

SC-Database

Software version = 5.81 Data version = 4.62

Experiment list contains 62 experiments for
(no ligands specified)

Metal : Pm+++

(no references specified)

(no experimental details specified)

e- HL Electron (442)
Electron;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pm+++	oth	none	25°C	0.0	U				1974JOb (806)	1
									K(Pm+3e=Pm(s))=-116.1(-2.29)	
									K(Pm+e=Pm(II))=-42(-2.5V)	

Method: Literature evaluated data

Pm+++	oth	none	25°C	0.0	U				1952LAb (807)	2
									K(Pm+3e)=-122.8(-2420 mV)	

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pm+++	oth	KCl	15°C	var	U			K1=0.7	1969MKc (5486)	3
									K2(?)=-0.8	

Medium: HCl. Method: paper electrophoresis

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pm+++	oth	NaClO4	25°C	0.10M	U			K1=3.3	1973MSg (7108)	4
method:electromigration or transference number										

IO3- HL Iodate CAS 7782-68-5 (1257)
Iodate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pm+++	dis	NaClO4	25°C	0.10M	U			K1=1.12	1973CBd (8547)	5

NO3- HL Nitrate CAS 7697-37-2 (288)
Nitrate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pm+++ dis oth/un 30°C 1.0M C K1=0.18 B2= 0.33 1980KMe (15229) 15
In 1.0 M NH4ClO4/NH4SCN. Extraction of 147Pm into hexane/ammonium dinonyl-

naphthalene sulfonate.

S04-- H2L Sulfate CAS 7664-93-9 (15)
Sulfate;

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

Pm+++ dis NaCl04 55°C 2.0M U T H K1=1.60 B2=2.28 1967CCd (16471) 16
K1=1.08(0 C), 1.34(25 C), 1.49(40 C); B2=1.62(0 C), 1.88(25 C), 2.00(40 C)
DH(K1)=16.3 kJ mol⁻¹, DS=79.4 J K⁻¹ mol⁻¹

CH503P H2L CAS 13590-71-1 (1752)
Methylphosphonic acid; CH3.PO3H2

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

Pm+++ ix none 25°C 0.00 U I 1967BEa (18133) 17
K(Pm+HL)=2.67

At I=0.5 M NH4Cl04: K(Pm+HL)=1.72

CH504P H2L CAS 2617-47-2 (1977)
Hydroxymethylphosphonic acid; HO.CH2.PO3H2

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

Pm+++ ix R4N.X 25°C 0.20M U 1972EZd (18151) 18
K(Pm+HL)=1.65
K(Pm+2HL)=3.30

Medium: NH4Cl04

C2H204 H2L Oxalic acid CAS 144-62-7 (24)
Ethanedioic acid; (COOH)2

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

Pm+++ oth oth/un 25°C 0.10M U K1=5.20 B2=8.80 1971STe (19033) 19
Method : electrical migration or transference number

Pm+++ dis R4N.X 20°C 1.00M U B2=8.3 1966STa (19034) 20
B3=11.8

Medium : NH4Cl

C2H5NO2 HL Glycine CAS 56-40-6 (85)
2-Aminoethanoic acid; H2N.CH2.COOH

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

Pm+++ dis NaCl04 25°C 2.0M U T H 1968TCa (21682) 21
K(Pm+HL)=0.67

K=0.45(0 C), 0.52(11 C), 0.79(40 C). At 25 C:DH(K1)=14.6 kJ mol⁻¹, DS=62.7

C2H5O5P H3L CAS 4408-78-0 (4225)
Phosphonoethanoic acid; H00C.CH2.PO3H2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	ix	none	25°C	0.00	U		K(Pm+HL)=5.15 B(Pm+2HL)=8.50 K(Pm+H2L)=2.75	1972EZc (21894)	22

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
Pm+++	oth	KCl	10°C	1.50M	U		K1=2.54 B2=4.24	1972SNa (25517)	23
Method: (gelatinized cellulose acetate), electrophoresis									
Pm+++	ix	NaCl04	20°C	0.20M	U		K1=2.43 B2=4.20 B3=3.35	1968WZa (25518)	24

Pm+++	ix	oth/un	25°C	0.10M	U		B2=5.38	1967DVa (25519)	25
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C4H6O6 H2L L-Tartaric acid CAS 87-69-4 (92)
L-Tartaric acid, L-2,3-Dihydroxybutanedioic acid; H00C.CH(OH).CH(OH).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	dis	oth/un	20°C	0.10M	U		K1=3.9 B2=6.8	1966STa (31335)	26
Medium: NH4Cl									
Pm+++	oth	NaCl	?	0.10M	U		B2=5.81	1965MSd (31336)	27
Method: paper electrophoresis									

C4H8O3 HL CAS 594-61-6 (81)
2-Hydroxy-2-methylpropanoic acid; (CH3)2C(OH).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	oth	oth/un	25°C	0.10M	U		K1=2.79 B2=4.69 B3=6.20	1971SHb (33505)	28
Method is electrical migration or transference number									
Pm+++	ix	NaCl04	20°C	0.20M	U		K1=2.63 B2=4.78 B3=5.90	1968WZa (33506)	29

Pm+++	ix	oth/un	?	?	U		B2=6.00	1967DVa (33507)	30
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C4H11O4P HL (4276)

Diethylphosphoric acid; (C2H5O)2.PO.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pm+++	oth	oth/un	25°C		U			K1=1.54	1971Mgb (35265)	31
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Estimated

C4H14N2O4P2 H2L CAS 37107-07-6 (4287)
Ethylenebis(iminomethylenephosphonous acid)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pm+++	ix	oth/un	25°C	0.50M	U				1971EZd (35832)	32
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K(Pm+H2L)=5.78

C4H14N2O6P2 H2L EDDPO CAS 1733-49-9 (2435)
1,2-Diaminoethane-N,N'-bis(methylenephosphonic) acid; (H2O3P.CH2.NH.CH2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pm+++	ix	R4N.X	25°C	0.50M	U				1973EZa (35891)	33
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K(Pm+H2L)=5.72

Medium: 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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Pm+++	dis	NaClO4	25°C	0.15M	U				1973HHc (46231)	34
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K(Pm+HL+L)=11.13

Pm+++	ix	NaCl	25°C	0.10M	U			K1=7.00 B2=11.91	197200a (46232)	35
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K(Pm+HL)=5.46
K(PmHL+HL)=8.42

Pm+++	oth	oth/un	25°C	0.10M	U			K1=7.75 B2=10.95	1971STe (46233)	36
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K(PmL+HL)=2.40

Constants obtained by survey of literature data

C6H9NO6 H3L NTA CAS 139-13-9 (191)
Nitrilotriethanoic acid; N(CH2.COOH)3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pm+++	dis	NaClO4	20°C	0.10M	U	T		K1=11 B2=19.71	1966STa (46983)	37
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C6H10O3 HL CAS 16841-19-3 (3649)
1-Hydroxycyclopentanecarboxylic acid; HO.C5H8.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	oth	NaClO4	25°C	0.10M	U		K1=2.73 B2=4.77 K3=1.40	1966PRb (47994)	38

C6H11NO5		H2L		HIMDA			CAS 93-62-9 (192)		
N-(2-Hydroxyethyl)iminodiethanoic acid; HO.CH2.CH2.N(CH2.COOH)2									

Pm+++	dis	oth/un	25°C	0.10M	U		K1=8.97	1971EVb (48781)	39

C7H15O3P		HL					CAS 9095-99-6 (4458)		
Diethylphosphinylpropanoic acid; (CH3.CH2)2.PO.CH2.CH2.COOH									

Pm+++	ix	R4N.X	25°C	0.50M	U		K1=1.82 B2=3.25	1972EZa (58026)	40
Medium: NH4ClO4									

C8H5O2F3S		HL		TTA			CAS 326-91-0 (165)		
4,4,4-Trifluoro-1-(2-thienyl)butane-1,3-dione; F3C.CO.CH2.CO.C4H3S									

Pm+++	gl	alc/w	22°C	80%	U		K1=6.34 B2=11.84 K3=4.06	1995MTa (58665)	41
Medium: 0.1 M NaClO4 in 80% (v/v) EtOH/H2O.									

C8H8O3		HL		Mandelic Acid			CAS 611-72-3 (80)		
2-Phenyl-2-hydroxyethanoic acid; C6H5.CH(OH).COOH									

Pm+++	ix	NaClO4	20°C	0.20M	U		K1=2.32 B2=4.02 B3=5.11	1968WZa (59861)	42

C8H19O4P		HL					CAS 107-66-4 (2130)		
Dibutylphosphoric acid; (C4H9O)2P(O)OH									

Pm+++	dis	oth/un	26°C	0.10M	C I			1992SNc (63189)	43
K(Pm+5HL(org))=PmL3(HL)2(org)+3H)=15.7. Method: extraction of 147Pm from HNO3 solution into CFC-112. For extraction into benzene, K=2.54.									

Pm+++	kin	oth/un	25°C	?	U		K1=2.40	1971MGb (63190)	44

C8H22N2O6P2		H4L		EDDIPH			CAS 13516-59-1 (1355)		
Diaminoethane-N,N'-di(isopropylphosphonic)acid; (CH2.NH.C(CH3)2.PO3H2)2									

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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
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Pm+++      oth oth/un 25°C 0.10M U      K1=17.23      1971SHb (63355) 45
                                     K(Pm+HL)=13.91
                                     K(Pm+H2L)=8.91
                                     K(Pm+H3L)=6.28

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Method : electrical migration or transference number

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C9H7NO      HL      Oxine      CAS 148-24-3 (504)
8-Hydroxyquinoline (8-quinolinol);
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
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Pm+++      dis oth/un ? 0.0 U      K1=6.91 B2=13.25 1970BLd (64334) 46
                                     B3=19.08

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*****
C9H10O3      HL      Atrolactic acid CAS 940-31-8 (3859)
2-Hydroxy-2-phenylpropanoic acid; CH3.C(OH)(C6H5).COOH
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
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Pm+++      ix NaCl04 20°C 0.20M U      K1=2.34 B2=4.06 1968WZa (65441) 47
                                     B3=5.08

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Other Method: pH method

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*****
C10H5O2F7S      L      (6996)
1-(2-Thienyl)-3-heptafluoropropylpropane-1,3-dione; C3F7.C(0)CH2C(0)C4H3S
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
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Pm+++      gl alc/w 22°C 80% U      K1=6.16 B2=11.74 1995MTa (68431) 48
                                     K3=4.93

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Medium: 0.1 M NaCl04 in 80% (v/v) EtOH/H2O.

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*****
C10H7O2F3      HL      CAS 326-06-7 (196)
3-Benzoyl-1,1,1-trifluoroacetone; CF3.CO.CH2.CO.C6H5
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Pm+++      gl alc/w 22°C 80% U      K1=6.77 B2=13.33 1995MTa (69160) 49
                                     K3=5.66

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Medium: 0.1 M NaCl04 in 80% (v/v) EtOH/H2O.

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*****
C10H11NO5      H3L      CAS 100844-86-8 (2108)
N-(2-Hydroxyphenyl)iminodiethanoic acid; HO.C6H4.N(CH2.COOH)2
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
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Pm+++      dis R4N.X 25°C 0.10M U      1971EVa (71046) 50

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K(Pm+HL)=6.70
K(Pm+2HL)=11.56

Medium: 0.1 M NH₄ClO₄

C10H16N2O8 H4L EDTA CAS 60-00-4 (120)
1,2-Diaminoethane-N,N,N',N'-tetraethanoic acid, Sequestric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	ix	R4N.X	?	0.10M	U	I	K1=16.75	1971EZb (74076)	51

Medium: (NH₄ClO₄), I= near zero, K1=19.41

Pm+++	sol	R4N.X	20°C	0.10M	U	T	K1=16.94	1966STa (74077)	52
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Medium: NH₄Cl

Pm+++	ix	none	?	0.0	U		K1=16.75	1957FUa (74078)	53
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C12H7O2F7 L (6994)
1-Heptafluoropropyl-3-phenylpropane-1,3-dione; C₃F₇.CO.CH₂.CO.C₆H₅

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	gl	alc/w	22°C	80%	U		K1=6.39 B2=12.14 K3=5.63	1995MTa (80188)	54

Medium: 0.1 M NaClO₄ in 80% (v/v) EtOH/H₂O.

C13H5O2F13S L (6997)
1-(2-Thienyl)-3-tridecafluorohexylpropane-1,3-dione; C₆F₁₃.CO.CH₂.CO.C₄H₃S

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	gl	alc/w	22°C	80%	U		K1=5.66 B2=10.87 K3=4.44	1995MTa (84459)	55

Medium: 0.1 M NaClO₄ in 80% (v/v) EtOH/H₂O.

C13H22N2O9 H4L DETAP CAS 36829-96-6 (5602)
Bis(2-aminoethyl)ether-N,N,N'-triethanoic acid-N'-(3-propanoic acid);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	gl	KNO ₃	25°C	0.10M	C		K1=15.1 K(Pm+HL)=9.5	1985PLa (86308)	56

C14H12O2 HL Diphenylacetic CAS 117-34-0 (1952)
Diphenylethanoic acid; (C₆H₅)₂CH.CO₂H

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	ix	NaClO ₄	20°C	0.20M	U		K1=<2.15 B2=<4.0 B3 < 5.0	1968WZa (87333)	57

C14H16O3P2 HL CAS 1638-77-3 (5072)
(Methylenephosphinylmethyl)phenylphosphinic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	ix	R4N.X	25°C	0.20M	U	I	K1=3.40	1972EZb (88027)	58

Medium: NH4ClO4. I=0: K1=4.21

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
Pm+++	ix	oth/un	25°C	0.10M	U	I	K1=18.50	1971EZc (88752)	59

I=near 0, K1=21.16
At 80 C: K1(I=0.05)=18.99, K1(0.06)=19.01, K1(0.07)=18.93, K1(0.17)=17.83

Pm+++	dis	R4N.X	20°C	0.10M	U		K1=18.17	1966STa (88753)	60
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Medium: NH4Cl

C16H9N2OBr3 HL CAS 84317-74-8 (5169)
1-(2,4,6-Tribromophenylazo)-2-hydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	kin	oth/un	25°C	0.02M	U		K1=4.75	1972GSe (92661)	61

C16H35O4P HL CAS 298-07-7 (1625)
Di-(2-ethylhexyl)-phosphoric acid; (C2H5C6H12O)2P(O)OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pm+++	dis	oth/un	20°C	0.10M	C			1992SNb (95513)	62

Extraction of 147Pm from 0.10 M LiNO3/HNO3 medium into 90% CFC-112/benzene
K(Pm+4HL(org))=PmL3(HL)(org)+3H=2.00

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EXPLANATORY NOTES

DATA Flags are :-

T Data at other TEMPERATURES
 I Data with various BACKGROUNDS
 H Data for THERMOCHEMICAL quantities

EVALUATION Flags are :-

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

END