

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)

e- HL Electron (442)

Electron;

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

Method:Estimated data

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

Fluoride;

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

OH- HL Hydroxide (57)

Hydroxide;

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

Medium: LiClO4

C3H6O3 HL L-Lactic acid CAS 79-33-4 (82)

L-2-Hydroxypropanoic acid; CH3.CH(OH).COOH

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

Background salt is NH4ClO4

C6H8O7 H3L Citric acid CAS 77-92-9 (95)

2-Hydroxypropane-1,2,3-tricarboxylic acid; HOOCCCH2.CH(OH)(COOH).CH2COOH

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

$$K(FmL2+6H)=13.76$$
$$K(FmL(HL)+5H)=9.15$$

C14H22N2O8 H4L CDTA CAS 482-54-2 (200)

trans-1,2-Diaminocyclohexane-N,N,N',N'-tetraethanoic acid;

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: NH_4ClO_4

C14H23N3O10 H5L DTPA CAS 67-43-6 (238)

Diethylenetriamine-pentaethanoic acid; $\text{HOOC} \cdot \text{CH}_2 \cdot \text{N}(\text{CH}_2 \cdot \text{CH}_2 \cdot \text{N}(\text{CH}_2 \cdot \text{COOH})_2)_2$

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: NH_4ClO_4

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)
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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

END