SC-Database
Software version = 5.81 Data version = 4.62
Experiment list contains 78 experiments for
 (no ligands specified)
 2 metals : Te(IV), Te(not 4)
 (no references specified)
 (no experimental details specified)

****

e- HL Electron (442)

Electron;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	sp	KCl	300°C	100%	U		1972BJb (956)		1
							B(3Te++ =Te++++ + Te2++)=1.3		
Medium: Molten (K,Al)Cl									
Te(IV)	oth	none	25°C	0.0	U		1952LAb (957)		2
							K=34.6(1020 mV)		
K: Te(OH)6(s)+2H+2e=TeO2(s)+4H2O. K(TeO3+3H2O+4e=Te(s)+6OH)=-38.5(570 mV), K(Te(s)+2H+2e=H2T(g))=-25.0(-740 mV). K(Te(s)+2e=Te(II))=-38.6(-1140 mV)									

****

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

Bromide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	sp	oth/un	?	var	U		1970BMf (2327)		3
							B6=10.9		
Medium: H2SO4									
Te(IV)	dis	NaClO4	25°C	3.0M	U		K1=0.97 B2=1.58	1967SNc (2328)	4
							B3=1.96		
							B4=2.15		
							B5=2.21		
							B6=2.13		
Te(IV)	sp	NaClO4		6.0M	U	I	1966RMa (2329)		5
							K5K6=3.55		
Medium: HClO4. K5K6=1.55(I=4)									
Te(IV)	sp	non-aq		100%	U	I	K2=2.74	1965KSf (2330)	6
Medium: MeCN. K2=1.20 in DMF; 0.85 in DMSO									

****

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

Chloride;

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

```
Te(IV)     sp  oth/un 300°C 100%  U                    1974BBa  (5773)   7
                                    K4=3.66 to 3.92
                                    K5=2.13 to 2.32
                                    K6=0.68 to 0.82
Medium: molten (K,Al)Cl, m units
--------------------------------------------------------------------------
Te(IV)     dis non-aq 25°C 100%  U T                  1972GOc  (5774)   8
                                    K(HTeL6+H)=3.0
Medium: methylbutyl ketone. K=3.2(40 C), 3.6(60 C)
--------------------------------------------------------------------------
Te(IV)     sol NaClO4 18°C 0.50M U                    1968NKb  (5775)   9
                                    K(TeOOH+L)=0.5
                                    K(TeOL2+L)=-0.44
                                    K(TeOL3+L)=-0.77
                                    K(TeOL4+2H+2L)=-1.7
--------------------------------------------------------------------------
Te(IV)     sp  oth/un   ?   0.0  U                    1968SHe  (5776)  10
                                    K(TeOOHCl3+H+Cl)=-3.32
                                    K(TeOCl4+2H)=-2.20
                                    K5=-1.83
                                    K6=-2.19
--------------------------------------------------------------------------
Te(IV)     dis oth/un 18°C  0.0  U                    1968SHf  (5777)  11
                                    Kd(TeCl4(H2O)2+2TBP)=0.01
TBP in C8H18. Products: 2H2O+TeCl4(TBP)2(org)
--------------------------------------------------------------------------
Te(IV)     dis NaClO4 25°C  7.0M U       K1=3.24   B2=6.0    1968SNb  (5778)  12
                                    B3=8.34
                                    B4=10.18
                                    B5=12.76
                                    B6=15.30
Medium: HClO4
--------------------------------------------------------------------------
Te(IV)     sp  NaClO4       8.0M U  I                 1966RMa  (5779)  13
                                    K5K6=1.55
Medium:HClO4. K5K6=0.25(I=6)
--------------------------------------------------------------------------
Te(IV)     dis oth/un 22°C  var  U                    1965BPb  (5780)  14
                                    Kd(TeO2H+3H+4Cl+3TBP)=-2.80
TBP in hexane
--------------------------------------------------------------------------
Te(IV)     sp  non-aq 20°C 100%  U  I                 1965KSe  (5781)  15
                                    K5=0.77
Medium: DMSO. K5=0.7 in DMF, 1.62 in MeCN, 2.05 in MeNO2
**************************************************************************
F-                    HL    Fluoride         CAS 7644-39-3  (201)
Fluoride;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
```

```
Te(IV)     oth oth/un   ?   var  U                        1974MMc  (7232)  16
                                        K(TeF4OH+HF=TeF5+H2O)=-0.4
Medium: HF. Method: ir and Raman spectroscopy
********************************************************************************
I-                    HL    Iodide          CAS 10034-85-2  (20)
Iodide;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Te(IV)     sp  oth/un       1.0M U                        1966MUa  (8385)  17
                                        B6eff=7.4 (1 M HCl)
********************************************************************************
NO3-                  HL    Nitrate         CAS 7697-37-2  (288)
Nitrate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Te(IV)     ix  mixed  20°C 3.00M U        K1=0.28   B2=0.74   1982OKa  (9936)  18
                                        B3=1.28
                                        B4=1.85
                                        B5=2.48
                                        B6=3.30
********************************************************************************
OH-                   HL    Hydroxide         (57)
Hydroxide;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Te(IV)     sp  KCl    25°C  0.0  C                        1991MIb (12227)  19
                                        K(TeCl6=TeCl4(OH)+HCl+Cl)=4.58
                                        *K(TeCl4(OH))=2.66
Calculated from data for solutions in 2.5-10.0 M HCl.
*K(TeCl4(OH)): TeCl4(OH)=TeCl2(OH)2+HCl+Cl. Also by 125Te nmr.
--------------------------------------------------------------------------------
Te(IV)     sp  KNO3   28°C 0.10M U  I     K1=11.95  B2=23.52  1977NSa (12228)  20
                                        B3=34.83
                                        B4=45.85
********************************************************************************
S--                  H2L    Sulfide         CAS 7783-06-4  (705)
Sulfide;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Te(IV)     EMF oth/un 18°C  var  U  I     K1=4.50   B2=8.21   1972GZa (14482)  21
                                        K3=7.11
                                        K4=3.97
                                        K5=2.55
                                        K6=2.00
Metal ion: TeO3--. medium: Na2TeO3
--------------------------------------------------------------------------------
```

Te(IV) sol oth/un ? var U 1963DGb (14483) 22
Ks(TeS2(s)+S)=7.61
Ks(TeS2(s)+2OH)=4.26
K(TeS2O+H)=8.7
K(HTeS2O+H)=10.5

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Te(IV)	ix	oth/un	22°C	3.00M	U		K1=2.81	B2=5.37	1980NOa (16582)	23
							B3=7.67			

****

CH4O L Methyl alcohol CAS 67-56-1 (597)
Methanol; CH3.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	EMF	alc/w	20°C	100%	U			1971GSa (17905)	24
							K(Te(H-1L)3+H-1L)=8.3		
							K(Te(H-1L)4+H-1L)=4.64		
							K(TeL'4+TeL'5=Te2L'9)=2.11		

Medium: MeOH, 1 M Me4NCl. L'=H-1L (i.e. CH3O)

****

C5H11NS2 HL CAS 147-84-2 (2126)
Diethyldithiocarbamic acid; (CH3.CH2)2N.CSSH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	sp	non-aq	?	100%	U	M		1968SRg (41371)	25
							K(Te(HA)4+4HL=TeL4+4H2A)=5.5		

Medium: CCl4. H2A=dithizone

****

C6H6N2O2 L o-Nitroaniline CAS 88-74-4 (463)
2-Nitroaminobenzene; H2N.C6H4.NO2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	sp	diox/w	25°C	100%	U			1975BSb (43361)	26
							K(TeCl4+L)=1.22		

****

C6H10O7 HL Glucuronic acid CAS 6556-12-3 (599)
D-Glucuronic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=1.24	1987PLb (48423)	27

****

C6H12O7 HL Gluconic acid CAS 526-95-4 (904)

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=3.05 B2=3.90	1987PLb (49765)	28

C7H8N2O2 L 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
Te(IV)	sp	diox/w	25°C	100%	U		K(TeCl4+L)=1.80	1975BSb (55888)	29

C12H22O11 L Turanose CAS 547-25-1 (2701)
3-O-D-Glucopyranosyl-D-fructose;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=1.76	1987PLb (82867)	30

C12H22O11 L alpha-Lactose CAS 5989-81-1 (2486)
4-D-Beta-D-Galactopyranosyl-alpha-D-glucose;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=1.57	1987PLb (82876)	31

C12H22O11 L Maltose CAS 6363-53-7 (2705)
4-O-alpha-D-Glucopyranosyl-D-glucose, Maltobiose;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=1.33	1987PLb (82882)	32

C12H22O11 L Cellobiose CAS 528-50-7 (2697)
4-O-beta-D-Glucopyranosyl-D-glucose;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=1.37	1987PLb (82887)	33

C12H22O11 L Melibiose CAS 66009-10-7 (2699)
6-O-D-Galactopyranose-D-glucose;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=1.80	1987PLb (82891)	34

C12H22O11 L Gentiobiose CAS 554-91-6 (2698)

6-O-D-Glucopyranosyl-D-glucose, Amygdalose;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=1.27	1987PLb (82894)	35

C12H22O11 L Trehalose CAS 6138-23-4 (2700)
D-Glucopyranosyl-D-glucopyranoside;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=1.32	1987PLb (82902)	36

C12H22O11 L Sucrose CAS 57-50-1 (2523)
beta-D-Fructofuranosyl-alpha-D-glucopyranoside; Saccharose;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=1.23	1987PLb (82913)	37

C12H24O11 L Maltitol CAS 585-88-6 (2709)
4-O-alpha-D-Glucopyranosyl-D-glucitol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=3.69	1988HLa (83684)	38

C12H24O11 L Lactitol CAS 535-94-4 (2710)
4-O-beta-D-Galactopyranosyl-D-glucitol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	gl	KCl	25°C	0.10M	M		K1=3.40	1988HLa (83687)	39

C13H12N2S L diPh-thiourea CAS 102-08-9 (1075)
1,3-Diphenyl-2-thiourea; C6H5.NH.CS.NH.C6H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	sp	oth/un	?	6.0M	U			1973MMc (85390)	40
							K(TeBr6+2HL)=7.64		

Medium: 5-7 H2SO4, 0.2 NaBr.

C13H13N3S L CAS 1768-59-8 (4988)
1,4-Diphenylthiosemicarbazide; C6H5.NH.NH.CS.NH.C6H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	sp	non-aq	?	100%	U			1970MMi (85523)	41
							K(TeBr6+2HL)=3.9		

Medium: benzene.

****

C28H15NO4 L CAS 82-22-4 (3522)
1,1'-Iminodianthraquinone; (1,1'-dianthrimide)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	sp	mixed	?	93%	U			1968LNa (104656)	42
							K(HTeO2+HL)=2.36(?)		

Medium: 93.2% H2SO4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(IV)	sp	oth/un	70°C	96%	U			1959LSa (104657)	43
							K(H2TeO3+HL=HTeO2L(?))=3.95		

Medium: 96.25% H2SO4

****

e- HL Electron (442)
Electron;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	EMF	oth/un	25?°C	var	U			1964PAa (958)	44
							K=-28.57, 845 mV		

K: 2Te(s) + 2e = Te2--

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	vlt	oth/un	25°C	var	U			1963PAb (959)	45
							K=-17.2, -510 mV		
							K(Te(s)+2e=Te--)=-32.1, -950mV		
							K(Te(s)+Te=Te2--)=3.5		

K: Te(s) + 2H+ + 2e = H2Te

****

F- HL Fluoride CAS 7644-39-3 (201)
Fluoride;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	sp	non-aq	25°C	100%	U			1971PEg (7233)	46
							k(H+TeOF5)=9.2		

Medium: EtOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	con	non-aq	25°C	100%	U			1971PEj (7234)	47
							K(H+TeOF5)=8.8		

Medium: EtOH. K1(HClO4)=4.87

****

MoO4-- H2L Molybdate (443)
Molybdate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	gl	NaCl	25°C	1.0M	C			1987YSa (8759)	48
							B(6,6,1)=50.40		

B(7,6,1)=53.68
B(8,6,1)=55.47
B(p,q,r)=pH+qMoO4+rTe(OH)6

****

OH- HL Hydroxide (57)
Hydroxide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Te(not 4)	gl	KCl	25°C	1.0M	C	T H			1975KMc (12229)	49
							*K1(Te(OH)6)=-7.28			
							*B(2,1)=-6.31			
							*B(2,2)=-13.45			
							*B(1,2)=-17.74			

*B(2,3)=-22.93. Te is Te(VI). Data for 35, 40, 45 C. DH(*K1)=25 kJ mol-1, DH(*B(2,1))=21, DH(*B(2,2))=59, DH(*B(1,2))=38, DH(*B(2,3))=100.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Te(not 4)	cal	KCl	25°C	1.0M	C	H			1975KMd (12230)	50

Metal is Te(VI), Te(OH)6. DH(*K1)=29.3 kJ mol-1, DS(*K1)=-46.0 J K-1 mol-1
DH(*B(2,1))=25.9, DS(*B(2,1))=-38; DH(*B(2,2))=54.8, DS(*B(2,2))=-71.

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Te(not 4)	gl	KCl	25°C	0.10M	U				1961ATa (12704)	51
							K(H5TeO6+H2L)=-0.15			
							K(H5TeO6+2H2L)=-1.41			
Te(not 4)	gl	none	25°C	0.0	U				1959EFa (12705)	52
							K(H5TeO6+H2L)=-0.17			

****

S-- H2L Sulfide CAS 7783-06-4 (705)
Sulfide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values		Reference	ExptNo
Te(not 4)	EMF	oth/un	18°C	var	U	I	K1=7.39	B2=11.45	1972GZa (14484)	53
							K3=5.04			
							K4=4.35			
							K5=2.90			
							K6=2.49			

Metal ion: TeO4--. Medium: Na2TeO4

****

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

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

---

Te(not 4) sp oth/un ? U 1973GBc (17446) 54
K'=18.5
K': H2TeO2(OH)4 + 4H2WO4 = H6TeO6(H2WO4)4
****
CH4N2S L Thiourea CAS 62-56-6 (51)
Thiocarbamide, Thiourea; (H2N)2CS

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Te(not 4) sp KCl ? 2.0M U B2=1.7 1965TSe (17859) 55
Metal: Te++; medium: HCl.
****
C2H4O2S H2L Thioglycolic CAS 68-11-1 (596)
Mercaptoethanoic acid; HS.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Te(not 4) gl oth/un 30°C 0.50M U K1=6.3 1982RAa (20375) 56
Metal: Te(II). Medium: H2SO4.
****
C2H6O2 L Ethyleneglycol CAS 107-21-1 (924)
1,2-Dihydroxyethane (Ethane-1,2-diol); HO.CH2.CH2.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Te(not 4) gl oth/un 25°C 0.10M U 1957RLa (22157) 57
K(H5TeO6+L)=1.21
****
C3H6O2S H2L Thiolactic acid CAS 79-42-5 (366)
2-Mercaptopropanoic acid; CH3.CH(SH).COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Te(not 4) gl oth/un 30°C 0.50M U K1=8.6 1982RAa (25174) 58
Metal: Te(II). Medium: H2SO4.
****
C3H6O2S H2L CAS 107-96-0 (437)
3-Mercaptopropanoic acid; HS.CH2.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Te(not 4) gl oth/un 30°C 0.50M U K1=7.6 1982RAa (25229) 59
Metal: Te(II). Medium: H2SO4.
****
C3H7NO2S H2L Cysteine CAS 52-90-4 (96)
2-Amino-3-mercaptopropanoic acid; H2N.CH(CH2.SH)COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Te(not 4) gl oth/un 30°C 0.50M U K1=5.3 1982RAa (26840) 60

Metal: Te(II). Medium: H2SO4.

****

C3H8O2 L Propyleneglycol CAS 57-55-6 (2025)

Propan-1,2-diol; CH3.CH(OH).CH2(OH)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	gl	oth/un	25°C	0.10M	U		1957RLa (27686)	61	
							K(H5TeO6+L)=1.47		

****

C3H8O3 L Glycerol CAS 56-81-5 (2707)

Propane-1,2,3-triol; HO.CH2.CH(OH).CH2.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	gl	oth/un	25°C	0.10M	U		1957RLa (27752)	62	
							K(H5TeO6+L)=1.86		
Te(not 4)	oth	KCl	25°C	0.10M	U		1956ANa (27753)	63	
							K(H5TeO6+L)=1.77		
Method: quinhydrone electrode									
Te(not 4)	oth	oth/un	0°C	->0	U		1956ANd (27754)	64	
							K(H2TeO4+nL)=0.34		
Method: freezing point									

****

C4H6O4S H3L Thiomalic acid CAS 70-49-5 (109)

2-Mercaptosuccinic acid, 2-Sulfanyl-1,4-butanedioic acid; HOOC.CH(SH).CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	gl	oth/un	30°C	0.50M	U		K1=6.7	1982RAa (30367)	65
Metal: Te(II). Medium: H2SO4.									

****

C4H6O6 H2L L-Tartaric acid CAS 87-69-4 (92)

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	oth	oth/un	22°C	?	U		1963LJa (31369)	66	
							Keff(H5TeO6+L)=1.64 to 1.79		
Method: optical rotation									

****

C4H10O2 L CAS 5341-95-7 (3575)

meso-Butan-2,3-diol; CH3.CH(OH).CH(OH).CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	gl	oth/un	25°C	0.10M	U		1957RLa (34671)	67	
							K(H5TeO5+L)=1.16		

DL- or meso- not stated

****

C4H10O3 L CAS 623-39-2 (3577)

3-Methoxypropan-1,2-diol; CH2(OH).CH(OH).CH2.OCH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	gl	oth/un	25°C	0.10M	U		1957RLa (34708)		68
							K(H5TeO6+L=H3TeO4(H-2L))=1.40		

Metal: Te(VI).

****

C5H10O4 L Deoxy-Ribose CAS 533-67-5 (7470)

2-Deoxy-D-ribose, 2-Deoxy-D-erythro-pentose;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	gl	KCl	25°C	0.10M	U		1979HUa (40329)		69
							K(H5TeO6+L)=3.11		

****

C5H12O4 H2L Pentaerythrito CAS 115-77-5 (3028)

Pentaerythritol; C(CH2.OH)4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	gl	KCl	25°C	0.10M	U		1960ARa (41663)		70
							K(H5TeO6+L=H3TeO4H-2L)=0.58		

****

C6H12O6 L D-Fructose CAS 57-48-7 (1561)

D-Fructose

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	gl	KCl	25°C	0.10M	U		1957ANa (49553)		71
							K(H5TeO6+L=H3TeO4(H-2L))=1.92		
Te(not 4)	gl	oth/un	25°C	?	U		1957RLa (49554)		72
							K(H6TeO6+H2L=H4TeO4L)=1.44		

****

C6H12O6 L D-Galactose CAS 59-23-4 (1559)

D-Galactose

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Te(not 4)	gl	oth/un	25°C	0.10M	U		1957RLa (49569)		73
							K(H6TeO6+H2L=H4TeO4L)=1.50		

****

C6H12O6 L D-Glucose CAS 492-62-6 (1560)

D-Glucose

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

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--------------------------------------------------------------------------------
Te(not 4)  gl  oth/un 25°C 0.10M U                      1957RLa (49595)  74
                                        K(H6TeO6+H2L=H4TeO4L)=1.16
********************************************************************************
C6H12O6                 L    Inositol         CAS 87-89-8  (2285)
myo-Inositol, meso-Inositol;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Te(not 4)  gl  KCl    25°C 0.10M U                      1967FAa (49639)  75
                                        K(H5TeO6+L=H3TeO4(H-2L)=1.773
                                        K(H5TeO6+2L=HTeO2(H-2L)2)=1.85
********************************************************************************
C6H14O6                 L    D-Mannitol       CAS 69-65-8  (3664)
D-Mannitol;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Te(not 4)  EMF KCl    25°C 0.10M U                      1956ANa (51089)  76
                                        K(H5TeO6+L=H3TeO4(H-2L))=3.19
Method: quinhydrone electrode.
********************************************************************************
C8H10O2                 L                        CAS 7138-28-5  (3199)
Phenylethane-1,2-diol; C6H5.CH(OH).CH2.OH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Te(not 4)  gl  oth/un 25°C 0.10M U                      1957RLa (60836)  77
                                        K(H6TeO6+H2L=H4TeO4L)=1.66
********************************************************************************
Polymer                                    (4200)
Polyvinyl alcohol;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Te(not 4)  gl  oth/un 25°C 0.10M U                      1957RLa (108382)  78
                                        K'(H5TeO6+L)=0.00
See reference for definitions

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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

END