SC-Database
Software version = 5.81 Data version = 4.62
Experiment list contains 10 experiments for
 (no ligands specified)
 2 metals : Es++, Es+++
 (no references specified)
 (no experimental details specified)

****
C12H24O6 L 18-Crown-6 CAS 17455-13-9 (577)
1,4,7,10,13,16-Hexaoxacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Es++ dis alc/w U K1=4.70 1993MKa (83350) 1
Medium: 10 mol/l H20 in EtOH; for 100% H2O K1=2.64
ionic strength ~0.003 M, temp. is not indicated
****
C18H15B L CAS 960-71-4 (2107)
Triphenylboron; B(C6H5)3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Es++ sol alc/w 25°C 80% U K1=0.79 B2=2.03 1988MKc (96974) 2
****
e- HL Electron (442)
Electron;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Es+++ oth none 25°C 0.0 U 1972MRd (457) 3
K(Es+e=Es(II))=-26.2(-1.55V)
Method:Estimated data

Es+++ oth none 25°C 0.0 U 1969NBa (458) 4
K(Es+e=Es(II))=-27.0(-1.6V)
Method:Estimated data
****
Cl- HL Chloride CAS 7647-01-0 (50)
Chloride;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Es+++ dis NaClO4 25°C 1.0M U K1=-0.02 1972HPa (4804) 5
****
OH- HL Hydroxide (57)
Hydroxide;

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

```
Es+++      dis NaClO4   ?  0.10M U                        1973HHd (11298)   6
                                        *K1=-5.14
Medium: LiClO4
*****************************************************************************
SCN-                    HL    Thiocyanate      CAS 463-56-9  (106)
Thiocyanate;
-----------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-----------------------------------------------------------------------------
Es+++      dis NaClO4 25°C  1.0M U      T K1=0.56   B2=-1.4   1972HPb (14933)   7
                                        B3=0.47
*****************************************************************************
SO4--                  H2L    Sulfate          CAS 7664-93-9  (15)
Sulfate;
-----------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-----------------------------------------------------------------------------
Es+++      dis none   25°C  0.0  U        K1=3.81   B2=5.66   1972MCc (16156)   8
                                        B3=5.07
*****************************************************************************
C6H8O7                 H3L    Citric acid      CAS 77-92-9  (95)
2-Hydroxypropane-1,2,3-tricarboxylic acid; HOOCCH2.CH(OH)(COOH).CH2COOH
-----------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-----------------------------------------------------------------------------
Es+++      dis NaClO4 25°C 0.10M U                        1974HHa (46078)   9
                                        K(EsL2+6H)=14.09
                                        K(EsL(HL)+5H)=9.68
*****************************************************************************
C14H23N3O10            H5L    DTPA             CAS 67-43-6  (238)
Diethylenetriamine-pentaethanoic acid; HOOC.CH2.N(CH2.CH2.N(CH2.COOH)2)2
-----------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-----------------------------------------------------------------------------
Es+++      ix  R4N.X  25°C 0.10M U        K1=22.62       1965BAc (89216)  10
Medium: NH4ClO4

REFERENCES

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(1973)
  1972HPa  H Harmon,J Peterson,W McDowell; Inorg.Nucl.Chem.Lett.,8,57 (1972)
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  1965BAc  R Baybarz; J.Inorg.Nucl.Chem.,27,1831 (1965)
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EXPLANATORY NOTES

EVALUATION Flags are :-

T or IUP=T signifies EVALUATION RATING = Tentative by IUPAC

END