 to 7.2
Sb+++ EMF oth/un 99°C 100% U
                                      1969BBa (5683) 36
                           K(2SbL3=SbL2+SbL4)=-7.8
Medium: SbCl3. Method: current-voltage studies
______
Sb+++ sp non-aq 99°C 100% U
                                      1969BBc (5684) 37
                          K(SbL3+H20=SbL0+2HL)=-7.5
Medium: pyridine. Method: also emf and nmr
-----
Sb+++ dis oth/un 290°C 100% U TI
                                      1969JSb (5685) 38
```

```
K4=1.6
Medium: K(FeL4). K1=1.6(K(AlL4,289 C); 0.10(K(TlCl4,315 C).Gas chromatography
______
Sb+++ sol oth/un 25°C 4.0M U
                                1965HEa (5686) 39
                       Ks((Me4N)3(SbL4)2L)=-4.74
                       K4=1.0
                       K5.K6 = -0.77
Medium: H2SO4
______
Sb+++ dis oth/un 15°C 0.50M U
                                1964IDa (5687) 40
                       K4=1.4
                       K5K6 = -1.0
                       Kd(H+SbL4=HSbL4(in org))=0.6
Medium: 0.5 H, 6.3 Li(NO3). org=C6H13OH or C8H17OH
                       K1=2.26 B2=3.49 1959PDa (5688) 41
Sb+++ vlt NaNO3 25°C 4.0M U
                       B3=4.18
                       B4=4.72
                       B5=4.72
                       B6=4.11
*********************************
            HL Fluoride
                         CAS 7644-39-3 (201)
Fluoride;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
vlt NaClO4 30°C 2.0M U
                      K1=3.00 B2=5.70 1970B0c (7144) 42
                       B3=8.30
                       B4=10.95
-----
Sb+++ sol KNO3 20°C 0.10M U
                                1959KGc (7145) 43
                       *Ks = -0.37
                       K(Sb(OH)2+F)=5.5
Medium: HNO3, *Ks: 0.5Sb2O3(s)+0.5H2O+HF=Sb(OH)2F
I-
             HL
                Iodide
                         CAS 10034-85-2 (20)
Iodide;
       Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb+++ con non-aq 140°C 100% U
                                1967BNb (8372) 44
                      K(SbI2+I)=6.27
Medium: liquid I2
**********************************
                       (57)
OH-
            HL Hydroxide
Hydroxide;
-----
```

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

2003ZSa (12090) 45

Sb+++ sol none 80°C 0.0 C T

Kso(valentinite)=-3.69 Kso(senarmonite)=-3.96

Sb+++	sp	NaClO4	25°C	1.00M	U	K1=14.60 B3=41.57	B2=28.62 197	77ANa (1	2091)
Sb+++					U		1974ABb orthorombic S cubic Sb406)	•	47
*Ks: Sb40	6(s)+	8H=2Sb2	(OH)2+ 	-2H2O					
Sb+++	sol	NaClO4	25°C	5.00M	U	*Ks=-12.2(o *Ks=-12.7(c	1974ABb rthorombic Sł ubic Sb406)	. ,	48
*Ks: Sb40	6(s)+	4H+2H2O:	=4Sb(C)H)2					
Sb+++					U	*Ks=-13.07	1974ABb		49
*Ks: Sb40	5(OH)	C104(H20))1/2(s)+3H· 	+3/2H2O=/ 	4Sb(OH)2+C10 	4 		
Sb+++ *Ks: Sb40						*Ks=-13.46	1974ABb	(12095)	50
			(S)+2F	1+2H2U	, ,				
Sb+++ *Ks: Sb40						*Ks=-16.89 H2O	1974ABb	(12096)	51
 Sb+++	dis	NaClO4	25°C	3.00M		*K3=-1.24	1974SMc		 52
Sb+++	sol	none	25°C	0.00	U TIH	Ks=-2.35	1973VSb	(12098)	53
Ks(1/4Sb4 (DH(Ks)=1							(35 C), -2.08	3(50 C);	
Sb+++	sp	NaClO4	23°C	?	U	*K(SbO+2H2O	1968MGa =Sb(OH)3+H)=		54
Sb+++					U	Kso(Sb(OH)3	1958KOc)=-41.5	(12100)	55
Sb+++		none			U	*Ks2=-3.11 Ks3=-4.70 Ks4=-2.06	1952GGb	(12101)	56
Ks2: 0.5S Ks4: 0.5S	-	-			-)+1.5H2O=Sb(0	OH)3);	

```
Sb+++ vlt oth/un ? var U
                                    1925BAa (12102) 57
                          Kso = -41.4
-----
      sol NaClO4 25°C var U
                                    1924SCa (12103) 58
                         *K(PbOH+H2O=Pb(OH)2+H)=-3.1
*************
             H2L Sulfide CAS 7783-06-4 (705)
S--
Sulfide:
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      oth none 25°C dil C T
                                    1989SRf (14461) 59
                          K(Sb2S4+H=HSb2S4)=11.50
                          Ks(Sb2S3+HS=Sb2S4+H)=-14.00
                          Ks(Sb2S3+HS=HSb2S4)=-2.50
Critical evaluation of literature data for the solubility of Sb2S3 in
sulfide media. Data for 25-300 C.
______
Sb+++ sol oth/un 25°C var M T M
                                    1988KRd (14462) 60
                          K(Sb2S3(s)+H2S=H2Sb2S4)=-5.15
                          K(Sb2S3(s)+H2S=HSb2S4+H)=-10.1
                          K(Sb2S3(s)+H2S=Sb2S4+2H)=-19.6
Also K(Sb2S3(s)+2H20=Sb2S2(OH)2+H2S)=-7.44(200 C). Constants at I=0,25-350 C
-----
Sb+++ sol oth/un 25°C var U
                                    1966ADa (14463) 61
                         Ks(2Sb2S3(s)+SH+OH=Sb4S7)=0.7
______
      oth none 25°C 0.0 U
                                    1964PCa (14464) 62
From thermodynamic data. K(0.5Sb2L3(s)+H2O+H=SbO+1.5H2L(g))=-13.9
K(0.5Sb2L3(s)+3H20=Sb(OH)3+1.5H2L(g))=-14.7
______
Sb+++ sol oth/un 30°C var U
                                    1962DGc (14465) 63
                        K(Sb2L3(s)+L=Sb2L4)=2.08
_____
Sb+++ sol oth/un 20°C var U
                                    1956BLa (14466) 64
K(0.5Sb2L3(s)+0.5L=SbL2)=0.45. K(Sb2L3(s)+20H=SbL2+SbL(0H)2)=-1.10
                               1953AKa (14467) 65
Sb+++ sol none 25°C 0.0 U
                          K(0.5Sb2L3(s)+1.5L=SbL3)=0.89
                          K(Sb2L3(s)+HL=HSb2L4?)=-2.33
                          Kso(Sb2L3) = -92.77
I=0 \text{ corr. } K(0.5Sb2L3(s)+3H+4Cl=SbCl4+1.5H2L)=-12.24
K(0.5Sb2L3(s)+30H=0.5SbL3+0.5Sb03+1.5H20)=4.015. Kso from thermodynamic data
**************************
S04--
             H2L Sulfate
                            CAS 7664-93-9 (15)
Sulfate;
       Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb+++ sp oth/un ? var U
                                    1970DWa (16530) 66
```

B(Sb0+L)=0.3

```
Medium: 1-4 M H2SO4, K(SbO+2H2L=SbL2+H2O+2H)=-1.0 (10-18 M H2SO4)
********************************
              HL Formic acid CAS 64-18-6 (37)
Methanoic acid; H.COOH
             -----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb+++ vlt NaClO4 20°C 0.70M U K1=4.60 B2=9.53 1975WOa (17645)
                                                67
*********************************
                        CAS 62-56-6 (51)
                 Thiourea
Thiocarbamide, Thiourea; (H2N)2CS
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb+++ cal oth/un 25°C 3.0M U IH
                                   1984VRb (17856) 68
                         K(Sb0+2L)=2.80
in 3 M HClO4; also for 4 M HClO4 K=3.48 DH=-103.43 kJ/mol
for 5 M HClO4 K=4.38 DH=-108.37 kJ/mol
______
      sp NaClO4 25°C 3.00M U I
                                   1979VSb (17857) 69
                         K(Sb0+2L)=2.72
********************************
              L Methyl alcohol CAS 67-56-1 (597)
Methanol; CH3.OH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb+++ EMF alc/w 20°C 100% U I
                                   1971GSa (17898) 70
                         K(Sb+H-1L)=11.85
                         K(SbH-1L+H-1L)=10.26
                         K(SbH-2L2+H-1L)=9.07
                         K(Sb+2L=SbH-2L2+2H) > 1
Medium: MeOH, 1 M LiCl. With 1 M Li tosylate: K(Sb(H-1L)2+H-1L)=12.29;
K(Sb(H-1L)2+Sb(H-1L)3=Sb2(H-1L)5)=2.36
********************************
             HL Acetic acid CAS 64-19-7 (36)
Ethanoic acid; CH3.COOH
------
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb+++ vlt NaClO4 20°C 0.70M U K1=7.00 B2=12.64 1975WOa (20158)
*******************************
                 Thioglycolic CAS 68-11-1 (596)
             H2L
Mercaptoethanoic acid; HS.CH2.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Sb+++ gl NaClO4 20°C 0.10M U
                                   1970AMa (20363) 72
                         K(SbL2=SbL2(OH)+H)=7.58
```

```
K(SbL2+3OH=Sb(OH)3+2L)=6.92
******************************
                Glycine
                        CAS 56-40-6 (85)
2-Aminoethanoic acid; H2N.CH2.COOH
-----
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                     K1=10.60
            30°C 0.10M C
                               1982MNa (21700) 73
      vlt KCl
Method: polarography. By potentiometry, K(H+L)=9.53
********************************
                        CAS 60-24-2 (841)
2-Mercaptoethanol; HS.CH2.CH2.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Sb+++ gl NaClO4 20°C 0.10M U
                               1970AMa (22078) 74
                      K(SbH-2L2+H)=17.98
******************************
            H2L
               Malonic acid CAS 141-82-2 (79)
Propanedioic acid; CH2(COOH)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                Reference ExptNo
______
    vlt NaClO4 20°C 0.70M U K1=10.18 B2=26.52 1975WOa (24543)
                                            75
*********************************
                Propionic acid CAS 79-09-4 (35)
Propanoic acid; CH3.CH2.COOH
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     vlt NaClO4 20°C 0.70M U K1=6.68 B2=11.20 1975WOa (25047)
                                            76
*********************************
C3H6O3
               L-Lactic acid CAS 79-33-4 (82)
L-2-Hydroxypropanoic acid; CH3.CH(OH).COOH
_____
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb+++ vlt NaClO4 20°C 0.70M U K1=7.84 B2=12.00 1975WOa (25530)
                                            77
*********************************
                        CAS 110-16-7 (111)
            H2L
               Maleic acid
cis-Butenedioic acid; HOOC.CH:CH.COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     vlt NaClO4 20°C 0.70M U K1=7.78 B2=14.95 1975WOa (29128)
                                            78
***********************
               Succinic acid CAS 110-15-6 (112)
            H2L
1,4-Butanedioic acid; HOOC.CH2.CH2.COOH
______
```

Mtd Medium Temp Conc Cal Flags Lg K values

Metal

Reference ExptNo

```
vlt NaClO4 20°C 0.70M U K1=8.70 B2=17.60 1975WOa (30033) 79
H3L
                 Thiomalic acid CAS 70-49-5 (109)
2-Mercaptosuccinic acid, 2-Sulfanyl-1,4-butanedioic acid; HOOC.CH(SH).CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb+++ gl NaClO4 20°C 0.10M U
                                   1970AMa (30361) 80
                         K(SbHL2+H)=2.4
                         K(SbL2+H)=3.46
                         K(SbL2+3OH=Sb(OH)3+2L)=5.90
C4H604S2
                            CAS 2418-14-6 (4264)
2,3-Dimercaptobutanedioic acid; HOOC.CH(SH).CH(SH).COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb+++ gl NaClO4 20°C 0.10M U
                                   1970AMa (30396) 81
                         K(SbL=SbLOH+H)=-4.90
                         K(SbH3L2+H)=2.57
                         K(SbH2L2+H)=3.60
                         K(SbHL2+H)=4.61
K(SbL2+H)=6.82; K(2SbLOH+OH=Sb(OH)3+SbL2)=-10.7
*********************************
                            CAS 304-55-2 (3002)
meso-2,3-Dimercaptobutanedioic acid (meso-dithiotartaric acid)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Sb+++ gl NaClO4 20°C 0.10M U
                                   1970AMa (30434) 82
                         K(Sb2L2=SbLOH+2H)=13.17
                         K(Sb2L2+6OH=2Sb(OH)3+2L)=9.2
******************
                  Malic acid CAS 617-48-1 (393)
C4H605
             H2L
2-Hydroxybutane-1,4-dioic acid, Hydroxy-succinic acid; HOOC.CH2.CH(OH).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      vlt NaClO4 20°C 0.70M U K1=8.54 B2=17.18 1975WOa (30715)
********************************
             H2L DL-Tartaric acd CAS 133-37-9 (94)
DL-Tartaric acid, DL-2,3-Dihydroxybutanedioic acid; HOOC.CH(OH).CH(OH).COOH
-----
      Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
______
     vlt NaClO4 20°C 0.70M U K1=8.08 B2=14.81 1975WOa (31029)
***********************************
                  L-Tartaric acid CAS 87-69-4 (92)
L-Tartaric acid, L-2,3-Dihydroxybutanedioic acid; HOOC.CH(OH).CH(OH).COOH
```

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Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
 -----
     gl NaClO4 20°C 0.10M U M
                                1970AMa (31346) 85
K(Sb2(H-2L)2+20H=Sb2(H-2L)0H)=10.16, K(Sb2(H-2L)2+20H=2Sb(0H)3+2L)=6.07
**************
                     CAS 36061-59-3 (1953)
C5H7N04S2
            H3L
Bis(carboxymethyl)dithiocarbamic acid; (HOOC.CH2)2.N.CSSH
_____
                  Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     EMF KNO3 22°C 1.00M U
                      K1=8.97 B2=17.61 1970TPb (37560) 86
                      B3 = 25.99
**********************************
C5H804
            H2L
                Glutaric acid CAS 110-94-1 (420)
Pentanedioic acid; HOOC.CH2.CH2.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb+++ vlt NaClO4 20°C 0.70M U K1=9.48 B2=18.78 1975WOa (38350) 87
********************************
C5H11NS2
                         CAS 147-84-2 (2126)
Diethyldithiocarbamic acid; (CH3.CH2)2N.CSSH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb+++ sp non-aq ? 100% U M
                                1968SRg (41369) 88
                       K(SbAL+2HL=SbL3+H2A)=2.47
Medium: CCl4. H2A=dithizone
**********************************
                Chlorokojic ac CAS 7559-81-1 (8317)
2-Chloromethyl-5-hydroxy-4H-pyran-4-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb+++
            30°C 0.10M C B2=18.3
                               1985KNa (42337) 89
      vlt KCl
Method: polarography
*********************
                Catechol CAS 120-80-9 (534)
            H2L
1,2-Dihydroxybenzene, pyrocatechol; HO.C6H4.OH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb+++ gl NaClO4 20°C 0.10M U
                                1970AMa (43818) 90
                       K(SbL2+H=SbLOH+H2L)=2.37
                       K(SbL2+OH=Sb(OH)3+2HL)=-5.44
CAS 118-71-8 (2442)
C6H603
                Maltol
3-Hydroxy-2-methyl-4H-pyran-4-one;
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            30°C 0.10M C B2=21.3
      vlt KCl
                                1985KNa (44100) 91
Method: polarography
*********************
                Kojic acid
                         CAS 501-30-4 (1800)
5-Hydroxy-2-(hydroxymethyl)-4H-pyran-4-one;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     vlt KCl 30°C 0.10M C B2=19.7 1985KNa (44241) 92
Method: polarography
*******************************
            H4L
                Tiron
                          CAS 149-45-1 (104)
C6H608S2
4,5-Dihydroxybenzene-1,3-disulfonic acid; (HO)2.C6H2(SO3H)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb+++ gl KNO3 25°C 0.10M U I K2=14.5
                                 19710Bb (44486) 93
                       K(SbL2+H)=2.00
                       K(SbL+H2L=SbL2+2H)=-5.73
Medium: 0.1 \text{ M KCl}: K(SbL+H2L=SbL2+2H)=-6.01
______
Sb+++ gl NaClO4 20°C 0.10M U
                                 1970AMa (44487) 94
                       K(SbL2+H=SbLOH+H2L)=1.23
                       K(SbL2+OH=Sb(OH)3+2HL)=-3.95
*******************************
            H3L
                NTA
                          CAS 139-13-9 (191)
C6H9N06
Nitrilotriethanoic acid; N(CH2.COOH)3
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     vlt NaCl 25°C 4.0M C H K1=11.66
                                1984GSd (47006) 95
Method: polarography. Medium pH 2.2. DH(K1)=-31.9 kJ mol-1;
DS(K1)=117 \ J \ K-1 \ mol-1.
***********************************
                          CAS 303-38-8 (1398)
            H3L
2,3-Dihydroxybenzoic acid; C6H3(OH)2.COOH
------
     Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
-----
Sb+++ gl NaClO4 20°C 0.10M U
                                 1970AMa (54471) 96
                       K(SbL2+H=SbLOH+H2L)=2.8
                       K(SbL+2OH=Sb(OH)2+HL)=-4.17
*************************
C8H804
                           (601)
4,5-Dimethoxy-1,2-benzoquinone;
-----
    Mtd Medium Temp Conc Cal Flags Lg K values
______
```

```
1981KKc (60113) 97
Sb+++
    nmr non-aq 34°C 100% U M
                       K(SbC13+L)=0.68
Medium: nitromethane
************************************
C9H7N03S2
                          CAS 58447-10-2 (4675)
8-Mercaptoquinoline-5-sulfonic acid;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb+++ sp oth/un ? ? U K1=13.7 B2=26.1 1968ABa (64429)
*******************************
C10H9N03S2
                           (7206)
6-Methyl-5-sulfo-8-mercaptoquinoline;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Sb+++ sp oth/un 20°C 0.10M U K1=14.25 B2=25.90 1985DAb (70179)
*********************************
               EDTA
                          CAS 60-00-4 (120)
1,2-Diaminoethane-N,N,N',N'-tetraethanoic acid, Sequestric acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    vlt NaNO3 25°C 4.00M U H K1=19.48 1982WEa (74131) 100
DH(K1)=-25.140 kJ mol-1; DS=88 J K-1 mol-1
______
Sb+++ gl KNO3 25°C 0.10M U
                                19710Bb (74132) 101
                       K(SbL+H)=1.02
                       K(SbL+OH)=8.24
                       K(SbLOH+H2O=SbL(OH)2+H)=7.46
______
Sb+++ gl NaClO4 20°C 0.10M U
                                1970AMa (74133) 102
                       K(SbL+2OH=Sb(OH)3+HL)=12.46
-----
Sb+++ sp NaClO4 25°C 1.0M U
                                1965BIb (74134) 103
                       K(SbO+L+2H)=24.8
                       K(SbL+OH)=-8.7
********************************
                     CAS 150-39-0 (392)
            H3L
                HEDTA
N-(Hydroxyethyl)diaminoethane-N,N',N'-triethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                  -----
Sb+++ gl KNO3 25°C 0.10M U
                                19710Bb (75488) 104
                      K(SbL+H2O=SbLOH+H)=-3.05
Sb+++ gl NaClO4 20°C 0.10M U
                                1970AMa (75489) 105
                       K(SbL+OH=Sb(OH)3+H2L)=4.58
                       K(SbHL=SbL+H)=-3.10
```

```
Sb+++ sp NaClO4 25°C 1.0M U
                                 1966BIb (75490) 106
                        K(Sb0+L+2H)=20.2
                        K(SbH-1L+H)=-3.2
                        K(SbH-1L+OH)=-8.1
**********************************
                          CAS 18916-57-9 (581)
4-Methoxy-1,2-naphthoquinone;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Sb+++ sp non-aq 34°C 100% U HM
                                 1981KKb (77140) 107
                       K(SbC13+L)=0.63
Medium: nitromethane
**********************************
C12H10N2
                          CAS 103-33-3 (4893)
Azobenzene; C6H5.N:N.C6H5
-----
                                 Reference ExptNo
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Sb+++ sp non-aq ? 100% U B2=4.37
                                 1969KNa (80654) 108
Medium: dichloroethane
**********************************
C12H10N2O
             HL
                Solvent Yellow7 CAS 1689-82-3 (1106)
4-Hydroxyazobenzene; C6H5.N:N.C6H4.OH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb+++ sp non-aq ? 100% U
                                 1969KNa (80689) 109
                       K(Sb+2HL)=1.66
Medium: dichloroethane
**********************************
                          CAS 64-09-3 (4897)
4-Aminoazobenzene; C6H5.N:N.C6H4.NH2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp non-aq ? 100% U K1=1.68
                                1969KNa (80861) 110
Medium: dichloroethane
**********************************
C12H27O4P
                          CAS 126-73-8 (2432)
Tri-n-butyl phosphate; (C4H9O)3PO
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      sp oth/un ?
                ? U M
                                 1973RGa (84122) 111
                        K(SbBr3+L)=2.63
                       K(SbBr3+2L)=3.24
***********************************
                          CAS 538-51-2 (4969)
Benzylideneaniline; C6H5.N:CH.C6H5
```

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     sp non-aq ? 100% U K1=1.77
                              1969KNa (85008) 112
Medium: dichloroethane
************************************
C13H11N3O4S2 HL Tenoxicam CAS 59804-37-4 (8393)
4-Hydroxy-2-methyl-N-2'-pyridinyl-2H-thien[2,2-e]-1,2-thiazine-3-carboxamide-1,1-di
oxide:
      Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
     gl mixed 25°C 50% C K1=3.5 2002MWa (85290) 113
Medium: 50% v/v CH3CN/H2O, 0.05 M NaNO3.
*************************
C13H12N2
                        CAS 949-87-1 (4971)
4-Methylazobenzene; CH3.C6H4.N:N.C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
------
Sb+++ sp non-aq ? 100% U B2=4.07 1969KNa (85322) 114
Medium: dichloroethane
**********************************
                         CAS 584-90-7 (5028)
2,2'-Dimethylazobenzene; CH3.C6H4.N:N.C6H4.CH3
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Sb+++ sp non-aq ? 100% U B2=4.82 1969KNa (87642) 115
Medium: dichloroethane
**********************************
                        CAS 561-60-6 (5029)
4,4'-Dimethylazobenzene; CH3.C6H4.N:N.C6H4.CH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp non-aq ? 100% U B2=1.30
                            1969KNa (87644) 116
Medium: dichloroethane
**********************************
         L CAS 7466-38-8 (5066)
C14H14N2O
4-Ethoxyazobenzene; CH3.CH2.O.C6H4.N:N.C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     sp non-aq ? 100% U B2=1.66
                              1969KNa (87653) 117
Medium: dichloroethane
**********************************
C14H14N4OBr2
                         CAS 35601-32-2 (5092)
5-(3,5-Dibromo-2-pyridylazo)-2-ethylamino-4-hydroxy-1-methylbenzene;
______
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Reference ExptNo
By spectro	phot		: K1=	5.49				.12 ******	1967GUa (87689) 118
C14H15N3 4-Dimethyl			L					(5034)	
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Reference ExptNo
Medium: di	chlo		e	100%				.70 ******	, ,

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Reference ExptNo
Sb+++		oth/un			U		K(?)=		1967GUa (87769) 120

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Reference ExptNo
Sb+++		oth/un			U		K(?)=		1967GPa (88020) 121

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Reference ExptNo
Sb+++ DH(K1)=71.							-1	4.78	1982WEa (88768) 122
Sb+++							K(SbL	+20H=Sb((1970AMa (88769) 123 DH)3+HL)=11.24
C14H23N3O1 Diethylene	0 tria	mine-pe	H5L ntaetl	DTI nanoi	PA			CAS 67-43	3-6 (238) CH2.N(CH2.COOH)2)2
		Medium				_			Reference ExptNo
Sb+++	gl	KNO3	25°C	0.10				+H)=3.31	19710Bb (89376) 124

```
K(SbL+H)=3.57
*********************************
                                    CAS 889-37-2 (5104)
(4-Dimethylamino)benzalaniline; (CH3)2N.C6H4.CH:N.C6H5
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
       sp non-aq ? 100% U K1=4.32 1969KNa (91919) 126
Medium: dichloroethane
***********************************
                                    CAS 58758-12-6 (5103)
Benzal-(4-dimethylamino)aniline; C6H5.CH:N.C6H4.N(CH3)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb+++ sp non-aq ? 100% U K1=3.82 B2=1.25 1969KNa (91920) 127
Medium: dichloroethane
******************************
                                    CAS 39965-80-5 (5221)
1,3-Dihydroxy-4-(2-N-methylanabasinyl-alpha-azo)benzene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Sb+++ sp mixed ? 60% U
                                             1972TDa (96306) 128
                                K(SbC14+H3L)=5.48
Medium: 60% v/v acetone, 0.1 M KCl
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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
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END