

SC-Database

Software version = 5.81 Data version = 4.62

Experiment list contains 7 experiments for  
(no ligands specified)

Metal : Fm+++

(no references specified)

(no experimental details specified)

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e- HL Electron (442)  
Electron;

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Fm+++ oth none 25°C 0.0 U 1969NBa (504) 1  
K(Fm+e=Fm(II))=-22.0(-1.3V)

Method:Estimated data

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

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Fm+++ dis oth/un 600°C var U T 1972FSb (6902) 2  
medium: liquid Li(F,Cl). Tables of B for 4f and 5f elements. See also  
J.Inorg.Nucl.Chem.,33,1325

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OH- HL Hydroxide (57)  
Hydroxide;

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Fm+++ dis oth/un 25°C 0.10M U 1972HHb (11484) 3  
\*K1=-3.8

Medium: LiClO4

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C3H6O3 HL L-Lactic acid CAS 79-33-4 (82)  
L-2-Hydroxypropanoic acid; CH3.CH(OH).COOH

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Fm+++ dis R4N.X 20°C 0.50M U 1967ESa (25445) 4  
B3=6.36

Background salt is NH4ClO4

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C6H8O7 H3L Citric acid CAS 77-92-9 (95)  
2-Hydroxypropane-1,2,3-tricarboxylic acid; HOOCCH2.CH(OH)(COOH).CH2COOH

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Fm+++ dis NaClO4 25°C 0.10M U 1974HHa (46113) 5  
 K(FmL2+6H)=13.76  
 K(FmL(HL)+5H)=9.15

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C14H22N2O8 H4L CDTA CAS 482-54-2 (200)  
 trans-1,2-Diaminocyclohexane-N,N,N',N'-tetraethanoic acid;

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 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Fm+++ dis R4N.X 20°C 0.10M U K1=19.7 1990GBc (88658) 6  
 Medium: NH4ClO4

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C14H23N3O10 H5L DTPA CAS 67-43-6 (238)  
 Diethylenetriamine-pentaethanoic acid; HOOC.CH2.N(CH2.CH2.N(CH2.COOH)2)2

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 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Fm+++ ix R4N.X 25°C 0.10M U K1=22.7 1965BAc (89247) 7  
 Medium: NH4ClO4

REFERENCES

1990GBc B Gorski,G Buklanov et al; Radiochim.Acta,51,59 (1990)  
 1974HHa S Hubert,M Hussonois,L Brillard et al; J.Inorg.Nucl.Chem.,36,2361 (1974)  
 1972FSb L Ferris,F Smith,J Mailen,M Bell; J.Inorg.Nucl.Chem.,34,313 (1972)  
 1972HHb M Hussonois,S Hubert et al; Radiochem.Radioanal.Lett.,10,231 (1972)  
 1969NBa L Nugent,R Baybarz,J Burnett; J.Phys.Chem.,73,1177 (1969)  
 1967ESa V Ermakov,I Stary; Radiokhim.,9,197 (1967)  
 1965BAC R Baybarz; J.Inorg.Nucl.Chem.,27,1831 (1965)

EXPLANATORY NOTES

DATA Flags are :-

T Data at other TEMPERATURES

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 END