

SC-Database

Software version = 5.81 Data version = 4.62

Experiment list contains 600 experiments for

(no ligands specified)

2 metals : In+, In+++

(no references specified)

(no experimental details specified)

e- HL Electron (442)

Electron;

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

In+ vlt NaClO4 20°C 0.70M U 1965VIa (589) 1
K(In+e=In(s))=-2.17, -126 mV
K(In(III)+2In(s)=3In)=-10.89

Medium: 0.7M HClO4

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

Bromide;

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

In+ vlt NaNO3 23°C 0.70M U K1=0.90 B2=1.95 1982RDa (2041) 2
B(In2Br)=1.88

In+ vlt NaNO3 25°C 1.00M U K1=1.56 B2=2.01 1979SMb (2042) 3

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

Chloride;

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

In+ vlt NaNO3 23°C 0.70M U K1=2.04 B2=2.51 1982RDa (5069) 4

In+ vlt NaNO3 25°C 1.00M U K1=2.37 1979SMb (5070) 5

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

Fluoride;

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

In+ vlt NaNO3 23°C 0.70M U B2=4.85 1982RDa (6963) 6

In+ vlt oth/un 25°C 0.10M U K1=2.46 1979SMa (6964) 7

NO2- HL Nitrite CAS 7782-77-6 (635)

Nitrite;

 In+++ EMF NaClO₄ 25°C 3.0M U 1960BWa (596) 17
 K(In+2e=In(I))=-14.37(-425 mV)
 K(In+3e=In(s))=-17.40(-343 mV)
 K(2In+3In(s)=3In(I))=-8.4

 In+++ EMF none 25°C 0.0 U 1954KWa (597) 18
 K(2In+3e=In(I))=-13.7(-404.2 mV)
 K=-17.03(-335.8)
 K'=-6.94

K: In+3e=In(s). K=-17.66(18.5 C; 340.7 mV), -16.00(35 C; 326.1 mV), -13.71(60 C); -302.0 mV). K': In+2In(s)=3In(I). K'=-7.03(18.5 C), -6.74(40 C), -6.60(49.5 C)

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

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

 In+++ cal non-aq 25°C 100% C H K1=6.9 B2=12.20 1996TSa (2043) 19
 K3=3.26
 K4=1.92

Medium: N,N-Dimethylformamide, 0.20 M Et₄NClO₄.

DH(K1)=-2.9 kJ mol⁻¹, DH(K2)=0.5, DH(K3)=3.6, DH(K4)=54.2.

 In+++ oth NaClO₄ 25°C 3.0M C IH T K1=2.10 B2=3.05 1983TUa (2044) 20
 IUPAC evaluation. DH(K1)=1.95 kJ mol⁻¹, DS=44 J K⁻¹ mol⁻¹

 In+++ vlt oth/un 25°C 1.0M U K1=2.38 1982TTa (2045) 21
 in 1.0 M HClO₄/LiClO₄

 In+++ vlt NaClO₄ 20°C 4.0M C K1=2.10 B2= 2.40 1975KBd (2046) 22
 B3=2.50
 B4=0.60

Method: polarography. Medium pH 3.0.

 In+++ ISE non-aq 25°C 100% U K1=3.84 B2=6.78 1973SLd (2047) 23
 B3=7.00
 B4=8.87

Medium: DMSO, 1 M LiClO₄. Method: InHg electrode

 In+++ EMF non-aq 25°C 100% U K1=1.45 B2=1.81 1972SGc (2048) 24
 B3=2.49

Medium: formamide, 1.1 M NaNO₃

 In+++ vlt NaClO₄ 25°C 2.0M U K1=2.21 B2=2.71 1971MOa (2049) 25
 B3=2.56

 In+++ dis NaClO₄ 25°C 4.0M U K1=2.6 B2=3.24 1970HAb (2050) 26
 B3=3.24
 B4=2.18

In+++ oth oth/un ? var U K1=1.7 B2=2.40 1969HPb (2051) 27
K3=0.7

Method: Raman

In+++ ISE non-aq 25°C 100% U K1=3.51 B2=5.80 1969KSg (2052) 28
B3=8.30
B4=10.51
B5=13.2
B6=16.0

Medium: DMF, 1 M LiClO₄. Method: In amalgam electrode

In+++ cal NaClO₄ 25°C 2.0M U H 1969RYa (2053) 29
DH(K1)=1.97 kJ mol⁻¹, DH(K2)=5.65; DS(K1)=44.4 J K⁻¹ mol⁻¹, DS(K2)=30.5

In+++ ix none rt 0.0 U K2=1.3 1962AKb (2054) 30
K3=0.59
K4=-0.52
K5=-1.6
K6=-2.2

In+++ vlt NaNO₃ 25°C 4.0M U K1=1.36 B2=1.52 1962FSa (2055) 31
B2=1.72 by In/Hg electrode

In+++ ix NaClO₄ 20°C 0.69M U K1=2.06 B2=3.13 1959BKa (2056) 32
K3=0.34

Method: cation exchange. Medium: HClO₄

In+++ dis oth/un 25°C 0.0 U 1958DIA (2057) 33
K3=-1.22
K4=-1.92

In+++ sp NaClO₄ 22°C 4.0M U K1=2.08 B2=3.36 1957BHa (2058) 34
K3=0.60
K4=0.85

In+++ ix NaClO₄ 20°C 0.69M U K1=2.01 B2=3.10 1954CIA (2059) 35
K3=0.18

Method: cation exchange. Medium: HClO₄

In+++ vlt NaClO₄ 25°C 2.0M U K1=3.8 B2=4.8 1954CVb (2060) 36

In+++ gl oth/un 25°C var U K1=1.82 1954ROa (2061) 37

In+++ ix NaClO₄ 25°C 1.0M U K1=1.20 B2=1.78 1954SEb (2062) 38
K3=0.70

Method: cation exchange. Medium: NaClO₄, pH 3.8

In+++ ISE NaClO₄ 20°C 2.0M U K1=1.98 B2=2.56 1954SUa (2063) 39

In+++ dis NaClO₄ 20°C 1.0M U K1=1.93 B2=2.60 1954Sub (2064) 40
By cation exchange K1=1.90

In+++ gl oth/un 25°C var U K1=2.20 1952Hha (2065) 41

BrO₃- HL Bromate (6017)

Bromate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++ dis NaClO₄ 25°C 4.0M U K1=-0.12 1970HAb (2413) 42

C₆N₆Fe---- H4L (2191)

Hexacyanoferrate (II); Fe(II)(CN)₆----

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++ sol oth/un 25°C var U 1956TGb (3570) 43

K_{so}=-43.72

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

Chloride;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++ cal non-aq 25°C 100% C H K1=9.2 B2=16.60 1996TSa (5071) 44

K3=5.26

K4=2.91

Medium: N,N-Dimethylformamide, 0.20 M Et₄NCI₀₄.

DH(K1)=-14.9 kJ mol-1, DH(K2)=-10.7, DH(K3)=-6.9, DH(K4)=29.6.

In+++ EMF NaClO₄ 25°C 5.0M C K1=2.64 B2= 3.99 1994FSa (5072) 45

B3=4.45

B4=3.59

B5=2.65

B6=2.18

Method: In/Hg amalgam electrode

In+++ oth NaClO₄ 25°C 3.0M C IH T K1=2.40 B2=3.70 1983TUa (5073) 46

IUPAC evaluation. DH(K1)=5.1 kJ mol-1, DS=57 J K-1 mol-1

In+++ vlt oth/un 25°C 1.0M U K1=2.52 1982TTa (5074) 47

in 1.0 M HClO₄/LiClO₄

In+++ dis NaClO₄ 25°C 4.0M U K1=2.58 B2= 3.95 1980HSb (5075) 48

K3=0.06

K4=0.11

Distribution into n-hexane with trioctylphosphine oxide

In+++ vlt NaClO₄ 20°C 4.0M C K1=2.70 B2= 3.20 1975Kbd (5076) 49

$$B3=4.20$$

$$B4=3.30$$

Method: polarography. Medium pH 3.0.

In+++ ix NaClO₄ 20°C 0.69M U K1=2.40 B2=3.44 1974MId (5077) 50
B3=4.09 or 4.30

Medium: HClO₄

In+++ ISE non-aq 25°C 100% U K1=7.48 B2=9.30 1973SLd (5078) 51
B3=11.48
B4=13.30
B5=14.48

Medium: DMSO, 1 M LiClO₄. Method: In amalgam electrode. Using least squares:
B4=13.34, B5=14.56

In+++ ISE NaClO₄ 25°C 3.0M U T K1=2.58 B2=3.84 1972FEa (5079) 52
B3=4.2
 $K(InL+H_2O=InL(OH)+H)=-3.9$
 $K(InL+In+H_2O=In_2L(OH)+H)=-2.3$

Method: In amalgam and Ag electrodes

In+++ dis non-aq 25°C 100% U TI 1972G0c (5080) 53
 $K(InL_4+H)=3.2$

Medium: methylbutyl ketone, 25-40 °C. $K(InL_4+H)=3.3$ (60 °C)

In nitrobenzene: $K(InL_4+H)=3.9$

In+++ EMF non-aq 25°C 100% U K1=1.84 B2=1.86 1972SGc (5081) 54
Medium: formamide, 1.1 M NaNO₃

In+++ oth oth/un ? var U 1971SCc (5082) 55
K3=-0.5
K4=-0.7

Method: ionophoresis

In+++ dis NaClO₄ 25°C 4.0M U K1=2.61 B2=4.18 1970HAb (5083) 56

In+++ oth oth/un ? var U K1=1.0 B2=1.70 1969HPb (5084) 57
K3K4=1.5

Method: Raman

In+++ ISE non-aq 25°C 100% U K1=3.8 B2=6.0 1969KSg (5085) 58
B3=9.0
B4=11.4
B5=14.2
B6=17.8

Medium: DMF, 1 M LiClO₄. Method: emf with In amalgam electrode

In+++ ix NaNO₃ 25°C 1.50M U I K1=2.49 B2=4.03 1969MNb (5086) 59
B3=3.53 ?

In LiNO₃: K1=1.75. In KN₃: K1=2.67, B2=4.4, B3=4.9

In+++	cal	NaClO ₄	25°C	2.0M	U	H	K1=2.08 K3=-0.35	B2=3.58	1969RYa	(5087)	60
DH(K1)=5.2 kJ mol ⁻¹ , DS=57 J K ⁻¹ mol ⁻¹ ; DH(K2)=3.26, DS=40; DH(K3)=33.5, DS=109											
In+++	ix	NaClO ₄	?	0.50M	U	I	K1=2.47 B3=3.94	B2=3.11	1964VRa	(5088)	61
Method:cation exchange. Med: HClO ₄ . In 20% EtOH:K1=2.59, B2=3.75, B3=4.53; In 40% EtOH:K1=2.68, B2=4.18, B3=4.84.											
In+++	ix	none	25°C	0.0	U		K2=0.05 K3=0.45 K4=-1.6		1963MMd	(5089)	62
In+++	ISE	none	25°C	0.0	U		K1=1.72	B2=2.64	1962APa	(5090)	63
In+++	vlt	NaClO ₄	25°C	4.0M	U		K1=2.26 B3=3.55	B2=2.50	1962FSa	(5091)	64
In+++	dis	NaClO ₄	25°C	1.0M	U	I	K1=2.52		1961WKb	(5092)	65
Medium: HClO ₄ . K1=2.51 (I=2). Also distribution measurements											
In+++	ISE	none	25°C	0.0	U	M			1959ASd	(5093)	66
Kso(In(OH) _{3-x} Lx)=-20.88+0.86log[L]											
In+++	ix	NaClO ₄	20°C	0.70M	U		K1=2.27 K3=0.47	B2=3.67	1959BKa	(5094)	67
In+++	dis	none	25°C	0.0	U				1959MEc	(5095)	68
K3=-0.32 K4=-1.12											
In+++	dis	none	25°C	0.0	U				1958DId	(5096)	69
K3=-0.53 K4=-1.26											
In+++	ix	none	25°C	0.0	U		K1=1.0? K3=0.05 K4=-0.20	B2=1.5	1958MAb	(5097)	70
In+++	vlt	none	25°C	0.0	U		B2=6.28 B4=7.44		1958ZBa	(5098)	71
In+++	ix	NaClO ₄	20°C	0.69M	U		K1=2.36 K3=0.32	B2=3.63	1954CIa	(5099)	72
In+++	vlt	NaClO ₄	25°C	2.0M	U		K1=4.3	B2=6.1	1954CVb	(5100)	73
In+++	ix	NaClO ₄	25°C	1.0M	U		K1=1.42	B2=2.23	1954SEb	(5101)	74

K3=1.00

In+++ ISE NaClO₄ 20°C 2.0M U I K1=2.15 B2=3.59 1954SUa (5102) 75
By ion exchange, I=1.0 M, K1=2.18

In+++ dis NaClO₄ 20°C 1.0M U K1=2.20 B2=3.56 1954Sub (5103) 76

In+++ vlt none 25°C 0.0 U B2=1.7 1951SSb (5104) 77
B4=-1

In+++ gl oth/un 25°C var U K1=2.04 1941MOa (5105) 78

ClO₃- HL Chlorate CAS 7790-93-4 (971)
Chlorate;

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

In+++ dis NaClO₄ 25°C 4.0M U K1=-0.37 1970HAb (6036) 79

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

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

In+++ ISE KN0₃ 25°C 0.10M C M K1=3.64 B2=6.54 1987YHa (6965) 80
K($\text{InA}+\text{F}$) = 2.0(H₃A=NTA), 2.0(H₃A=HEDTA), 1.6(H₄A=EDTA), 2.1(H₄A=CDTA)

In+++ oth NaClO₄ 25°C 3.0M C IH R K1=3.70 B2=6.36 1983TUa (6966) 81
IUPAC evaluation. K2 T(entative)

DH(K1), T(entative)=9.1, DS=101 J K-1 mol-1

In+++ cal NaClO₄ 25°C 0.50M U I K1=3.75 B2=6.61 1974VKb (6967) 82
B3=8.60
B4=9.87

K1=3.69, B2=6.52, B3=8.63, B4=9.90(I=1); K1=3.74, B2=6.63, B3=9.04, B4=10.31(I=2)

In+++ cal none 25°C 0.0 U H K1=4.66 B2=8.12 1974VKb (6968) 83
B3=10.27
B4=11.54

DH(K1)=10.9 kJ mol-1, DH(B2)=23.2, DH(B3)=29.5, DH(B4)=38.0.

DH values also for I=0.5, 1.0, 2.0 M

In+++ EMF NaClO₄ 25°C 1.0M U H 1971WTa (6969) 84
K($\text{In}+\text{HF}=\text{InF}+\text{H}$)=0.78
K($\text{InF}+\text{HF}=\text{InF}_2+\text{H}$)=0.0

Method: quinhydrone electrode. By calorimetry: DH(K1)=12.5 kJ mol-1,
DS=114 J K-1 mol-1

In+++ ISE NaClO₄ 25°C ? U H K1=3.69 B2=6.52 1969RYa (6970) 85
K3=2.11

					K4=1.3
By calorimetry:	DH(K1)=9.2 kJ mol-1, DS=101 J K-1 mol-1; DH(K2)=7.7, DS=80; DH(K3)=13.8, DS=87				
In+++	dis NaClO4 25°C 1.0M U	K1=3.67 B3=8.61	B2=6.26	1968ALE (6971)	86
In+++	EMF none 25°C 0.0 U IH	K1=4.63		1955PAa (6972)	87
DH(K1)=10 kJ mol-1, DH(K2)=17; DS(K1)=DS(K2)=100 J K-1 mol-1					
At I=0 corr: K1=4.63, DS(K1)=DS(K2)=140					
In+++	EMF NaClO4 25°C 0.50M U TIH	K1=3.75 K(In+HF=InF+H)=0.84 K(InF+HF=InF2+H)=-0.30	B2=6.36	1954Hka (6973)	88
At 15 C: K1=3.70, K2=2.55, *K1=0.85, *K2=-0.30. 35 C: 3.83, 2.78, 0.83, -0.22.					
DH(K1)=10 kJ mol-1, DH(K2)=17, DH(*K1)=-2, DH(*K2)=4. At I=0 K1=4.63, DS=140					
In+++	ix NaClO4 25°C 1.0M U	K1=3.00 K3=2.82	B2=5.78	1954SEb (6974)	89
Method: cation exchange, pH 3.8					
In+++	EMF NaClO4 20°C 1.0M U	K1=3.70 K3=2.34 K4=1.10	B2=6.26	1954Sub (6975)	90

FC1BrI	HL	(541)			
Halides, comparative (for book data under ligand 80)					
Metal	Mtd Medium Temp Conc Cal Flags Lg K values			Reference	ExptNo
In+++	EMF NaNO3 25°C 4.0M U M			1962FSa (7406)	91
		B(InClBr)=2.54 B(InCl2Br)=2.86 B(InCl3Br)=2.90			
Medium: In/Hg electrode					

I-	HL Iodide	CAS 10034-85-2	(20)		
Iodide;					
Metal	Mtd Medium Temp Conc Cal Flags Lg K values			Reference	ExptNo
In+++	cal non-aq 25°C 100% C H	K1=4.2 K3=1.2 K4=1.8	B2= 7.20	1996TSa (8169)	92
Medium: N,N-Dimethylformamide, 0.20 M Et4NC1O4.					
DH(K1)=11.0 kJ mol-1, DH(K2)=12.6, DH(K3)=10, DH(K4)=54.					
In+++	vlt NaClO4 25°C 1.0M C	K1=3.10	B2= 3.80	1988MFb (8170)	93
Analysis of literature data, applying correction for adsorption on Hg drop					

In+++	vlt	oth/un	25°C	1.0M	U	K1=1.89	1982TTa	(8171)	94
in 1.0 M HClO4/LiClO4									
In+++	vlt	NaClO4	20°C	4.0M	C	K1=1.35 B3=1.30 B4=0.50	1975Kbd	(8172)	95
Method: polarography. Medium pH 3.0.									
In+++	ISE	non-aq	25°C	100%	U	K1=2.36	B2=2.83	1973SLc	(8173) 96
Medium: DMSO, 1 M LiClO4. In amalgam electrode. By least squares: K1=2.30, B2=2.85									
In+++	EMF	non-aq	25°C	100%	U	K1=1.0	B2=1.8	1972SGc	(8174) 97
Medium: formamide, 1.1 M NaNO3									
In+++	EMF	non-aq	25°C	100%	U	K1=3.25 B3=7.40 B4=8.32	1971SAG	(8175)	98
Medium: DMF									
In+++	dis	NaClO4	25°C	4.0M	U	K1=1.97 B3=1.9 to 2.2	1970HAb	(8176)	99
In+++	cal	NaClO4	25°C	2.0M	U	H	1969RYa	(8177) 100	
DH(K1)=-3.0 kJ mol-1, DH(K2)=3.4; DS(K1)=9.6 J K-1 mol-1, DS(K2)=35.1									
In+++	con	non-aq	140°C	100%	U		1967BNc	(8178) 101	
K(I _n I ₃ +I ₂ =I+I _n I ₄)=-1.89									
Medium: liquid I ₂									
In+++	gl	oth/un	25°C	var	U	K1=1.69	1964PCa	(8179) 102	
In+++	ix	NaClO4	20°C	0.69M	U	K1=1.64 K3=-0.08	1954CIA	(8180) 103	
Method: cation exchange. Medium: HClO4									
In+++	vlt	NaClO4	25°C	2.0M	U	K1=3.1	B2=3.8	1954CVb	(8181) 104
In+++	ix	NaClO4	25°C	1.0M	U	K1=0.30	1954SEb	(8182) 105	
Method: cation exchange at pH=3.8									
In+++	gl	NaClO4	20°C	2.0M	U	K1=1.00	B2=2.26	1954SUb	(8183) 106
In+++	gl	oth/un	25°C	var	U	K1=1.98	1952HHA	(8184) 107	

IO ₃ -		HL	Iodate			CAS 7782-68-5	(1257)		
Iodate;									
Metal	Mtd	Medium	Temp	Conc	Cal	Lg	K values	Reference	ExptNo

In+++ dis NaClO₄ 25°C 4.0M U K1=1.02 B2=2.64 1970HAb (8521) 108

IrCl₆--- H3L (1615)

Hexachloroiridate;

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

In+++ gl NaClO₄ 25°C 0.10M U T K1=2.15 1979SKa (8622) 109

Data also available when T=20, 35 and 42.

Alternative method: Kinetic methods.

NH₃ L Ammonia CAS 7664-41-7 (414)

Ammonia

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

In+++ gl R4N.X 25°C 5.00M U K1=4.0 1985MMa (9170) 110

NO₂- HL Nitrite CAS 7782-77-6 (635)

Nitrite;

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

In+++ gl NaClO₄ 25°C 1.00M U K1=2.6 B2=4.0 1990EAa (9382) 111
B3=4.9

NO₃- HL Nitrate CAS 7697-37-2 (288)

Nitrate;

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

In+++ oth NaClO₄ 20°C 0.69M C IH T K1=0.18 B2=-0.31 1983TUa (9714) 112
IUPAC evaluation

In+++ dis NaClO₄ 25°C 4.0M U K1=-0.43 1970HAb (9715) 113

In+++ ix NaClO₄ 20°C 0.69M U T K1=0.18 B2=-0.31 1968FDb (9716) 114

N₃- HL Azide CAS 7782-79-8 (441)

Azide;

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

In+++ vlt NaClO₄ 25°C 2.0M C K1=3.57 B2= 5.93 1995TBa (10235) 115
B3=7.70
B4=9.32

Method: polarography.

In+++ gl NaClO₄ 25°C 2.0M C K1=3.31 B2= 5.61 1989BTa (10236) 116
B3=7.26

B4=8.46

In+++ gl NaClO4 25°C 1.00M C H K1=3.19 B2=5.61 1982AVb (10237) 117
B3=7.26
B4=8.46

DH(K1)=-7.4 kJ mol-1; DH(B2)=-4.0; DH(B3)=-10; DH(B4)=-9

OH- HL Hydroxide (57)
Hydroxide;

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

In+++ gl KN03 25°C 0.10M C 1982BEa (11622) 118
*K1=-4.310
*B2=-9.35
*B(4,4)=-7.32
*B(5,5)=-9.120

In+++ gl NaClO4 25°C 3.00M C I 1982BFa (11623) 119
*K1=-4.23
*B(2,2)=-5.27
*B(4,6)=-13.79

In+++ ISE mixed 25°C 0.10M U 1981YRa (11624) 120
K[In(OH)+H]=6.75
0.1 M LiClO4 in 0.5 mol parts DMSO in H2O; for 1.0 M LiClO4 K=7.13
In-electrode

In+++ ISE mixed 25°C 0.10M U 1981YRb (11625) 121
K[In(OH)+H]=4.86
0.1 M LiClO4 in 0.48 mol parts dioxane in H2O; for 1.0 M LiClO4 K=4.49
In-electrode

In+++ ISE mixed 25°C 1.0M U 1980YRa (11626) 122
K[In(OH)+H]=2.74
K[In(OH)2+2H]=5.29
K[In(OH)+H]=4.07 in 100% H2O
1 M LiClO4 in 0.33 mol parts CH3CN in H2O; In-electrode
for 1 M LiClO4 in 0.65 mol parts CH3CN K(InOH+H)=2.35

In+++ gl KN03 21°C 0.10M M 1976KSe (11627) 123
*K1=-3.634

In+++ gl mixed 25°C 3.0M C I 1975KYa (11628) 124
K[In(OH)+H]=2.94
K[In(OH)2+2H]=5.53
In 3.0 M LiClO4 in 0.13 mol parts acetonitrile in H2O
For 3.0 M LiClO4 in 100% H2O K(In(OH)+H)=4.22

In+++ gl mixed 25°C 3.0M C 1975KZa (11629) 125

$$K[\text{In(OH)}+\text{H}] = 3.64$$

$$K[\text{In(OH)}_2 + 2\text{H}] = 6.5$$

In 3.0 M LiClO₄ in 0.36 mol parts acetone in H₂O

For 3.0 M LiClO₄ in 100% H₂O K_a(HIn(OH)⁺) = 4.26

In+++ EMF NaClO₄ 25°C 1.50M U 1974G0c (11630) 126
*B(2,2)=-7.85
*B(2,3)=-10.30
*B(2,4)=-13.25

In+++ gl mixed 25°C 0.11M U I 1974KYa (11631) 127
*K1=-4.35
*B2=-7.41

Medium: 0.11 M DMSO/H₂O, M LiClO₄. In aqueous soln., *K1=-4.22, *B2=-7.14. In 0.28 M DMSO, *K1=-4.55, *B2=-7.70. In 0.56 M DMSO, *K1=-4.82, *B2=-7.96

In+++ gl mixed 25°C 0.84M U I 1974KYa (11632) 128
*K1=-5.19
*B2=-8.25

Medium: 0.84 M DMSO/H₂O, 3 M LiClO₄. In 1.12 M DMSO, *K1=-5.89, *B2=-8.52. In 1.68 M DMSO, *K1=-6.10, *B2=-8.62. In 2.26 M DMSO, *K1=-6.70, *B2=-8.70

In+++ gl mixed 25°C 0.50M U *K1=-3.63 1974KYa (11633) 129

Medium: 0.5 to 2.6 M N,N-dimethylformamide/H₂O, 3 M LiClO₄

In+++ kin oth/un 25°C U *K1=-5.0 1970HRb (11634) 130

In+++ sol oth/un 25°C U 1970IEb (11635) 131
 $K(\text{InL3(s)} + \text{L} = \text{InL4}) = -3.9$
 $K(\text{InL3(s)} + 2\text{L} = \text{InL5}) = -5.5$
 $K(\text{InL3(s)} + 3\text{L} = \text{InL6}) = -7.3$

In+++ dis NaClO4 25°C 3.00M U K1=9.59 B2=19.43 1969ALc (11636) 132

In+++ sp NaClO₄ 25°C 0.10M U I K1=10.52 B2=20.32 1969BND (11637) 133
B3=29.26

K1=10.60, B2=20.59, B3=29.63(I=0.3); K1=10.67, B2=20.78, B3=29.93(I=0.5);
 K1=10.89, B2=21.34, B3=30.88(I=1) Glass electrode also used

In+++ dis oth/un 25°C 1.00M U 1965SAe (11638) 134
*K1=-2.11
*K2=-2.45
*K3=-2.68

In+++ sol none 25°C 0.0 U 1963TPa (11639) 135
 $*K_s(In(OH)_3 + H = In(OH)_2 + H_2O) = 0.2$
 $K_s(In(OH)_3(s) + OH = In(OH)_4) = -3.0$
 $K_s(In(OH)_3 + 2OH) = -1.6?$

$K_s(\text{In(OH)}_3 + 3\text{OH}) = -0.5?$

In+++ gl NaCl 25°C 3.0M U 1961BLc (11640) 136
*K1=-6.95
*B(2,2)=-10.15

In+++ vlt none 20°C 0.0 U 1961KBc (11641) 137
 $K_{so} = -32.85$

In+++ cal NaClO₄ 25°C 3.0M U H 1961SCb (11642) 138
 $DH(*K1) = 20.3 \text{ kJ mol}^{-1}$, $DS = -17$; $DH(*B2) = \text{ca. } 59?$, $DH(*B(2,2)) = 42.6$, $DS = 43.1$;
 $DH(*B(n+1,2n)) = 42.59n$, $DS = 53.1n - 10.0$

In+++ gl none 25°C 0.0 U 1959ASd (11643) 139
 $K_{so} = -36.92$

In+++ oth none 25°C 0.0 U 1958VPa (11644) 140
* $K_{so} = 7.73(\text{In2O}_3)$
* $K_{so} = 8.65(\text{In(OH)}_3)$

* $K_{so}(1/2\text{In}_2\text{O}_3(s) + 3\text{H} = \text{In} + 1.5\text{H}_2\text{O})$; * $K_{so}(\text{In(OH)}_3(s) + 3\text{H} = \text{In} + 3\text{H}_2\text{O})$

Method: combination of thermodynamic data

In+++ gl NaClO₄ 25°C 3.0M U 1956BIa (11645) 141
*K1=-4.42
*K2=-3.9
*B(2,2)=-5.21
*B(n+1,2n)=-0.52-4.69n

* $B(m,n)(m\text{In} + n\text{H}_2\text{O} = \text{In}_m(\text{OH})_n + n\text{H})$. Method: also with In/Hg electrode

In+++ dis NaClO₄ 25°C 3.0M U 1956RRa (11646) 142
*K1=-4.4
*K2=-4.4

In+++ gl none 18°C 0.0 U 1949LAa (11647) 143
 $K_{so} = -33.9$

In+++ gl oth/un 25°C var U 1942MOa (11648) 144
*K1=-4.92(in InCl₃)
*K1=-4.85(in InBr₃)
*K1=-4.74(in InI₃)
*K1=-3.85

In+++ gl oth/un 25°C dil U T 1941MOa (11649) 145
 $K_{so} = -33.2$
 $K_{so} = -34.4(10 \text{ C}), -32.6(40 \text{ C})$

In+++ gl oth/un 25°C dil U 1938OKa (11650) 146
 $K_{so} = -33.2$

In+++ oth oth/un 23°C dil U 1936HVa (11651) 147

*K1=-3.70

In+++ vlt oth/un 25°C 1.0M U 1925HEa (11652) 148

Kso=-33(fresh)

Kso=-35(aged)

Ks($\text{In(OH)}_3(s)+\text{OH}$)=-4.6

*Ks($\text{In(OH)}_3+\text{H}_2\text{O}=\text{In(OH)}_4$)=-18.6

P04--- H3L Phosphate CAS 7664-38-2 (176)
Phosphate;

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

In+++ sp NaClO₄ 25°C 0.20M U 1980FIa (13222) 149
K(In+HPo_4)=7.40
K(In+2HPo_4)=13.71

In+++ ix R4N.X 25°C 0.20M U 1974FGc (13223) 150
K($2\text{In}+\text{H}_2\text{L}=\text{In}_2\text{HL}+\text{H}$)=0.09

In+++ ix NaClO₄ 20°C 0.90M U 1974FKa (13224) 151
K($\text{In+H}_2\text{L}$)=2.34

In+++ sol NaClO₄ 25°C 1.0M U 1968DTa (13225) 152
Kso=-21.63

P207---- H4L Pyrophosphate CAS 2466-09-3 (198)
Diphosphate; from ($\text{HO})_2\text{P}_2\text{O}_5\text{.PO(OH)}_2$)

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

In+++ dis NaClO₄ 20°C 0.10M U 1978ISa (13600) 153
K(In+HL+L)=21.99
B(InL_2)=23.80

In+++ sp NaClO₄ 20°C 0.10M U I 1969SAd (13601) 154
K(In+HL)=10.2
K($\text{In+HL+H}_2\text{L}$)=14.3

When I=0 corr, K(In+HL)=12.3, K($\text{In+HL+H}_2\text{L}$)=15.8

In+++ sol oth/un 20°C var U T 1964GLa (13602) 155
Kso(In_4L_3)=-62.5
K($\text{InHL}(s)=\text{In+HL}$)=-12.44

P3010---- H5L CAS 10380-08-2 (1001)
Tripolyphosphate; from ($\text{HO})_2\text{P}_2\text{O}_5\text{.PO(OH)}_2\text{.PO(OH)}_2$)

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

In+++ sp NaClO₄ 20°C 0.10M U I 1967ASc (13867) 156

$$K(\text{In}+2\text{H}_2\text{L})=12.18$$

K=14.16(0 corr)

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

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

In+++ oth none 25°C 0 U 1988Lia (14402) 157

$$K_{\text{so}}(\text{In}_2\text{S}_3)=-96.3$$

$$*K_{\text{so}}(\text{In}_2\text{S}_3)=-44.3$$

Derived from thermodynamic data and $K(\text{H}+\text{S}=\text{HS})=17.3$.

In+++ sp NaClO4 20°C 1.0M U 1970TSa (14403) 158

$$K(\text{In}+\text{HL})=10.5$$

$$K(\text{InHL}+\text{HL})=6.6$$

$$K_{\text{so}}=-77.4$$

In+++ oth none 25°C 0.0 U 1962TSb (14404) 159

$$K_{\text{so}}(\text{In}_2\text{L}_3)=-73.24$$

From thermodynamic data. By solubility $K(\text{In}_2\text{L}_3(s)+6\text{H}=2\text{In}+3\text{H}_2\text{L})=-6.74$

SCN- HL Thiocyanate CAS 463-56-9 (106)

Thiocyanate;

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

In+++ cal non-aq 25°C 100% C IH K1=5 B2= 8.70 1996TSa (15090) 160

$$K3=3.1$$

$$K4=2.4$$

$$K5=1.26$$

Medium: N,N-Dimethylformamide, 0.20 M Et4NClO4. Also data at 0.4 M Et4NClO4

DH(K1)=-3.03 kJ mol-1, DH(K2)=-3.1, DH(K3)=-3.9, DH(K4)=-6.5, DH(K5)=-11.

In+++ sp non-aq 25°C 100% U IH K1=4.83 1987PGa (15091) 161

Medium: DMF. DH=0.69 kJ mol-1; DS=92 J K-1 mol-1

In+++ vlt NaClO4 20°C 4.00M U K1=1.89 B2=4.09 1985KBa (15092) 162

$$B3=4.89$$

$$B4=4.66$$

$$B5=5.05$$

In+++ oth NaClO4 25°C 3.0M C IH T K1=2.53 B2=3.88 1983TUa (15093) 163

IUPAC evaluation. DH(K1)=-7 kJ mol-1, DS=25 J K-1 mol-1

In+++ vlt oth/un 25°C 1.0M U K1=2.65 1982TTa (15094) 164

in 1.0 M HClO4/LiClO4

In+++ dis NaClO4 25°C 3.0M U I K1=2.40 B2=3.78 1974HSb (15095) 165

$$B3=4.58$$

					B4=4.9		
					B5=4.4		
K1=2.33, B2=4.06(I=0.1); K1=1.89, B2=3.60, B3=3.85, B4=4.2(I=1); K1=1.98, B2=3.65, B3=4.1, B4=4.5(I=2); K1=2.44, B2=4.11, B3=5.1, B4=5.3, B5=5.6(I=4)							

In+++	vlt	NaNO ₃	27°C	2.0M	U	K1=0.78 B3=3.91	1973RTb (15096) 166

In+++	ISE	non-aq	25°C	100%	U	T K1=2.02 B3=5.13	1973SLc (15097) 167
Medium: DMSO, 1 M LiClO ₄ . Method: In amalgam electrode							

In+++	dis	NaClO ₄	?	1.0M	U	K1=2.18 B3=4.20 B4=5.30	1973SSb (15098) 168

In+++	EMF	non-aq	25°C	100%	U	K1=2.10 B3=3.18 B4=3.76	1972SGc (15099) 169
Medium: formamide							

In+++	vlt	NaClO ₄	25°C	2.0M	U	K1=2.56 B3=4.8 B4 < B3	1971MOa (15100) 170

In+++	EMF	non-aq	25°C	100%	U	T K1=4.17 B3=8.30 B4=10.34	1971SAg (15101) 171
Medium: N,N-dimethylformamide							

In+++	dis	NaClO ₄	25°C	4.0M	U	K1=2.44 B3=5.10 B4=4.57 B5=5.45	1970HAb (15102) 172

In+++	cal	NaClO ₄	25°C	2.0M	U H		1969RYa (15103) 173
DH(K1)=-6.95 kJ mol ⁻¹ , DS=25.5 J K ⁻¹ mol ⁻¹ ; DH(K2)=-15.9, DS=-35.1							
DH(K3)=10.0, DS=53.1							

In+++	sp	oth/un	30°C	0.0	U T	T K1=3.15	1968DDa (15104) 174
Medium: 0 corr. Using ISE: K1=3.26							

In+++	vlt	NaClO ₄	25°C	2.0M	U	T K1=1.7 B3=2.08 B4=3.22	1965NHa (15105) 175

In+++	sp	NaClO ₄	20°C	0.60M	U	T K1=2.34	1964KSe (15106) 176

In+++	ISE	NaClO ₄	20°C	1.60M	U I	K1=2.58 B3=4.74	1963GSc (15107) 177

B4=4.80

In 70% MeOH B4=9.00, B5=9.10. 100% MeOH B5=15.11 plus other concentrations

In+++ ISE non-aq 20°C 100% U I 1963GSd (15108) 178

B4=12.5

Medium: DMF(Me₂NCHO), 1.2 M NaClO₄. Also B1-B4 values at 25, 50 and 70%.

In MeCN: B6=27.26 and B1 to B5 in 25%, 50, 70% MeCN. In amalgam electrode

In+++ vlt NaClO₄ 30°C 2.0M U T K1=2.08 B2=3.20 1963RSd (15109) 179

B3=4.24
B4=4.23
B5=4.81
B6=4.84

In+++ sp NaClO₄ 25°C 1.0M U T B2=4 1962SAd (15110) 180

In+++ ISE NaClO₄ 20°C 2.0M U T K1=2.58 B2=3.60 1954SUb (15111) 181
K3=1.03

SO₄-- H2L Sulfate CAS 7664-93-9 (15)

Sulfate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	NaClO ₄	25°C	0.20M	C				2001RSa (16256)	182
								Kout(In+SO ₄)=1.64		

Method: absorption and fluorescence spectra.

In+++	oth	NaClO ₄	25°C	1.0M	C I	R	K1=1.78	B2=2.53	1983TUa (16257)	183
							K3=0.4 (T)			

IUPAC evaluation

In+++	vlt	NaClO ₄	25°C	1.10M	U		K1=2.0		1972TSg (16258)	184
In+++	cal	none	25°C	0.0	U H		K1=3.04	B2=5.00	1969IEa (16259)	185
DH(K1)=29.1 kJ mol ⁻¹ , DS=155.5 J K ⁻¹ mol ⁻¹ ; DH(K2)=-7.3, DS=13.0										
In+++	dis	NaClO ₄	25°C	1.0M	U		K1=1.79	B2=2.51	1968ALE (16260)	186
In+++	sol	NaNO ₃	25°C	2.0M	U		K1=1.78		1966DRa (16261)	187
In+++	oth	oth/un	?	0.10M	U				1964LAb (16262)	188
							K1in/K1=-0.3			

Method: infrared spectra. Medium: In₂L₃

In+++	sp	oth/un	30°C	0.0	U		K1=3.74		1962NAc (16263)	189
In+++	EMF	NaClO ₄	20°C	2.0M	U I		K1=1.78	B2=1.88	1954SUa (16264)	190
							K3=0.48			

Method: quinhydrone/In electrodes. By cation ion exchange, 1 M NaClO₄ K1=1.74

By distribution K1=1.85, K2=0.75, K3=0.40

SeCN- HL Selenocyanate CAS 73102-11-2 (440)
Selenocyanate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	EMF	non-aq	25°C	100%	U	I		K1=17.49 B2=19.15 B3=20.75 B4=22.25 B5=24.04 B6=25.46	1972SMd (16990)	191

Medium: acetone ,I=1. In MeCN: B6=24.49; in DMF: K1=7.00, B2=8.75, B3=10.49;
in DMSO: K1=5.32, B2=5.87

SeO3-- H2L Selenite CAS 7783-00-8 (2391)
Selenite;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sol	oth/un	20°C	var	U				1959MIA (17064)	192

Kso($\text{In}_2\text{L}_3(\text{H}_2\text{O})_6$)=-32.6

CH2O2 HL Formic acid CAS 64-18-6 (37)
Methanoic acid; H.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	NaNO ₃	25°C	2.00M	U	M		K1=2.90 B2=4.00 B3eff=5.60 B4eff=6.28	1987KSb (17617)	193

Data at pH 5 (all Keff ?)

In+++	EMF	NaClO ₄	20°C	2.0M	U	T	K1=2.74 K3=0.98 K4=1.00	B2=4.72	1953SUC (17618)	194
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CH₄N₂S L Thiourea CAS 62-56-6 (51)
Thiocarbamide, Thiourea; (H₂N)₂CS

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	KCl	26°C	1.0M	C	M		K1=1.17 B3=5.20 B($\text{In}(\text{bpy})\text{L}$)=4.95 B($\text{In}(\text{bpy})_2\text{L}$)=6.27 B($\text{In}(\text{bpy})\text{L}_2$)=5.36	1987LPb (17836)	195

Method: polarography. Medium pH 4.5.

In+++	vlt	NaClO ₄	25°C	0.50M	U		K1=1.97		1978TLb (17837)	196
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C2H2O4 H2L Oxalic acid CAS 144-62-7 (24)
Ethanedioic acid; (COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
In+++	gl	NaClO4	20°C	0.10M	U		K1=7.78	1985SAa (18927)	197
In+++	ISE	KNO3	25°C	0.10M	C		K1=6.02 K3=14.53	1984PGa (18928)	198
In+++	dis	NaClO4	25°C	1.0M	U		K1=5.30	B2=10.52	1966HSa (18929) 199
In+++	dis	NaClO4	20°C	0.10M	U			1963STc (18930)	200
							B3=14.7		
In+++	ix	oth/un	?	?	U			1960WTa (18931)	201
							K(In+HL)=3.08		

C2H3O2C1 HL Chloroacetic CAS 79-11-8 (34)
Chloroethanoic acid; ClCH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
In+++	ix	none	?	0.00	U		K1=0.71 B3=3.39	1973Lab (19369)	202

C2H4O2 HL Acetic acid CAS 64-19-7 (36)
Ethanoic acid; CH3.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
In+++	gl	NaClO4	20°C	0.10M	U		K1=3.18	1985SAa (20006)	203
In+++	vlt	NaClO4	0°C	0.10M	U		K1=3.54 B3=7.95 B4=9.04 B5=11.15	1975VMa (20007)	204

curve fitting method: K1=3.52, B2=5.93, B3=7.91, B4=9.00 ;
other method: K1=3.54, B2=5.86, B3=7.89, B4=9.23

In+++	vlt	oth/un	25°C	0.50M	U			1957CRa (20008)	205
B3=10.6									

In+++	EMF	NaClO4	20°C	2.0M	U	T	K1=3.50 K3=1.95 K4=1.18	B2=5.95	1953SUC (20009) 206
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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
In+++	gl	KNO ₃	25°C	0.50M	M			K1=12.57 B3=31.21 B4=36.3	1984Tza (20332)	207

In+++	gl	NaClO ₄	25°C	0.20M	U T			K1=12.10 K3=6.34	1973SMc (20333)	208
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45 C: K1=11.87, K2=10.07, K3=6.00

C₂H₄O₃ HL Glycolic acid CAS 79-14-1 (33)

2-Hydroxyethanoic acid; HO.CH₂.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	oth	NaClO ₄	25°C	1.0M	C I R			K1=2.99 K3=1.70	1983TUa (20563)	209

IUPAC evaluation

In+++	gl	NaClO ₄	25°C	0.20M	U T	T	K1=2.91	B2=5.44	1973SMc (20564)	210
35 C:	K1=3.00, K2=2.58;	45 C:	K1=3.07, K2=2.63							

In+++	ix	NaClO ₄	25°C	0.50M	U	T	K1=2.93	B2=5.4	1968T0a (20565)	211
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In+++	ix	NaClO ₄	?	0.30M	U		K1=3.15		1960WTa (20566)	212
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In+++	gl	oth/un	?	0.14M	U		K1=2.95		1960WTa (20567)	213
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In+++	EMF	NaClO ₄	20°C	2.0M	U	T	K1=2.93 K3=1.78 K4=0.65	B2=5.52	1953SUC (20568)	214
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C₂H₅N₀2 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
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In+++	gl	NaClO ₄	20°C	0.10M	U		K1=8.55		1985SAa (21589)	215
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In+++	gl	NaClO ₄	25°C	0.20M	U T		K1=2.39		1973SMc (21590)	216
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35 C: K1=2.46; 45 C: K1=2.54

C₂H₅N₀2 HL Acetohydroxamic CAS 546-88-3 (2766)

Acetohydroxamic acid, N-Hydroxyacetamide; CH₃.CO.NHOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++	gl	NaCl	31°C	0.15M	U I		K1=7.42	B2=14.46	1992SKa (21813)	217
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Also data for 25 and 50% v/v EtOH/H₂O.

C2H6OS HL CAS 60-24-2 (841)
2-Mercaptoethanol; HS.CH2.CH2.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KNO ₃	20°C	0.10M	U	M		K1=9.1 K3=6.91 K4=5.82 K(InL ₂ +Cl)=0.18	1972TSb (22070)	218

C2H7NS HL CAS 60-23-1 (588)
2-Aminoethanethiol; H₂N.CH₂.CH₂.SH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KCl	25°C	0.10M	C			K1=12.25 B(InHL)=16.56	1995LMA (22494)	219
In+++	dis	NaClO ₄	20°C	1.00M	U				1985MKc (22495)	220

K(In+H₂L)=2.30
K(In+HL)=6.20

Extraction by bis(2-ethylhexyl)phosphoric acid and TTA

C2H9N06P2 H₄L (6773)
(Aminoethylene)diphosphonic acid, 1-Aminoethane-1,1-di(phosphonic acid);
H₂N.C(CH₃)(PO₃H₂)₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaNO ₃	24°C	0.20M	C			K1=27.7 K(InL+H)=3.7 K(InHL+H)<1 K(InL ₂ +H)=9.6 K(InHL ₂ +H)=8.4	1993BRA (23420)	221

K(InH₂L₂+H)=4.8, K(InH₃L₂+H)=1.0, K(InH₄L₂+H)<1, K(InH₅L₂+H)<1

C2H16N5O4Co HL (231)
Pentaammineoxalatocobalt(III); Co(NH₃)₅(HC₂O₄)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	NaClO ₄	28°C	0.30M	U			K1=2.39	1974NDA (23475)	222
C3H3O4Br		H ₂ L	Bromomalonic		CAS 600-31-7	(6296)				
2-Bromo-propanedioic acid, Bromomalonic acid; HOOC.CHBr.COOH										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaClO ₄	30°C	0.10M	U			K1=5.08 B2=8.89	1976DGd (23538)	223

K3=3.39

C3H404 H2L Malonic acid CAS 141-82-2 (79)
Propanedioic acid; CH₂(COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
In+++	vlt	NaNO ₃	25°C	2.00M	U	M		1987KSb (24469)	224
							B3eff=7.81		

Data at pH 5 (all Keff ?)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo	
In+++	ISE	KNO ₃	25°C	0.10M	C		K1=5.97	B2=10.13	1984PGa (24470)	225
In+++	gl	NaClO ₄	30°C	0.10M	U		K1=5.55	B2=9.32	1976DGd (24471)	226
							K3=3.08			

C3H602 HL Propionic acid CAS 79-09-4 (35)
Propanoic acid; CH₃.CH₂.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo	
In+++	EMF	NaClO ₄	20°C	2.0M	U	T	K1=3.57	B2=6.36	1953SUC (25014)	227
							K3=1.79			
							K4=0.93			

C3H602S 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	
In+++	gl	NaClO ₄	25°C	3.00M	C		K1=13.12		1988AFa (25151)	228
							B(InH-1L)=10.69			
							B(InH-2L)=8.21			
In+++	gl	NaClO ₄	25°C	0.20M	U T		K1=12.28	B2=23.00	1973SMc (25152)	229
							K3=6.55			

35 C: K1=12.15, K2=10.56, K3=6.37; 45 C: K1=12.01, K2=10.41, K3=6.40

C3H602S 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	
In+++	gl	alc/w	25°C	50%	M		K1=13.35	B2=22.8	1984Tza (25212)	230
In+++	gl	KNO ₃	20°C	0.50M	U		B2=19.91		1978KSa (25213)	231
							B3=26.66			
							B4=30.528			
							B(In2L2)=25.767			
							B(In3L4)=48.606			

In+++ gl NaClO₄ 25°C 0.10M U TI K1=11.87 B2=19.53 1972SMa (25214) 232
K3=6.25

35 C, K1=11.73, K2=7.59, K3=6.08; 45 C, K1=11.60, K2=7.46, K3=5.98. Data
also in 0.1, 0.2, 0.3 and 0.4 NaClO₄.

C3H6O₃ HL CAS 81598-26-7 (2521)

3-Hydroxypropanoic acid; HO.CH₂.CH₂.COOH

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

In+++ gl NaClO₄ 25°C 0.10M U TI K1=3.75 B2=6.79 1972SMa (25267) 233
I=0.2 M: K1=3.71, K2=3.01. 35 C: K1=3.86, K2=3.12; I=0.2: K1=3.80, K2=3.10;
I=0.4: K1=3.72, K2=3.03

In+++ gl none 25°C 0.00 U T B2=6.96 1972SMa (25268) 234
35 C: B2=7.20; 45 C: B2=7.45

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

In+++ gl NaClO₄ 20°C 0.10M U K1=3.71 1985SAa (25465) 235

In+++ gl NaClO₄ 25°C 0.20M U T T K1=3.14 B2=5.74 1973SMc (25466) 236
35 C, K1=3.21, K2=2.66; 45 C, K1=3.29, K2=2.71

C3H₇N₀2 HL Alanine CAS 56-41-7 (86)

2-Aminopropanoic acid; H₂N.CH(CH₃).COOH

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

In+++ vlt KNO₃ 30°C 0.50M U K1=9.18 B2=16.49 1981MNb (26191) 237
Method: polarography.

In+++ gl NaClO₄ 25°C 0.20M U T K1=2.51 1973SMc (26192) 238
K1(35 C)=2.57, K1(45 C)=2.63

C3H₇N₀2 HL B-Alanine CAS 107-95-9 (575)

3-Aminopropanoic acid; H₂N.CH₂.CH₂.COOH

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

In+++ gl NaClO₄ 25°C 0.10M U TI K1=2.72 B2=5.26 1972SMa (26459) 239
K1(35 C)=2.78, K2(35 C)=2.64; K1(45 C)=2.83, K2(45 C)=2.73. Data also for
I=0.2, 0.3 and 0.4 M NaClO₄

In+++ gl none 25°C 0.00 U T B2=5.33 1972SMa (26460) 240
B2(35 C)=5.51, B2(45 C)=5.67

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
In+++	gl	KNO ₃	21°C	0.10M	M			K1=14.12 B2=27.26 B3=32.20 B(InHL)=18.46 B(InHL2)=31.78 B(InH2L2)=35.74	1975KSd (26802)	241

C3H7NS2 HL CAS 128-04-1 (2125)
Dimethyldithiocarbamic acid; (CH₃)₂N.CSSH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	EMF	non-aq	25°C	100%	U				1987USA (27276)	242

B3=27.5

Medium: DMF, 0.1 M LiClO₄

C3H8O3S3 H3L Unithiol CAS 74-61-3 (1271)
2,3-Dimercaptopropanesulfonic acid; HS.CH₂.CH(SH).CH₂.SO₃H

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	dis	oth/un	?	?	U			K(In2L3)=55.3	1971EPd (27792)	243

C3H9NS HL CAS 462-47-5 (1566)
3-Aminopropane-1-thiol; H2N.CH₂.CH₂.CH₂.SH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	dis	NaClO ₄	20°C	1.00M	U				1985MKc (27954)	244

K(In+H2L)=3.10
K(In+HL)=8.10

Extraction by bis(2-ethylhexyl)phosphoric acid and TTA

C3H11N06P2 H4L (6772)
(Dimethylamino)-N-methylenediphosphonic acid; (CH₃)₂N.CH(P(03H₂)₂)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaNO ₃	24°C	0.20M	C			K1=30.0 B2=35.8 K(InL+H)=9.5 K(InHL+H)<1 K(InL2+H)=10.8 K(InHL2+H)=9.9	1993BRa (28413)	245

K(InH2L2+H)=6.0, K(InH3L2+H)=4.9, K(InH4L2+H)=1.7, K(InH5L2+H)<1

C4H404 H2L Maleic acid CAS 110-16-7 (111)
cis-Butenedioic acid; HOOC.CH:CH.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	NaNO ₃	25°C	2.00M	U	M		K1=4.30 B2=5.30 B3eff=7.20	1987KSb (29087)	246

Data at pH 5 (all Keff ?)

In+++	ISE	KNO ₃	25°C	0.10M	C			K1=5.05	1984PGa (29088)	247
In+++	vlt	NaClO ₄	25°C	0.20M	U			K1=5.0 B2=7.1 B3=6.2	1967NMa (29089)	248

C4H404 H2L Fumaric acid CAS 110-17-8 (289)
trans-Butenedioic acid; HOOC.CH:CH.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	oth/un	25°C	->0	U			K1=3.04	1951PJb (29204)	249

C4H604 H2L Me-Malonic Acid CAS 516-15-2 (816)

Methylpropanedioic acid; HOOC.CH(CH₃).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaClO ₄	30°C	0.10M	U			K1=6.19 B2=11.28 K3=3.71	1976DGd (30128)	250

C4H604S 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
In+++	gl	NaClO ₄	25°C	0.10M	C	TI		K1=14.95 B2=26.70	1972SMe (30340)	251

Data for I=0.10-0.40 M NaClO₄. At I=0, B2=27.27. Data for 25-45 C.
At 35 C, DH(B2)=-51.1 kJ mol⁻¹, DS(B2)=346 J K⁻¹ mol⁻¹.

C4H605 H2L Malic acid CAS 617-48-1 (393)

2-Hydroxybutane-1,4-dioic acid, Hydroxy-succinic acid; HOOC.CH₂.CH(OH).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaNO ₃	25°C	0.50M	M	M			1989MAa (30648)	252

B(-3,1,1)=-3.63

K(2InH-2L=In2H-4L2)=-10.5

B(p,q,r): pH+qM+rH2L. K(U02+In+2H2L=U02InH-2L2+6H)=-7.45

In+++	gl	oth/un	25°C	?	U				1972MKc (30649)	253
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$K(UO_2+In+2H_2L=UO_2InH-2L2+6H)=-7.62$

In+++ gl NaClO₄ 25°C 0.10M C TI K1=4.60 B2= 8.21 1972SMe (30650) 254
Data for I=0.10-0.40 M NaClO₄. At I=0, B2=8.32. Data for 25-45 °C.
At 35 °C, DH(B2)=43.6 kJ mol⁻¹, DS(B2)=305 J K⁻¹ mol⁻¹.

In+++ EMF KNO₃ 22°C 0.20M U B2=10.62 1971PVa (30651) 255
Also quoted B2=9.77

In+++ dis oth/un 25°C ? U 1970AKa (30652) 256
Keff($InL_2+0.5(UO_2L)_2=InUO_2L_2+L$)=1.48, pH 4.

C4H6O6 H2L DL-Tartaric acid CAS 133-37-9 (94)
DL-Tartaric acid, DL-2,3-Dihydroxybutanedioic acid; HOOC.CH(OH).CH(OH).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++	gl	NaNO ₃	25°C	0.50M	M	M			1989MAa (31025)	257
							B(-4,1,1)=-4.91			
							K(2InH-2L=In2H-4L2)=-11.3			

B(p,q,r): pH+qM+rH₂L. $K(UO_2+In+2H_2L=UO_2InH-4L2+8H)=-7.77$

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
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In+++	gl	NaClO ₄	20°C	0.10M	U				1985SAa (31279)	258
							B(InH-1L)=2.65			
							K(In+H-1L)=17.05			

In+++ ISE KNO₃ 25°C 0.10M C K1=4.5 B2=7.58 1984PGa (31280) 259

In+++ dis NaClO₄ 25°C 1.00M U K1=5.04 B2=9.21 1975KLb (31281) 260
K($In+2HL$)=4.72

Extraction by di-2-ethylhexylphosphoric acid

In+++ gl oth/un 25°C ? U 1972MKc (31282) 261
 $K(UO_2+M+2H_2L=UO_2MH-2L2+6H)=-7.14$

In+++ gl NaClO₄ 25°C 0.10M U K1=4.44 B2=8.46 1972MRc (31283) 262
Values quoted for meso form
K₁(dl)=4.97, K₂(dl)=4.77, B₂(meso-dl)=11.14

In+++ dis oth/un 25°C ? U 1970AKa (31284) 263
K'($ML_2+0.5(UO_2L)_2=MUO_2L_2+L$)=1.49, conditional constant, pH 4

In+++ dis NaClO₄ 20°C 0.10M U K1=4.48 1963STc (31285) 264

C4H7N02S2 H2L CAS 2030-77-5 (4281)

2-Dithiocarbaminopropanoic acid; CH₃.CH(NH.CSSH).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	EMF	NaClO4	25°C	1.00M	U			K1=7.44 B2=14.19 B3=19.87	1972RBb (31477)	265

C4H7NO4 H2L Aspartic acid CAS 56-84-8 (21)
Aminobutanedioic acid: $\text{H}_2\text{N}-\text{CH}(\text{CH}_2-\text{COOH})_2-\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	ISE	KNO ₃	25°C	0.10M	C			K1=9.56 K(TnL 2+H)-4.75	1984PGa (31872)	266

In+++ g1 NaClO4 25°C 0.10M C TI K1=3.26 B2= 6.10 1972SMe (31873) 267
 Data for I=0.10-0.40 M NaClO4. At I=0, B2=6.17. Data for 25-45 °C.
 At 35 °C DH(B2)=41.8 kJ mol⁻¹ DS(B2)=258.1 J K⁻¹ mol⁻¹

C4H7NO4 H2L IDA CAS 142-73-4 (118)
Iminodiethanoic acid; $\text{HN}(\text{CH}_2\text{COOH})_2$

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

In+++ sb oth/un 25°C 0..10M U K1=10..14 1997YSa (32281) 268

In+++ g1 NaClO₄ 25°C 1.00M U K1=10.2 B2=20.3 1985MMa (32282) 269
B3=29.0
B(InHL)=12.6
B(In2L)=14.0

In+++ gl NaClO₄ 20°C 0.10M U K1=10.20 1985Aa (32283) 270

In+++ ISE KN03 25°C 0.10M C M K1=10.14 B2=19.67 1984PGa (32284) 271
 Ternary complexes In(III)-IDA-acetate and In(III)-IDA-maleic acid also reported

In+++ g1 KC1 25°C 0.30M U K1=9.54 B2=18.41 1966MAb (32285) 272

C4H11NS HL CAS 108-02-1 (1792)
1-Mercapto-2-(N,N-dimethyl)aminoethane; HS.CH2.CH2.N(CH₃)₂

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

In+++ vlt KCl 26°C 0.25M U K1=0.28 B2=1.73 1972PMb (35137) 273

C4H13N06P2S H5L CAS 78014-43-4 (2649)
2-Mercaptoethylamine-N,N-bis(methylphosphonic acid); HS.CH2.CH2.N(CH2.PO3H2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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 In+++ dis NaClO₄ 20°C 1.00M U 1983KDd (35611) 274
 K(In+H₃L)=9.6
 ****=
 C4H₁₃N₀9P₂S H5L CAS 58480-01-6 (2650)
 2-Sulfoethylamine-N,N-di(methylphosphonic acid); HS03.CH₂.CH₂.N(CH₂.PO₃H₂)₂

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

 In+++ dis NaClO₄ 20°C 1.00M U 1983KDd (35621) 275
 K(In+H₃L)=11.0
 ****=
 C4H₁₄N₂06P₂ 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

 In+++ dis NaClO₄ 20°C 1.00M U 1983KDd (35883) 276
 K(In+H₂L)=12.7
 ****=
 C5H₅NOS L CAS 23003-22-7 (2904)
 3-Hydroxy-2-mercaptopypyridine; C₅H₃N(OH)(SH)

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

 In+++ vlt KCl 25°C 0.10M U K1=5.4 B2=7.41 1977SPc (36727) 277
 ****=
 C5H₅NO₂ HL CAS 13161-30-3 (5582)
 1-Hydroxypyridin-2(1H)-one, 2-Hydroxypyridine 1-oxide;

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

 In+++ gl KCl 25°C 0.10M U K1=8.09 B2=13.97 1993LMc (36756) 278
 K3=4.53
 ****=
 C5H₅NO₂ HL CAS 16867-04-2 (2316)
 2,3-Dihydroxypyridine, 3-Hydroxypyridin-2(1H)-one; C₅H₃N(OH)₂

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

 In+++ vlt KCl 25°C 0.10M U K1=5.56 B2=8.00 1977SPc (36790) 279
 ****=
 C5H₅NO₃ H2L CAS 99110-85-7 (2195)
 1,4-Dihydroxy-2-pyridinone;

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

 In+++ gl KCl 25°C 0.10M C B2=17.22 1992CMc (36846) 280
 B3=22.29
 B(InHL)=15.26

$$B(\text{InHL}2)=24.45$$

$$B(\text{InH2L}2)=29.89$$

$B(\text{InHL}3)=29.20$

C5H6N2O L CAS 16867-03-1 (2903)

2-Amino-3-hydroxypyridine; C5H3N(OH)(NH2)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	KCl	25°C	0.10M	U			K1=4.83 B2=7.71	1977SPc (37192)	281

C5H8O2 HL Acetylacetone CAS 123-54-6 (164)
Pentane-2,4-dione; CH3.CO.CH2.CO.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	oth	NaClO4	25°C	0.50M	C	I	T	K1=8.20	1983TUa (37995)	282

IUPAC evaluation

In+++	oth	NaClO4	25°C	0.10M	C	I	T	K1=7.8 B2=14.4 B3=18.5	1982SLc (37996)	283
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IUPAC evaluation. I=0 corr.: K1=8.0, B2=15.1

In+++	vlt	NaClO4	25°C	0.50M	U			K1=8.8 B2=16.20 K3=6.0	1966CBb (37997)	284
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In+++	dis	oth/un	?	0.10M	U			K1=8.08 B2=14.3 B3=18.6	1960STb (37998)	285
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In+++	gl	oth/un	30°C	0.0	U			K1=8.0 B2=15.1	1955IFa (37999)	286
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C5H9N02 HL Proline CAS 147-85-3 (44)
Pyrrolidine-2-carboxylic acid; C4H8N.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	NaClO4	30°C	0.10M	U	M		K1=7.99 B2=17.00 B(InL(His))=18.14	1983JKb (38623)	287

In+++	vlt	KNO3	30°C	0.50M	U			K1=8.30 B2=14.38 B3=20.94	1980PKc (38624)	288
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Method: polarography.

C5H9N03S2 H3L (2159)
2,3-Dimercaptopropanoyl-glycine; HS.CH2.CH(SH).CO.NH.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KNO3	20°C	0.10M	U			K1=17.249 B2=31.46 B(InHL)=19.722	1978KSc (38823)	289

$$B(\text{InHL2})=35.571$$

C5H10N203 HL Glutamine CAS 56-85-9 (18)
 2-Aminopentanedioic acid 5-amide; H2N.CH(CH2.CH2.CO.NH2)COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	NaClO4	30°C	0.10M	U	M	K1=6.65	B2=14.39	1983JKb (39820)	290
								B(InL(His))=16.37		

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	NaClO4	30°C	0.10M	C	M	K1=6.65	B2=14.39	1980JKa (39821)	291

Method: polarography. HA is L-methionine

C5H10OS2 HL CAS 110-50-9 (591)
 (Butoxy)dithiomethanoic acid; CH3.CH2.CH2.CH20.CSSH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	dis	oth/un	25°C	0.25M	U				1982SAa (40161)	292

$$B3=11.1$$

C5H11N02S H2L Penicillamine CAS 52-66-4 (350)
 DL-2-Amino-3-mercaptopropanoic acid; (CH3)2C(SH)CH(NH2)COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KN03	21°C	0.10M	M		K1=15.330	B2=29.79	1976KSe (41272)	293

$$\begin{aligned} B(\text{InHL}) &= 18.858 \\ B(\text{InHL2}) &= 33.391 \\ B(\text{InH-1L}) &= 11.25 \end{aligned}$$

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
In+++	EMF	non-aq	25°C	100%	U				1987USA (41355)	294

$$B3=28.5$$

Medium: DMF, 0.1 M LiClO4

C5H12N202 HL Ornithine CAS 1069-31-4 (46)
 2,5-Diaminopentanoic acid; H2N.CH2.CH2.CH2.CH(NH2)COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	NaClO4	30°C	0.10M	C T H		K1=1.78	B2= 3.34	1981SBf (41577)	295

$$B3=5.20$$

Method: polarography. At 40 C K1=1.30, B2=3.38, B3=5.07.

DH(K1)=-85.9 kJ mol-1, DH(B2)=6.82, DH(B3)=-22.9.

C5H1203S4 H3L CAS 19872-38-9 (4331)
2,3-Dimercaptopropylthioethanesulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	dis	oth/un	?	?	U				1971EPd (41656)	296

B(In2L3)=54.6

C5H1204S3 H3L CAS 19872-36-7 (4332)
2,3-Dimercaptopropanoxyethanesulfonic acid; HS.CH2.CH(SH).CH2.O.CH2.CH2.HS03

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	dis	oth/un	?	?	U				1971EPd (41670)	297

B(In2L3)=56.2

C5H1205S4 H3L CAS 35617-14-2 (4333)
2,3-Dimercaptopropanesulfonethanesulfonic acid; HS.CH2.CH(SH).CH2.SO2.CH2CH2.HS03

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	dis	oth/un	?	?	U				1971EPd (41701)	298

B(In2L3)=55.3

C6H5N02 HL Picolinic acid CAS 98-98-6 (391)
2-Pyridine-carboxylic acid; C5H4N.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	ISE	KNO3	25°C	0.10M	C			K1=5.81 B2=11.56 K3=15.77 *K(InL)=-3.7	1984PGa (42552)	299

In+++ gl diox/w 25°C 50% U T H K1=5.56 B2=10.70 K3=3.82

DH(K1)=-18.8 kJ mol-1, DH(K2)=-20.5, DH(K3)=-15.7

C6H6O3 HL Isomaltol CAS 3420-59-5 (5885)
1-(3-Hydroxy-2-furanyl)ethanone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaCl	25°C	0.15M	C			K1=7.08 B2=11.14 K3=3.66	1989LCa (44034)	301

C6H6O8S2 H4L Tiron CAS 149-45-1 (104)
4,5-Dihydroxybenzene-1,3-disulfonic acid; (HO)2.C6H2(SO3H)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++ gl NaClO₄ 25°C 0.20M U K1=17.25 B2=31.90 1984KJa (44462) 302
By spectrophotometry K1=17.30, K2=14.56, K3=11.75

In+++ gl NaClO₄ 25°C 0.10M U K1=16.34 1972GKc (44463) 303

In+++ gl NaNO₃ 25°C 0.20M U K1=17.00 B2=30.85 1968ASa (44464) 304

In+++ sp oth/un 29°C 0.20M U TIH K1=3.71 1965NDa (44465) 305
K1=4.45(I=0), 3.91(I=0.05), 3.79(I=0.1). At I=0.1 M: K1=3.75(20 C), 3.84(45C)
DH(K1)=5.9 kJ mol⁻¹, DS=92.8 J K⁻¹ mol⁻¹

C6H7N L Picoline CAS 109-06-8 (320)

2-Methylpyridine; C5H4N.CH₃

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++	vlt	NaNO ₃	25°C	2.00M	U	M			1987KSb (44610)	306
							B3eff=10.56			
							B(InLA)=7.91			
							B(InLA2)=8.43			
							B(InL2A)=9.93			

B(InLB)=8.05; B(InLB2)=8.97; B(InL2B)=10.23. HA=formic acid, H₂B=malonic acid
Data at pH 5 (all Keff ?)

C6H7N L beta-Picoline CAS 108-99-6 (324)

3-Methylpyridine; C5H4N.CH₃

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++	vlt	NaNO ₃	25°C	2.00M	U	M			1987KSb (44700)	307
							B3eff=10.36			
							B(InLA)=6.40			
							B(InLA2)=7.40			
							B(InL2A)=9.38			

B(InLB)=7.85; B(InL2B)=9.83; B(InLB2)=8.82. HA=formic acid, H₂B=malonic acid
Data at pH 5 (all Keff ?)

C6H7N L gamma-Picoline CAS 108-89-4 (325)

4-Methylpyridine; C5H4N.CH₃

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++	vlt	NaNO ₃	25°C	2.00M	U	M	K1=5.30	B2=7.90	1987KSb (44826)	308
							B3eff=9.78			
							B4eff=11.85			
							B5=14.02			

B(InLA)=6.34; B(InL2A)=9.64; B(InLA2)=8.49. H₂A=maleic acid. Data at pH 5

C6H7N₂ HL CAS 19365-01-6 (6771)

1-Methyl-3-hydroxy-2-pyridinone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K	values	Reference	ExptNo
In+++	gl	KCl	25°C	0.10M	C			K1=9.35	B2=17.35	1992CMc	(45029) 309
								B3=24.44			

C6H7NO2 HI CAS 17184-19-9 (5888)

3-Hydroxy-2-methylpyridin-4(1H)-one:

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

C6H8N2 | 2-Picolyamine CAS 29722-36-9 (502)

2-(Aminomethyl)pyridine: C₅H₄N·CH₂NH₂

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

In+++ 81 NaNO₃ 25°C 0-10M II K1=7.6 1991DMb (45352) 311

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

2-Hydroxypropane-1,2,3-tricarboxylic acid; HOOCH₂.CH(OH)(COOH).CH₂COOH

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

In+++ g/l NaNO₃ 25°C 0.50M M M 1989MAa (46139) 312

K(2TpH-11)=Tp2H-212)= -11 72

$$K(UO_2 + Tn + 2H_3^+ \rightarrow TnUO_2H - 2I_2 + 8H) = -11.30$$

(RECEIVED IN U.S. MAIL BY AIR MAIL)

Int+ gl NaClO₄ 20°C 0.10M U 19

$$K(I_{n+H-1L})=21.02$$

$$K(\text{In} + \text{UO}_2 + 2\text{H}_3\text{L} \rightleftharpoons \text{UO}_2\text{InH} - 2\text{L} + 8\text{H}) = -11.58$$

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Keff(InL2+0.5(UO2L)2=InUO2L2+L)=2.86

In+++ ix NaClO4 ? 0.50M U K1=6.18 1962RMa (46143) 316

C6H9N06 H3L NTA

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Metal Mtd Medium Temp conc Cat Flags Eg K Values Reference ExptNo

1n+++ g1 KNO3 25°C 0.10M C K1=13.81 B2=23.70 1994HCa (46863) 31

B(InHL2)=26.57

In+++	EMF	NaClO4	20°C	0.10M	U	T	K1=16.9	1967BAc (46864) 318
In+++	sp	oth/un	21°C	?	U		K1=15.88	1965ZAa (46865) 319
In+++	ix	oth/un	?	0.50M	U		K1=14.88	1963RMb (46866) 320
In+++	dis	NaClO4	20°C	0.10M	U		B2=24.4	1963STc (46867) 321

C6H9N3O2	HL	Histidine	CAS	71-00-1	(1)		
2-Amino-3-(4'-imidazolyl)propanoic acid; H2N.CH(CH2.C3H3N2)COOH							
Metal	Mtd	Medium	Temp	Conc	Cal Flags	Lg K values	Reference ExptNo
In+++	vlt	NaClO4	30°C	0.10M	U M	K1=10.05 B2=17.96 B(InL(Gln))=16.37 B(InL(Pro))=18.14	1983JKb (47570) 322

C6H1004S	H2L		CAS	111-17-1	(139)		
3,3'-Thiodipropanoic acid; HOOC.CH2.CH2.S.CH2.CH2.COOH							
Metal	Mtd	Medium	Temp	Conc	Cal Flags	Lg K values	Reference ExptNo
In+++	vlt	alc/w	30°C	30%	U I	K1=1.64 B2=2.32 B3=2.63 B4=3.53	1972RGc (48183) 323

Medium: 0-50% MeOH, 1.2 M KC1. K1(0%)=1.30, K1(50%)=2.08, B2(0%)=1.90,

B2(50%)=2.48, B3(0%)=2.38, B3(50%)=3.08, B4(0%)=3.42, B4(50%)=4.25

C6H11N03S2	H2L		(2160)				
2-Mercaptopropanoyl-cysteine; CH3.CH(SH).CO.NH.CH(CH2.SH).COOH							
Metal	Mtd	Medium	Temp	Conc	Cal Flags	Lg K values	Reference ExptNo
In+++	gl	KN03	20°C	0.10M	U	K1=16.454 B2=29.26 B(InHL)=19.444 B(InHL2)=33.814	1978KSc (48563) 324

C6H11N05	H2L	HIMDA	CAS	93-62-9	(192)		
N-(2-Hydroxyethyl)iminodiethanoic acid; HO.CH2.CH2.N(CH2.COOH)2							
Metal	Mtd	Medium	Temp	Conc	Cal Flags	Lg K values	Reference ExptNo
In+++	gl	KN03	35°C	0.10M	U	K1=11.61	1980KHb (48747) 325

In+++	sp	oth/un	20°C	?	U		1972KVa (48748) 326
						K(In+H2L)=4.90 K(In+HL)=12.46	

In+++ ix oth/un ? 0.50M U K1=11.0 1963RMB (48749) 327

C6H12N204 H2L CAS 4726-83-4 (5911)
N,N-Dihydroxyhexanediamide; HN(OH).CO.(CH₂)₄.CO.NH(OH)

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

In+++ gl NaNO₃ 25°C 0.10M C K1=14.86 1989EHa (49334) 328

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

In+++ gl NaNO₃ 25°C 0.10M C 1995EOa (49726) 329
B(InH-3L)=-9.21

In+++ vlt NaClO₄ 30°C 1.0M C K1=5.30 B2= 6.30 1978PBb (49727) 330
B3=7.48
B4=7.60
B5=9.32

Method: polarography. Medium pH 6.5.

In+++ vlt NaClO₄ 25°C 0.20M U K1=2.75 B2=4.67 1973KMc (49728) 331

C6H13N04 HL Bicine CAS 150-25-4 (2124)
N,N-Bis(2-hydroxyethyl)glycine; (HO.CH₂.CH₂)₂N.CH₂.COOH

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

In+++ gl NaNO₃ 25°C 0.10M U K1=7.06 1991DMb (50374) 332
K(InL+OH)=10.40
K(InH-1L+OH=InH-2L)=9.82

C6H20N2012P4 H8L EDTPA CAS 1429-50-1 (434)
Ethane-1,2-bis(iminobis(methylenephosphonic acid)); ((H₂O₃PCH₂)₂NCH₂.)₂

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

In+++ dis NaClO₄ 20°C 1.00M U 1983KDd (52344) 333
K(InH5L)=13.2

C7H5N04 H2L Quinolinic acid CAS 89-00-9 (567)
2,3-Pyridinedicarboxylic acid; C₅H₃N.(COOH)₂

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

In+++ vlt NaClO₄ 30°C 1.5M C K1=6.48 B2= 7.60 1980BPb (52628) 334
B3=8.52
B4=9.00

Method: polarography.

C7H5N04 H2L Dipicolinic aci CAS 449-83-2 (418)

2,6-Pyridinedicarboxylic acid; C5H3N.(COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	NaClO4	25°C	0.5M	C	T		K1=11.7 B3=20.3 B4=21.8	1983PBa	(52782) 335

Method: polarography. Also data for 15°C and 10% MeOH/H2O.

In+++	gl	diox/w	25°C	50%	U	T	H	K1=5.82 DH(K1)=-15.7 kJ mol-1, DH(K2)=-17.1	B2=11.03	1977SMc (52783) 336
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C7H5N05 H2L Nitrosalicylic CAS 96-97-9 (148)

2-Hydroxy-5-nitrobenzoic acid; HO.C6H3(NO2).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	oth	oth/un	?	?	U			K1=7.5 K3=5.86	1971Khb	(53051) 337

C7H602 HL Tropolone CAS 533-75-5 (3129)

2-Hydroxycyclohepta-2,4,6-trien-1-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++	dis	non-aq	25°C	100%	C				2001NCa (53677) 338	
								K(InL3+TOPO)=0.97 K(InL3+2TOPO)=1.86		

TOPO is trioctylphosphane oxide. Medium: CC14.

C7H602S H2L Thiosalicylic CAS 147-93-3 (236)

2-Mercaptobenzoic acid; HS.C6H4.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++	gl	alc/w	25°C	50%	M			K1=12.03 *****	B2=21.56	1984Tza (53910) 339
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C7H603 H2L Salicylic acid CAS 69-72-7 (14)

2-Hydroxybenzoic acid, Salicylic acid; HO.C6H4.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++	gl	NaClO4	20°C	0.10M	U			K1=14.28	1985SAa (54238) 340	
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In+++	oth	alc/w	30°C	75%	U			K1=2.59	1973SMb (54239) 341	
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Medium: 75% EtOH, 0.2 M NaClO4

C7H6O6S	H3L	CAS 5965-83-3 (399)
5-Sulfosalicylic acid, 2-Hydroxy-5-sulfobenzoic; H03S.C6H3(OH).COOH		
<hr/>		
<hr/>		
Metal	Mtd Medium Temp Conc Cal Flags Lg K values	Reference ExptNo
In+++	gl NaCl04 20°C 0.10M U	K1=11.45 1985SAa (55016) 342
<hr/>		
C7H7N02	HL Anthranilic	CAS 118-92-3 (1589)
2-Aminobenzoic acid, Anthranilic acid; H2N.C6H4.COOH		
<hr/>		
Metal	Mtd Medium Temp Conc Cal Flags Lg K values	Reference ExptNo
In+++	oth alc/w 30°C 75% U	K1=11.10 B2=20.00 1973SMb (55232) 343
Medium: 75% EtOH, 0.2 M NaCl04		
<hr/>		
C7H9N02	HL	CAS 30652-11-0 (2458)
3-Hydroxy-1,2-dimethylpyridin-4(1H)-one; (OH)(CH3)(O:)C5H2N.CH3		
<hr/>		
Metal	Mtd Medium Temp Conc Cal Flags Lg K values	Reference ExptNo
In+++	gl KCl 25°C 0.10M C	K1=11.85 B2=22.48 1994MRa (56440) 344 K3=9.23
<hr/>		
In+++	gl KCl 25°C 0.10M C	K1=11.85 B2=22.48 1992CMb (56441) 345 K3=9.23
<hr/>		
In+++	gl NaCl 25°C 0.15M M	K1=13.60 B2=23.93 1990CLa (56442) 346 B3=32.93
<hr/>		
C7H1204	H2L	CAS 534-59-8 (480)
Butylpropanedioic acid (Butylmalonic acid); H00C.CH(C4H9).COOH		
<hr/>		
Metal	Mtd Medium Temp Conc Cal Flags Lg K values	Reference ExptNo
In+++	gl NaCl04 30°C 0.10M U	K1=5.86 B2=10.24 1976DGd (57339) 347 K3=3.14
<hr/>		
C7H1206	HL Quinic acid	CAS 77-95-2 (2578)
1,3,4,5-Tetrahydroxycyclohexane-1-carboxylic acid;		
<hr/>		
Metal	Mtd Medium Temp Conc Cal Flags Lg K values	Reference ExptNo
In+++	ix NaCl04 25°C 0.50M U	K1=2.56 B2=5.39 1970TOa (57403) 348
<hr/>		
C8H5N5O6	H3L Murexide	(453)
Purpuric acid (Murexide is ammonium salt);		
<hr/>		
Metal	Mtd Medium Temp Conc Cal Flags Lg K values	Reference ExptNo
In+++	kin NaCl04 25°C 2.0M U T	K1=3.84 1975KId (58510) 349

K(InL+H)=-0.89

In+++ kin NaClO4 10°C 2.0M U T K1=3.79 1975KId (58511) 350

In+++ sp KN03 12°C 0.10M U 1965GEa (58512) 351

K(In+H2L)=4.61

C8H502F3S HL TTA CAS 326-91-0 (165)
4,4,4-Trifluoro-1-(2-thienyl)butane-1,3-dione; F3C.CO.CH2.CO.C4H3S

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

In+++ gl mixed 25°C 46% U K1=5.97 B2=11.73 1972BTb (58632) 352
Medium: 0.1 (C2H5)4NC1O4, 46% acetone

In+++ dis NaClO4 25°C 0.10M U K1=6.0 B2=12.0 1968SAb (58633) 353
B3=17.6
B(LuL(OH))=16.8
B(LuL(OH)2)=26.0
B(LuL2(OH))=22.3

C8H503F3 HL CAS 15788-03-1 (3215)
1,1,1-Trifluoro-3-2'-furoylacetone; F3C.CO.CH2.CO.C4H3O

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

In+++ gl mixed 25°C 46% U K1=5.93 B2=11.38 1972BTb (58715) 354
Medium: 46% acetone, 0.1 M Et4NC1O4

C8H802 HL Phenylacetic CAS 103-82-2 (1361)
Phenylethanoic acid; C6H5.CH2.COOH

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

In+++ vlt none 25°C 0.0 U 1957CRa (59551) 355
B3=10.2

C8H803 HL Mandelic Acid CAS 611-72-3 (80)
2-Phenyl-2-hydroxyethanoic acid; C6H5.CH(OH).COOH

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

In+++ ix NaClO4 25°C 0.50M U K1=2.58 B2=5.40 1970TOa (59842) 356

C8H804 HL CAS 520-45-6 (4478)
3-Acetyl-2-hydroxy-6-methylpyran-4-one, Dehydroethanoic acid;

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

In+++ gl diox/w 35°C 50% U K1=5.00 B2=9.08 1971MAa (60091) 357

Medium: 50% dioxan, 0.1 M NaClO4

C8H9NO4

H2L

(4520)

Dehydroethanoic acid oxime;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	diox/w	35°C	50%	U				1971MAa (60497)	358
								K(In+HL)=4.43		
								K(In+2HL)=8.07		

Medium: 50% dioxan, 0.01 M NaClO4

C8H11N02

HL

CAS 30652-12-1 (5889)

3-Hydroxy-2-methyl-1-ethylpyridin-4-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaCl	25°C	0.15M	M			K1=13.53 B2=23.78	1990CLA (61093)	359

B3=32.80

C8H1102F3

HL

CAS 81944-89-0 (4535)

1,1,1-Trifluoro-4-(isobutyl)-2,4-butanedione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	mixed	25°C	46%	U			K1=6.78 B2=13.18	1972BTb (61293)	360

Medium: 46% acetone, 0.1 M Et4NC1O4

C8H1102F3

HL

CAS 22767-90-4 (1249)

1,1,1-Trifluoro-5,5-dimethyl-2,4-hexanedione; F3C.CO.CH2.CO.CH(CH3)3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	mixed	25°C	46%	U			K1=6.85 B2=13.41	1972BTb (61302)	361

Medium: 46% acetone, 0.1 M Et4NC1O4

C8H12N208

H4L

CAS 35039-85-1 (4537)

1,2-Diaminoethane-N,N'-dimalonic acid; (HOOC)2.CH.NH.CH2.CH2.NH.CH(COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	KNO3	25°C	0.10M	U			K1=23.12	1973GKc (61510)	362

K(In+HL)=16.75

C8H1404S2

H2L

CAS 54825-18-2 (4543)

Ethylenebis(3-mercaptopropionate)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	oth/un	30°C	0.10M	U T				1972SCe (62108)	363

				KIn+H2L)=0.60		
				K(In+2H2L)=2.11		
				K(In+3H2L)=3.93		
40 C:	K(In+H2L)=0.30,	K(In+2H2L)=2.00,	K(In+3H2L)=3.93			

C8H16N204	H2L			CAS 38937-66-5 (5912)		
N,N-Dihydroxyoctanediamide; HN(OH).CO.(CH ₂) ₆ .CO.NH(OH)						

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

In+++	gl	NaNO ₃	25°C	0.10M	C K1=15.32	1989EHa (62540) 364

C8H16N204S2	H4L				(6947)	
2,7-Dicarboxy-3,6-diaza-1,8-octanedithiol; HS.CH ₂ .CH(COOH)NH.CH ₂ CH ₂ .NH.CH(COOH)CH ₂ .SH						

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

In+++	gl	KCl	25°C	0.10M	C K1=33.0 B(InHL)=35.76 B(In(OH)L)=22.85 B(In(OH)2L)=11.01	1996LMa (62549) 365

C8H24N2012P4S	H8L				CAS 33424-58-7 (2648)	
1,7-Diaza-4-thiaheptane-1,1,7,7-tetra(methylphosphonic acid); S(CH ₂ .CH ₂ .N(CH ₂ .PO ₃ H ₂) ₂) ₂						

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

In+++	dis	NaClO ₄	20°C	1.00M	U K(In+H5L)=13.0	1983KDd (63486) 366

C8H24N2013P4	H8L				CAS 25007-19-4 (2647)	
1,7-Diaza-4-oxaheptane-1,1,7,7-tetra(methylphosphonic acid); O(CH ₂ .CH ₂ .N(CH ₂ .PO ₃ H ₂) ₂) ₂						

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

In+++	dis	NaClO ₄	20°C	1.00M	U K(In+H5L)=12.2	1983KDd (63494) 367

C9H6N04IS	H2L	Ferron			CAS 547-91-1 (275)	
7-Iodo-8-hydroxyquinoline-5-sulfonic acid; (HO)(HO ₃ S)C ₉ H ₄ NI						

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

In+++	sp	NaClO ₄	25°C	0.20M	U K(In+HL=InHL)=2.84 K(In+HL=InL+H)=2.37	1982PSb (63809) 368

In+++ gl diox/w 25°C 50% U T H K1=8.27 B2=16.12 1977SMc (63810) 369
K3=6.85
DH(K1)=-2.8 kJ mol-1, DH(K2)=-13.3, DH(K3)=-13.3

In+++ sp oth/un ? dil U B2=16.57 1971BRf (63811) 370

C9H7NO HL Oxine CAS 148-24-3 (504)
8-Hydroxyquinoline (8-quinolinol);

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

In+++ gl NaClO4 20°C 0.10M U K1=11.22 1985SAa (64286) 371

In+++ oth NaClO4 25°C 0.10M C I R K1=12.00 B2=23.95 1983TUa (64287) 372
K3=11.45

IUPAC evaluation

In+++ gl diox/w 25°C 50% U K1=13.30 B2=25.46 1978THc (64288) 373
B3=36.43

In+++ gl diox/w 25°C 50% U T H K1=12.66 B2=24.83 1977SMc (64289) 374
K3=10.26

DH(K1)=-20.5 kJ mol-1, DH(K2)=-23.8, DH(K3)=-32

In+++ sp alc/w ? 20% U 1971BRf (64290) 375
B3=30.72

In+++ dis NaClO4 25°C 0.10M U K1=12 B2=23.9 1968SAb (64291) 376
B3=35.3

In+++ oth none ? 0.0 U 1957PKa (64292) 377
Kso=-31.34

C9H7N03S2 H2L CAS 58447-10-2 (4675)
8-Mercaptoquinoline-5-sulfonic acid;

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

In+++ sp oth/un ? ? U K1=11.6 B2=22.70 1968ABA (64425) 378
K3=7.2

C9H7N04S H2L Sulfoxine CAS 84-88-8 (448)
8-Hydroxyquinoline-5-sulfonic acid;

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

In+++ sp NaClO4 25°C 0.20M C K1=6.53 2001RSA (64552) 379
K(In+HL)=3.61
K(InL+H)=1.4
Kout(In+H2L)=-0.52

Kout(In+HL)=0.57

Method: absorption and fluorescence spectra.

In+++ gl diox/w 25°C 50% U T H K1=9.80 B2=19.40 1977SMc (64553) 380
K3=7.82

DH(K1)=-15.0 kJ mol-1, DH(K2)=-18.8, DH(K3)=-22.1

In+++ sp oth/un ? ? U K1=10.9 B2=19.00 1973B1b (64554) 381

C9H7N3O2S H2L TAR CAS 2246-46-0 (707)

4-(2'-Thiazolylazo)-resorcinol; C3H2NS.N:N.C6H3(OH)2

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

In+++ sp NaClO4 ? 0.10M U 1969HSd (64709) 382
K(In+HL)=10.06

In+++ gl alc/w 25°C 50% U 1967NPb (64710) 383
K(In+HL)=10.8

Medium: 50% MeOH, 0.1 M NaClO4

C9H8O4 HL Acetylsalicylic CAS 50-78-2 (1240)
2-Acetoxybenzoic acid, Acetylsalicylic acid; CH3.CO.O.C6H4.COOH

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

In+++ vlt NaClO4 30°C 1.0M U K1=4.48 B2=4.70 1968GJa (64897) 384
B3=6.48
B4=6.81
B5=8.13

C9H8O4 H2L CAS 2613-89-0 (1145)
Phenylmalonic acid; HOOC.CH(C6H5).COOH

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

In+++ gl NaClO4 30°C 0.10M U K1=6.09 B2=11.42 1976DGd (64995) 385

C9H11N06S H3L CAS 73487-23-7 (5467)
N,N-Dimethyl-2,3-dihydroxy-5-sulfonatobenzamide; HS03.C6H2(OH)2.CONMe2

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

In+++ gl KNO3 25°C 0.10M U K1=15 B2=28 1982PWa (66464) 386
B3=37

C9H13N02 L (7151)
1,2-Diethyl-3-hydroxy-4-pyridinone

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

In+++ gl KCl 25°C 0.10M C K1=12.04 B2=23.04 1994MRa (66797) 387
K3=9.4

C9H14N209 H4L CAS 56360-11-3 (2576)
2-Hydroxy-1,3-diaminopropane-N,N'-di(1,3-propanedioic acid)

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

In+++ vlt KN03 25°C 0.1M U K1=24.24 1976GDc (67137) 388
K(In+HL)=17.15

C9H18N204 H2L CAS 18992-11-5 (5913)
N,N-Dihydroxynonanediamide; HN(OH).CO.(CH2)7.CO.NH(OH)

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

In+++ gl NaNO3 25°C 0.10M C K1=15.93 1989EHa (67940) 389

C9H19NS2 HL CAS 150-11-8 (1154)
N,N-Di(n-butyl)dithiocarbamate; (C4H9)2N.CSSH

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

In+++ EMF non-aq 25°C 100% U 1987USa (67990) 390
B3=29.7

Medium: DMF, 0.1 M LiClO4

C10H7N304S H3L CAS 63129-59-9 (4762)
4-(2,4'-Carboxythiazolylazo)-1,3-dihydroxybenzene;

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

In+++ sp oth/un ? 0.10M U K1=4.36 B2=10.77 1971DGd (69087) 391

C10H702F3 HL CAS 326-06-7 (196)
3-Benzoyl-1,1,1-trifluoroacetone; CF3.CO.CH2.CO.C6H5

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

In+++ gl mixed 25°C 46% U K1=5.85 B2=11.80 1972BTb (69152) 392
Medium: 46% acetone, 0.1 M EtNC1O4

C10H8N2 L 2,2'-Bipyridyl CAS 366-18-7 (25)
2,2'-Bipyridine; (C5H4N)2

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

In+++ vlt KCl 26°C 1.0M C K1=3.11 B2= 4.30 1987LPb (69589) 393
B3=5.54

Method: polarography. Medium pH 4.5.

In+++ ISE oth/un 25°C 1.0M U K1=4.75 B2=8.0 1972KMF (69590) 394

In+++ dis NaNO₃ 25°C 1.0M U K1=3.45 B2=8.06 1971KMg (69591) 395

C10H8O8S2 H4L Chromotropic ac CAS 148-25-4 (1875)

1,8-Dihydroxynaphthalene-3,6-disulfonic acid;

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

In+++ gl NaNO₃ 25°C 0.10M U K1=16.04 1990HWa (69956) 396

C10H9NO HL 8-OH-Quinaldine CAS 826-81-3 (998)

2-Methyl-8-hydroxyquinoline;

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

In+++ gl diox/w 25°C 50% U T H K1=12.30 B2=22.81 1977SMc (70048) 397
K3=8.86

DH(K1)=-15.5 kJ mol⁻¹, DH(K2)=-20.5, DH(K3)=-22.1

In+++ sp alc/w ? 100% U K1=12.2 B2=23.9 19630Ha (70049) 398
B3=35

Medium: EtOH

C10H9NO HL CAS 5541-67-3 (999)

5-Methyl-8-hydroxyquinoline;

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

In+++ gl diox/w 25°C 50% U B2=25.97 1978THc (70066) 399
B(InH₂L₂)=32.00
B(In(OH)L₂)=20.74

C10H9N03S2 HL (7206)

6-Methyl-5-sulfo-8-mercaptopquinoline;

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

In+++ sp oth/un 20°C 0.10M U K1=11.3 B2=22.40 1985DAb (70177) 400
K3=7.10

C10H1002 HL Benzoylacetone CAS 93-91-4 (197)

1-Phenylbutane-1,3-dione; C₆H₅.CO.CH₂.CO.CH₃

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

In+++ dis oth/un ? 0.10M U K1=8.4 B2=15.5 1960STb (70737) 401
B3=20.8

C10H12N204			HL	(6004)											
N-Benzylloxycarbonylglucyl hydroxamic acid; C6H5.CH2.O.CO.NH.CH2.CO.NHOH															

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo						
In+++	gl	KNO ₃	25°C	0.10M	U		K1=7.2 B2=15.2	1987CSb (71302)	402						

C10H16N208			H4L	EDDS			CAS 52759-67-8 (1100)								
1,2-Diaminoethane-N,N'-di-1,4-butanedioic acid; (CH ₂ .NH.CH(COOH)CH ₂ .COOH) ₂															

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo						
In+++	vlt	KNO ₃	25°C	0.10M	U		K1=22.70	1973GKd (73146)	403						
K(In+HL)=16.54															

C10H16N208			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						
In+++	EMF	KNO ₃	25°C	0.10M	C		K1=25.09	1997DFa (73876)	404						
K(InL+H)=1.90															
K[In(OH)2L+]=10.80															
K(In(OH)L+H)=8.36															

In+++	gl	KNO ₃	25°C	0.50M	C	M		1989TBa (73877)	405						
K(InL+H)=0.66															
*K(InL)=-8.22															
K(InL+F)=0.9															
K(InL+S)=9.4															

In+++	gl	KNO ₃	25°C	0.50M	C	M		1986TBa (73878)	406						
K(InL+H)=0.66															
*K(InL)=-8.22															
K(InL+F)=0.9															
K(In(OH)L+HS=InLS)=9.4															

In+++	gl	NaClO ₄	20°C	0.10M	U		K1=20.71	1985SAa (73879)	407						

In+++	gl	KNO ₃	35°C	0.10M	U		K1=25.00	1980KHb (73880)	408						

In+++	EMF	NaClO ₄	20°C	0.10M	U	T	K1=25.3 K(InL+H)=1.5 K(InL+OH)=5.33	1967BAc (73881)	409						

In+++	sp	NaClO ₄	25°C	1.0M	U	T		1965BRC (73882)	410						
K(In+HL)=15.0															

In+++	sp	oth/un	21°C	?	U		K1=25.62	1965ZAa (73883)	411						

In+++	vlt	KNO ₃	20°C	0.10M	U	T	K1=24.95	1964PCa (73884) 412
In+++	ix	oth/un	?	0.50M	U		K1=23.06	1963RMb (73885) 413
In+++	dis	NaClO ₄	20°C	0.10M	U			1963STc (73886) 414
						B(InL(OH))=32.0		
In+++	cal	KNO ₃	20°C	0.10M	U	H		1958SRa (73887) 415
			DH(K1)=-30.2 kJ mol ⁻¹ , DS=374 J K ⁻¹ mol ⁻¹					
In+++	gl	KNO ₃	15°C	0.10M	U			1956STa (73888) 416
						K(In+HL)=1.0		
						K(InLOH+H)=8.80		

C10H18N2O7 H3L HEDTA CAS 150-39-0 (392)
N-(Hydroxyethyl)diaminoethane-N,N',N'-triethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KNO ₃	35°C	0.10M	U			K1=24.33	1980KHb (75426) 417	
In+++	sp	NaClO ₄	25°C	0.10M	U			K1=20.2	1972NKa (75427) 418	
In+++	ix	oth/un	?	0.50M	U			K1=17.16	1963RMb (75428) 419	

C10H20N2O4 H2L CAS 5578-84-7 (5914)
N,N-Dihydroxydecanediamide; HN(OH).CO.(CH₂)₈.CO.NH(OH)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaNO ₃	25°C	0.10M	C			K1=16.08	1989EHa (75801) 420	

C10H20N2O4S2 H4L EDDASS (6912)
N,N'-Bis(2-mercaptoethyl)diaminoethane-N,N'-diethanoic acid;
(-CH₂.N(CH₂.CH₂.SH)CH₂.COOH)₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KNO ₃	25°C	0.10M	C			K1=37.0	1996SAb (75814) 421	
In+++	gl	KCl	25°C	0.10M	C			K1=37.0	1995SMa (75815) 422	
In+++	gl	KCl	25°C	0.10M	C			K1=37	1995SMb (75816) 423	

C10H24N2S2 H2L (7871)
N,N'-Bis(2,2-dimethyl-2-mercaptoethyl)diaminoethane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++ g1 KN03 25°C 0.10M C K1=27.34 1996SAb (76598) 424
 $K_{In(OH)L+H} = 6.66$
 $K_{InL+H} = 2.1$
 $K_{In(OH)2L+H} = 11.1$

C11H8N3O2Br H2L CAS 17091-08-6 (4865)
4-(5'-Bromo-2'-pyridylazo)-1,3-dihydroxybenzene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K	values	Reference	ExptNo
In+++	sp	oth/un	?	0.10M	U					1967BIA (76921)	425
										$K(\text{In}+3\text{H} \rightleftharpoons \text{InL}_2 + 3\text{H}) = 2.54$	

C11H8N6O7S2 **H4L** **CAS 35322-95-7 (909)**
3-Hydroxy-4-(1H-tetrazol-5-ylazo)-2,7-naphthalenedisulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaClO4	25°C	var	U				1992PPa (76939)	426
								$K(\text{In}+\text{H}_2\text{L}=\text{InL}+2\text{H})=0.06$		
In+++	sp	NaClO4	25°C	0.10M	U				1981PSa (76940)	427
								$K(\text{In}+\text{H}_2\text{L}=\text{InL}+2\text{H})=-0.67$		

C11H8N6O8S2 H5L CAS 74385-48-1 (897)
2-(1H-Tetrazol-5-ylazo)chromotropic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaClO4	25°C	var	U				1992PPa (76952)	428
								$K(\text{In} + \text{H}_3\text{L} = \text{InHL} + 2\text{H}) = -2.54$		

1n++ sp NaClO4 25°C 0.10M 0 1981PSa (76953) 429
 $K_{(In+H3L=InHL+2H)} = -3.28$

C11H8O4 HL CAS 7555-37-5 (4812)
3-Acetyl-4-hydroxycoumarin

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

In+++ gl diox/w 35°C 50% U K1=4.30 B2=7.48 1971MAa (77179) 430
Medium: 50% dioxan, 0.01 M NaClO4

C11H8O4 HL CAS 6724-42-1 (6183)
8-Formyl-7-hydroxy-4-methyl-2H-1-benzopyran-2-one; CHO.C9H30(:O)(CH3)(OH)

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

In+++ gl alc/w 35°C 70% U K1=6.56 B2=12.88 1988Krc (77202) 431

C11H9N04 H2L CAS 4321-82-7 (4829)
3-Acetyl-4-hydroxycoumarin oxime;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	diox/w	35°C	50%	U				1971MAa (77422)	432
								K(In+HL)=3.84		
								K(In+2HL)=6.64		

Medium: 50% dioxan, 0.01 M NaClO4

C11H9N302 H2L PAR CAS 1141-59-9 (636)
4-(2'-Pyridylazo)-1,3-dihydroxybenzene; C5H4N.N:N.C6H3(OH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	NaClO4	25°C	0.80M	U	I			1985MBa (77551)	433
								B(In+H3L=InHL+2H)=-1.44		
Also data for 5-35% CH3CN, Me2SO and DMF and 5-50% CH3OH.										

In+++ gl diox/w 25°C 50% U K1=12.54 B2=24.00 1978SMb (77552) 434
Medium: 50% dioxane/H2O, 0.20 M NaClO4.

In+++	sp	NaClO4	25°C	0.10M	U				1971BRd (77553)	435
								K(InOH+HL)=21.57		
In+++	sp	oth/un	25°C	?	U				1966DMf (77554)	436
								K(?)=9.3		

C11H18N207S H3L (639)
N,N-Bis-carboxymethylamino-acetyl-methionine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	EMF	KNO3	25°C	0.10M	U			K1=8.90 B2=15.37	1983YJa (79209)	437

C11H18N208 H4L CAS 38539-29-0 (2573)
1,3-Diaminopropane-N,N'-di(1,4-butanedioic acid)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	KNO3	25°C	0.1M	U			K1=22.02	1976GDc (79367)	438
								K(In+HL)=16.08		

C11H18N208 H4L CAS 4408-81-5 (923)
1,3-Diaminopropane-N,N,N',N'-tetraethanoic acid; ((HOOC.CH2)2N.CH2.)2.CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	EMF	NaClO4	20°C	0.10M	U			K1=21.15	1967BAC (79452)	439
								K(InL+H)=1.64		

$$K(\text{InL}+\text{OH})=5.60$$

C11H18N209 H4L CAS 668-21-1 (2562)
2-Hydroxy-1,3-diaminopropane-N,N'-di(1,4-butanedioic) acid

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	KNO ₃	25°C	0.1M	U			K1=23.75 K($\text{In}+\text{HL}$)=16.98	1976GDc (79598)	440

C11H24N202S2 H3L (7911)
1-Carboxy-N,N'-bis(2,2-dimethyl-2-mercaptoproethyl)diaminoethane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KNO ₃	25°C	0.10M	C			K1=30.9 K($\text{In}(\text{OH})\text{L}+\text{H}$)=8.8	1996SAb (79900)	441

C11H30N6 L (6595)
5-(4'-Amino-2'-azabutane)-5-methyl-3,7-diazanonane-1,9-diamine;
CH₃.C(CH₂.NH.CH₂.CH₂.NH₂).3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KCl	25°C	0.50M	M			K1=15.1 K($\text{InL}+\text{H}$)=9.7 K($\text{InHL}+\text{H}$)=6.7 K($\text{InH}-1\text{L}+\text{H}$)=10.4	1991HLa (80060)	442

C12H8N2 L Phenanthroline CAS 66-71-7 (144)
1,10-Phenanthroline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	ISE	oth/un	25°C	1.0M	U			K1=5.70 B2=10.04 B3=14.0	1972KMF (80469)	443
In+++	dis	NaNO ₃	25°C	1.0M	U			K1=5.51 B2=10.10 B3=14.49	1971KMg (80470)	444

C12H9N206ClS H4L Lumogallion CAS 4386-25-8 (4967)
5-Chloro-2-hydroxy-1-(2',4'-dihydroxyphenylazo)-3-sulfobenzene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	oth/un	rt	?	U				1967SYa (80612)	445

$$K(\text{InOH}+\text{H3L}=\text{InOH}(\text{H2L})+\text{H})=5.09$$

C12H10N202 H2L CAS 2050-14-8 (3378)
2,2'-Dihydroxyazobenzene; HO.C₆H₄.N:N.C₆H₄.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
<hr/>										
In+++	dis	NaCl	RT	2.0M	C				1977NAc	(81993) 452
K(In+5HL(org)=InL3(HL)2(org)+3H)=16.3										
Method: extraction from 2.0 M NaCl solution into benzene.										
<hr/>										
C12H20N208		H4L					CAS	40623-42-5 (1101)		
1,2-Diaminoethane-N,N'-di(2-pentane-1,5-dioic acid); (CH ₂ NHCH(COOH)CH ₂ CH ₂ COOH) ₂										
<hr/>										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
<hr/>										
In+++	vlt	KNO ₃	25°C	0.10M	U		K1=20.55		1973GKc	(82079) 453
K(In+HL)=16.12										
<hr/>										
C12H20N208S		H4L	TEDTA				CAS	923-74-0 (3394)		
2,2'-Thiobis(ethyliminodiethanoic acid); S(CH ₂ .CH ₂ .N(CH ₂ .COOH)2)2										
<hr/>										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
<hr/>										
In+++	EMF	NaClO ₄	20°C	0.10M	U		K1=20.26		1967BAc	(82462) 454
K(InL+H)=1.88										
K(InL+OH)=4.2										
<hr/>										
In+++	sp	oth/un	19°C	0.0	U	M	K1=24.1		1966ZAb	(82463) 455
K(FeL+In=InL+Fe)=0.76										
<hr/>										
C12H20N209		H4L	EEDTA				CAS	923-73-9 (2112)		
Oxa-bis(ethyleneimino)diethanoic acid; ((HOOC.CH ₂) ₂ N.CH ₂ .CH ₂) ₂₀										
<hr/>										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
<hr/>										
In+++	EMF	NaClO ₄	20°C	0.10M	U		K1=25.5		1967BAc	(82544) 456
K(InL+H)=2.1										
K(InL+OH)=3.90										
<hr/>										
In+++	sp	oth/un	19°C	?	U	M	K1=22.67		1965ZAa	(82545) 457
K(FeL+In=InL+Fe)=0.37										
<hr/>										
C12H21N306		H3L	NOTA				(5589)			
1,4,7-Triazacyclononane-N,N',N"-triethanoic acid;										
<hr/>										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
<hr/>										
In+++	gl	KCl	25°C	0.10M	C		K1=26.2		1991CMD	(82737) 458
*K(InL)=-6.60										
<hr/>										
C12H22012		HL	Lactobionic acd				CAS	96-82-2 (2487)		
4-O-Beta-D-Galactopyranosyl-D-gluconic acid;										
<hr/>										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo

 In+++ gl NaNO₃ 25°C 0.10M C 1995E0a (82932) 459
 B(InH-3L)=-9.53

 C12H27N3O3 L (6685)
 1,3,5-Trideoxy-1,3,5-tris(dimethylamino)-cis-inositol;

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

 In+++ gl KNO₃ 25°C 0.10M C B2=28.46 1995HKb (84072) 460

 C12H27N3S3 HL TACN-TM (6952)
 1,4,7-Tris(2-mercaptoethyl)-1,4,7-triazacyclononane;

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

 In+++ gl KCl 25°C 0.10M C K1=36.1 1995MWa (84100) 461
 B(InHL)=42.2

 C13H9N3O7S3 H3L CAS 2172-27-2 (5007)
 1-(2-Thiazolylazo)-2-naphthol-3,6-disulfonic acid;

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

 In+++ sp NaClO₄ ? 0.10M U K1=9.26 1972BZa (84653) 462

 C13H9N3O8S3 H3L CAS 28467-51-8 (898)
 2-(2-Thiazolylazo)chromotropic acid;

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

 In+++ sp NaClO₄ 25°C 0.10M U 1981PSa (84665) 463
 K(2In+H2L=In2H-2L+4H)=-8.9

 C13H11N02 HL CAS 304-88-1 (181)
 N-Phenylbenzohydroxamic acid; C₆H₅.CO.N(C₆H₅).OH

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

 In+++ gl diox/w 25°C 50% U K1=8.93 B2=17.45 1972GDb (85157) 464
 B3=24.32

Medium: 50% dioxan, 0.25 M NaClO₄

 In+++ dis NaClO₄ 25°C 0.10M U K1=9.2 B2=18.4 1968SAb (85158) 465
 B3=26.3

 C14H8O7S H3L DASA CAS 83-61-4 (950)
 1,2-Dihydroxyanthraquinone-3-sulfonic acid, Alizarin Red S;

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

 In+++ sp NaClO₄ rt 0.10M U 1971NOc (86737) 466
 K(In+2H₂L)=11.5

****=
 C14H9O2F3 HL (3429)
 1,1,1-Trifluoro-1'-naphthoylacetone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	mixed	25°C	46%	U			K1=6.93 B2=13.58	1972BTb (86873)	467
Medium: 46% acetone, 0.1 M Et ₄ ClO ₄										

****=
 C14H1007S H5L CAS 30782-99-1 (5045)
 1,2,5,10-Tetrahydroxyanthracene-3-sulfonic acid (Leucoalizarin red S)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	NaClO ₄	?	0.10M	U				1971NPb (86936)	468

K(In+H₃L)=8.4
 K(In+H₄L)=7.0

****=
 C14H13N5OS HL (5394)
 1-(2-Pyridylmethylideneamino)-3-(salicylideneamino)thiourea;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	mixed	25°C	40%	U				1985RGa (87616)	469

Medium: 40% DMF, pH 4.5
 K_{1eff}=5.05

****=
 C14H14N40Br₂ HL CAS 35601-32-2 (5092)
 5-(3,5-Dibromo-2-pyridylazo)-2-ethylamino-4-hydroxy-1-methylbenzene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	oth/un	?	?	U			K1=6.22	1966GUa (87686)	470

****=
 C14H15N40Br HL CAS 14337-50-9 (5095)
 5-(5-Bromo-2-pyridylazo)-2-ethylamino-4-hydroxy-1-methylbenzene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	oth/un	?	?	U				1966GUa (87765)	471

K(?)=6.62

****=
 C14H16N40 HL PAAC CAS 13059-69-3 (5067)
 5-Ethylamino-4-methyl-2-(2'-pyridylazo)phenol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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In+++ sp oth/un 20°C ? U 1966GNb (88018) 472

$$K(?)=5.19$$

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
In+++	EMF	KNO ₃	25°C	0.10M	C			K1=29.37 K(InL+H)=1.36 K[In(OH)L+H]=8.78	1997DFa (88690)	473
In+++	g1	KNO ₃	35°C	0.10M	U			K1=27.87	1980KHb (88691)	474
In+++	EMF	NaClO ₄	20°C	0.10M	U			K1=28.74 K(InL+OH)=5.00	1967BAC (88692)	475
In+++	ix	oth/un	?	0.50M	U			K1=25.05	1963RMb (88693)	476
In+++	dis	NaClO ₄	20°C	0.10M	U			B(InL(OH))=33.46	1963STC (88694)	477

Medium: KC104

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
In+++	sp	R4N.X	25°C	0.50M	U			K1=31.17	1999DLa (89288)	478
Medium: 0.5 M Me4NCl										
In+++	EMF	KNO3	25°C	0.10M	C			K1=29.48	1997DFa (89289)	479
In+++	gl	KNO3	35°C	0.10M	U			K1=32.82	1980KHb (89290)	480
In+++	dis	NaClO4	?	1.00M	U			K1=27.25	1974LKc (89291)	481

Distribution between H₂O-phase and 0.1% solution of di-2-ethylhexylphosphoric acid in toluol. In-114 used

In++ sp NaClO₄ 25°C 0.10M U K1=29.6 1972NKA (89292) 482

In+++ EMF NaClO₄ 20°C 0.10M U K1=29.0 1967BAC (89293) 483
 $K_{(InL+OH)}=2.06$

In+++ sp oth/un 19°C ? U M K1=28.42 1966ZAc (89294) 484
 $K(\text{In}+\text{FeL}=\text{InL}+\text{Fe})=0.91$

In+++ ix oth/un ? 0.50M U K1=27.65 1963RMb (89295) 485

C14H23O3P HL CAS 13244-67-2 (8312)

Phenylphosphonic acid monoctyl ester;

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

In+++ dis NaCl RT 2.0M C 1977NAc (89478) 486

K($\text{In}+3\text{HL}$ (org)= InL_3 (org)+3H)=7.4

Method: extraction from 2.0 M NaCl solution into benzene.

C14H24N208 H4L HMDTA CAS 1633-00-7 (920)

1,6-Diaminohexane-N,N,N',N'-tetraethanoic acid; ((HOOC.CH₂)₂N.CH₂.CH₂.CH₂)₂

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

In+++ sp oth/un 19°C ? U 1965ZAa (89584) 487

K($\text{In}+\text{HL}$)=9.03

C14H25N307 H3L (5397)

1-Oxa-4,7,10-triazacyclododecane-4,7,10-triethanoic acid;

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

In+++ gl KCl 25°C 0.10M C K1=25.48 1993DSa (90086) 488

K($\text{InL}+\text{H}$)=1.8

K($\text{In(OH)L}+\text{H}$)=9.59

C14H28N204S2 H4L CAS RH (7915)

N,N'-Bis(2,2-dimethyl-2-mercaptopethyl)ethylenediamine-N,N'-diethanoic acid;

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

In+++ gl KNO₃ 25°C 0.10M C K1=39.8 1996SAb (90469) 489

K($\text{In(OH)L}+\text{H}$)=10.7

Value K1 was reported in this paper incorrectly as 29.8, later (page 2434)
the correct value 39.8 was published

C14H32N204 L CAS 102-60-3 (2678)

Tetra(2-hydroxypropyl)-N,N,N',N'-diaminoethane; (-CH₂.N(CH₂.CH(OH).CH₃)₂)₂

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

In+++ gl NaNO₃ 25°C 0.10M U K1=8.20 1991DMb (90745) 490

K($\text{InL}+\text{OH}$)=10.40

K($2\text{InL}+3\text{OH}=\text{In}_2\text{H}-3\text{L}_2$)=32.24

C15H10N3OCl HL CAS 16195-35-0 (27)

5-(4-Chlorophenylazo)-8-hydroxyquinoline; Cl.C₆H₄.N:N.C₉H₅N.OH

C15H11N30 HL CAS 4312-09-8 (989)
5-Phenylazo-8-hydroxyquinoline; C6H5.N:N.C9H5N.OH

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

In+++ sp oth/un 25°C 0.10M U K1=3.77 1978Kia (91268) 500
B3=13.97

C15H11N304S H2L (7010)
2-(2-Pyridylazo)-1-naphthol-4-sulfonic acid;

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

In+++ sp KNO3 25°C 0.10M U K1=9.96 B2=18.04 1980VHa (91326) 501

C15H11N305S H3L CAS 111248-75-0 (8411)
5-(2'-Hydroxy-5'-phenylazo)-8-quinolinol;

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

In+++ sp oth/un RT dil C 1985IBa (91342) 502
K1eff=5.15
B2eff=11.28
B3eff=16.17

Medium: Britton and Robinson buffer, pH 6.6

C15H12N202S HL CAS 29665-05-2 (1405)
1-Phenyl-3-methyl-4-(2-thenoyl)pyrazol-5-one;

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

In+++ dis oth/un 25°C ? U M 1982BTa (91438) 503
K(In+3HL=InL3+3H)=0.87
K(InCl+2HL=InL2Cl+2H)=-0.35

C15H20N207 H4L (6954)
N-(Hydroxobenzyl)diaminoethane-N,N',N'-triethanoic acid;
HO.C6H4.CH2.N(CH2COOH)CH2CH2.N(CH2COOH)2

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

In+++ gl KCl 25°C 0.10M C K1=26.94 1995MMa (92170) 504
B(InHL)=31.52
B(InH2L)=33.84

C16H9N06S H2L CAS 71816-00-7 (9034)
6-Hydroxy-5-oxo-5H-benzo[a]phenoxyazine-10-sulfonic acid;

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

In+++ sp KCl 25°C 0.01M C 1980NRa (92638) 505
 B2eff=11.46 (pH 5.09)

 C16H12N2O8S2 H4L Chromotrope 2R CAS 4197-07-3 (2604)
 2-(Benzeneazo)-chromotropic acid, Acid Red 29

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

 In+++ gl NaClO4 25°C 0.10M U K1=19.80 B2=37.00 1975MPa (93066) 506

 C16H12N2O11S3 H5L CAS 548-81-2 (5180)
 2-(4'-Sulfophenylazo)chromotropic acid,
 2-(4-sulfophenylazo)-1,8-dihydroxyaphthalene-3,6-diHSO3

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

 In+++ gl NaClO4 25°C 0.10M U K1=14.34 B2=27.10 1975MPa (93096) 507

 C16H13N2O10AsS2 H5L Thorin I CAS 3688-92-4 (2609)
 1-((2-Arsonophenyl)azo)-2-hydroxy-3,6-naphthalyl disulfonic acid;

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

 In+++ sp oth/un 25°C ? U 1968GSe (93196) 508
 K(?)=9.9

 C16H13N2O11AsS2 H6L Arsenazo I CAS 520-10-5 (277)
 2-(2'-Arsonophenylazo)chromotropic acid;

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

 In+++ sp oth/un 25°C 0.0 U 1973JMa (93258) 509
 K(In+H4L=InH2L+2H)=5.6

 C16H20N4O L PAMB (5164)
 4-Ethoxy-2-ethylamino-1-methyl-5-(2-pyridylazo)benzene;

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

 In+++ sp oth/un 20°C ? U B2=5.74 1966GNb (94086) 510

 C16H27O3P HL CAS 52299-33-9 (8311)
 Phenylphosphonic acid monodecyl ester;

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

 In+++ dis NaCl RT 2.0M C 1977NAc (94697) 511
 K(In+3HL(org)=InL3(org)+3H)=7.6
 Method: extraction from 2.0 M NaCl solution into benzene.

C16H28N4O8 H4L DOTA CAS 60239-18-1 (1017)
1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KCl	25°C	0.10M	C			K1=23.9 K(InL+H)=3.44	1991CMb (94906)	512

C16H29N3O8 H3L (6699)
1,7-Dioxa-4,10,13-triazacyclopentadecane-N,N',N"-triethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KCl	25°C	0.10M	C			K1=23.56 K(InL+H)=2.49	1993DSa (94976)	513

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
In+++	dis	oth/un	25°C	var	C	T			1993LYb (95509)	514

K(In+3H₂L₂(org))=In(HL₂)₃(org)+3H=5.85 for extraction from 0.15 M Na₂S₀4 into octane. For 2.05 M Na₂S₀4, K=5.32. Data for 5-30 C. K on molal scale.

C17H14N2O2 L CAS 4551-69-3 (698)
4-Benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	dis	oth/un	25°C	?	U	M			1982BTa (95886)	515

K(InCl₂+2HL=InL₂Cl₂+2H)=0.26
K(In+3HL=InL₃+3H)=1.48

In+++ dis NaClO₄ 21°C 1.0M C K1=6.9 B2=14.00 1978NMB (95887) 516
B3=20.6

Method: distribution of ¹¹⁴In between 1.0 M NaClO₄ solution and benzene.

In+++ dis oth/un 25°C 0.10M U 1969ZGa (95888) 517
B3=20.2

C17H14N2O5S H3L Calmagite CAS 3147-14-6 (2875)
1-(1-Hydroxy-4-methyl-2-phenylazo)-2-naphthol-4-sulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaClO ₄	25°C	0.20M	U			K1=17.09 B2=31.96	1978SMb (95928)	518

C17H20N4O2 H2L CAS 39965-80-5 (5221)
1,3-Dihydroxy-4-(2-N-methylanabasinyl-alpha-azo)benzene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
<hr/>										
In+++	gl	NaCl	25°C	0.16M	C			K1=22.6 K($\text{In}+\text{L}=\text{In}\text{L}(\text{OH})+\text{H}$)=15.44 K($\text{In}\text{L}(\text{OH})+\text{H}$)=7.16	1997CRa (97545)	525
<hr/>										
C18H24N6O9		H3L	BAMTPH				CAS	87834-24-0	(5915)	
N,N',N"-Tris(3-(hydroxyamino)-3-oxopropyl)-1,3,5-benzenetricarboxamide; C6H3(CONHCH2CH2CONHOH)3										
<hr/>										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
<hr/>										
In+++	gl	NaNO ₃	25°C	0.10M	C			K1=22.83	1989EHa (97620)	526
<hr/>										
C18H28N4O4		H2L					(7378)			
7-Methyl-3,7,11,17-tetraazabicyclo[11.3.1]heptadeca-1(17),13,15-triene-3,11-diethanoic acid;										
<hr/>										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
<hr/>										
In+++	gl	R4N.X	25°C	0.10M	C			K1=18.94 K($\text{In}\text{L}+\text{H}$)=2.38	1997CDb (97786)	527
Medium: NMe ₄ NO ₃										
x										
<hr/>										
C18H30N4O12		H6L	TTHA				CAS	869-52-3	(694)	
Triethylenetetraaminehexaethanoic acid;((HOOC.CH ₂) ₂ N.CH ₂ .CH ₂ .N(CH ₂ .COOH).CH ₂) ₂										
<hr/>										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
<hr/>										
In+++	EMF	KNO ₃	25°C	0.10M	C			K1=26.88 K($\text{In}\text{L}+\text{H}$)=7.30 K($\text{In}\text{L}+\text{In}$)=9.0 K($\text{In}\text{HL}+\text{H}$)=2.33 K[$\text{In}_2(\text{OH})\text{L}+\text{H}$]=4.2	1997DFa (98055)	528
<hr/>										
In+++	gl	KCl	25°C	0.10M	C			K1=26.75	1984TMc (98056)	529
<hr/>										
C18H32N4O8		H4L	TETA				CAS	60239-22-7	(1019)	
1,4,8,11-Tetraazacyclotetradecane-1,4,8,11-tetraethanoic acid;										
<hr/>										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
<hr/>										
In+++	gl	KCl	25°C	0.10M	C			K1=21.89 K($\text{In}\text{L}+\text{H}$)=2.71	1991CMb (98210)	530
<hr/>										
C18H32N4O9		H4L					CAS	189282-31-3	(8974)	
4,7,10,13-Tetrakis-(carboxymethyl)-1-oxa-4,7,10,13-tetraazacyclopentadecane;										
<hr/>										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo

 In+++ gl R4N.X 25°C 0.10M C K1=22.88 1999CDB (98258) 531
 K(InL+H)=3.88
 K(InL+In)=6.57
 *K(InL)=-9.56

Medium: 0.10 M NMe4NO3.

C19H12O8S H4L Pyrogallol red CAS 85531-30-2 (638)
 Pyrogallolsulfonephthalein;

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

 In+++ sp oth/un 25°C ? U 1968GSa (99000) 532
 K(?)=4.8

C19H14O7S H4L Pyrocatechol Vi CAS 369596-29-2 (709)
 Pyrocatechol Violet,
 3-[3,4-Dihydroxyphenyl-3-hydroxy-4-oxo-2,5-cyclohexadien-1-ylidenemethyl-b.];

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

 In+++ sp oth/un 25°C 0.10M U 1970BRd (99109) 533
 K(In(OH)2+H2L)=7.70
 K(InOH+2H2L)=9.10

Ligand: Pyrocatechol sulfophthalein

C19H28N4O6 H3L CAS 106967-44-6 (8973)
 3,7,11-Tris(carboxymethyl)-3,7,11,17-tetraazabicyclo[11.3.1]heptadeca-1(17),13,15-triene;

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

 In+++ gl R4N.X 25°C 0.10M C K1=21.16 1998CDa (99409) 534
 K(InL+H)=1.85

Medium: 0.10 M Me4NNO3.

C20H11N09S2 H3L CAS 65501-73-7 (8982)
 6-Hydroxy-5-dibenzo[a,j]phenoaxazole-8,11-disulfonic acid;

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

 In+++ sp KCl 25°C 0.01M C 1980NRa (99534) 535
 K_{eff}=5.52 (pH 5.06)

C20H11N09S2 H3L CAS 73847-78-6 (9035)
 6-Hydroxy-5-oxo-5H-dibenzo[a,j]phenoxazine-11,13-disulfonic acid;

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

 In+++ sp KCl 25°C 0.01M C 1980NRa (99536) 536

B2eff=8.44 (pH 4.90)

C20H11N09S2 H3L CAS 66451-74-9 (8983)
6-Hydroxy-5-oxo-5H-dibenzo[a,j]phenoxazine-9,11-disulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
In+++	sp	KCl	25°C	0.01M	C			1980NRa (99538)	537
							K1eff=5.17 (pH 4.95)		

C20H13N307S H3L Eriochrome Bl T CAS 1787-61-7 (997)
1-(1-Hydroxy-2-naphthylazo)-6-nitro-2-naphthol-4-sulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
In+++	sp	oth/un	20°C	0.10M	U			1980PKa (99567)	538
							K _(In+3HL) =19.82		

Medium: Na₂S0₄

In+++	gl	NaClO ₄	25°C	0.10M	U		K ₁ =14.36 B ₂ =25.23	1975MPa (99568)	539
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C20H14N205S H3L Solochrome 6B CAS 3564-14-5 (3507)
1-(1-Hydroxy-2-naphthylazo)-2-naphthol-4-sulfonic acid, Mordant Black3, Eriochrome blue-black B;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
In+++	gl	NaClO ₄	25°C	0.10M	U		K ₁ =18.30 B ₂ =32.60	1975MPa (99653)	540

C20H14N205S H3L EriochrBluBlk R CAS 2538-85-4 (3508)
3-Hydroxy-4-(2-hydroxy-1-naphthylazo)naphthalene-1-sulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
In+++	gl	NaClO ₄	25°C	0.20M	U		K ₁ =16.48 B ₂ =31.14	1978SMB (99693)	541

C20H24N206 H4L HBED CAS 3625-89-6 (2208)
N,N'-Di-(2-hydroxybenzyl)-diaminoethane-N,N'-diethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
In+++	sp	R4N.X	25°C	0.50M	U		K ₁ =29.88	1999DLa (100002)	542
							K _(InL+H) =3.45		

Medium: 0.5 M Me4NCl

In+++	gl	KCl	25°C	0.10M	U		K ₁ =27.76	1994MMe (100003)	543
							K _(InL+H) =3.48		

In+++	sp	KCl	25°C	0.10M	M		K ₁ =32.2	1990MMa (100004)	544
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In+++ nmr none 15°C 0.0 U K1=39.66 1985T_{Ma} (100005) 545

 In+++ gl KCl 25°C 0.10M C K1=39.66 1984T_{Mb} (100006) 546

 In+++ gl KCl 25°C 0.10M C K1=39.66 1984T_{Mc} (100007) 547

 C20H24N2012S2 H6L CAS 3625-85-3 (5755)
 N,N'-Bis(2-hydroxy-5-sulfobenzyl)-diaminoethane-N,N'-diethanoic acid;

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

 In+++ sp KCl 25°C 0.10M M K1=29.37 1990M_{Ma} (100035) 548
 K(InL+H)=2.82
 K(In(OH)L+H=InL+H)=10.82

 In+++ gl KCl 25°C 0.10M C K1=29.37 1989M_{Sc} (100036) 549
 K(InL+H)=2.82
 K(InH-1L+H)=10.82

 In+++ gl KCl 25°C 0.10M C K1=37.40 1984T_{Mb} (100037) 550
 K(InL+2H)=5.31

 C20H26N4O6 H4L ENDA-HP (6746)
 N,N'-Bis(3-hydroxy-6-methyl-2-pyridylmethyl)diaminoethane-N,N'-diethanoic acid;

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

 In+++ sp KCl 25°C 0.10M C K1=28.02 1992M_{Sa} (100331) 551
 K(InL+H)=5.98
 K(InHL+H)=4.85

 C20H30N208P2 H4L CAS 112827-88-0 (8105)
 N,N'-Bis(2-hydroxybenzyl)diaminoethane-N,N'-bis(methylenephosphonic acid monomethyl ester);

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

 In+++ gl KCl 25°C 0.10M C K1=28.12 1984T_{Md} (100415) 552
 K(InOHL+H)=6.63

 C20H30N4O8S2 H2L CAS 173102-22-2 (3839)
 1,10-Bis(2-hydroxy-5-sulfonylphenyl)-1,4,7,10-tetraazadecane;
 (C₆H₃(OH)(HSO₃)CH₂NHCH₂CH₂NHCH₂)₂

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

 In+++ gl NaCl 25°C 0.16M C K1=24.54 1996W_{Ca} (100426) 553

 C20H36O6 L DiCy-18-crown-6 CAS 16069-36-6 (1653)
 2,3:11,12-Dicyclohexyl-1,4,7,10,13,16-hexaoxacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	dis	non-aq	25°C	100%	U				1995BSa (100651)	554
K($\text{In}(\text{HA})\text{X}+\text{L}=\text{Fe}(\text{HA}), \text{L}, \text{X}$)=4.43										
Medium:CHCl ₃ . Data for host-guest associations. H3A: desferrioxamine. X=ClO ₄										
L: cis-syn-cis and cis-anti-cis mixture. Also data for syn-L, anti-L										

C21H21NS3			L					CAS 215432-65-8	(7646)	
Tris(2-mercaptophenyl)amine;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	alc/w	25°C	70%	C			K ₁ =21.2 K($\text{InL}+\text{H}$)=1.8	1998MMa (101163)	555
Medium: 70% (v/v) EtOH/H ₂ O, 0.1 M KCl.										

C21H22N40			HL					CAS 56932-30-0	(5308)	
1-Hydroxy-2-(2-N-methylanabasanyl-alpha-azo)naphthalene;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	oth/un	?	?	U			B ₂ =18.5	1967PAa (101202)	556

C21H25N307			H4L					(6563)		
N-(2-Hydroxybenzyl)-N'-(pyridoxyl)ethylenediamine-N,N'-diethanoic acid;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	KCl	25°C	0.10M	C			K ₁ =28.97 K($\text{InL}+\text{H}$)=6.21 K($\text{InHL}+\text{H}$)=2.89	1991MSb (101274)	557

C22H23N208Cl			H2L		Aureomycin			CAS 56235-18-8	(3515)	
Chlorotetracycline;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	NaClO ₄	20°C	0.10M	U T H				1983SSh (101761)	558
K($\text{In}+\text{HL}$)=8.45 K($\text{In}+2\text{HL}$)=14.74										
Method: polarography. Also data for 30 and 40 C. DH($\text{In}+\text{HL}$)=20.2 kJ mol ⁻¹ , DS($\text{In}+\text{HL}$)=92.9 J K ⁻¹ mol ⁻¹ ; DH($\text{In}+2\text{HL}$)=42.1, DS($\text{In}+2\text{HL}$)=138.4.										

C22H24N208			H2L		Tetracycline			CAS 60-54-8	(2201)	
Tetracycline;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	NaClO ₄	20°C	0.10M	U T H				1983SSh (101818)	559

$$K(In+HL) = 8.65$$

$$K(In+2HL) = 15.11$$

Method: polarography. Also data for 30 and 40 C. DH($In+HL$)=21.9 kJ mol⁻¹, DS($In+HL$)=90.7 J K⁻¹ mol⁻¹; DH($In+2HL$)=45.6, DS($In+2HL$)=133.5.

In+++ vlt NaClO₄ 20°C 0.10M U T H 1983SSh (101819) 560
K(In+HL)=8.31
K(In+2HL)=14.63

Method: polarography. Also data for 30 and 40 C. DH($In+HL$)=18.4 kJ mol⁻¹, DH($In+2HL$)=38.2. Ligand defined as Dimethylchlorotetracycline

C22H24N2O9 H2L Oxotetracycline CAS 79-57-2 (2202)
Oxytetracycline, 5-Hydroxy-tetracycline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	vlt	NaClO4	20°C	0.10M	U	T	H		1983SSh (101884)	561
								$K_{(In+HL)}=8.54$		
								$K_{(In+2HL)}=14.83$		

Method: polarography. Also data for 30 and 40 C. DH($In+HL$)=21.9 kJ mol⁻¹, DS($In+HL$)=88.6 J K⁻¹ mol⁻¹; DH($In+2HL$)=43.9, DS($In+2HL$)=134.1.

C22H26N4O8 H4L (5526)
N,N'-Dipyridoxylethylenediamine-N,N'-diethanoic acid;

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

In+++ g1 KC1 25°C 0.10M C K1=26.54 1989MSc (101960) 562
K($\text{InL}+\text{H}$)=7.15
K($\text{InHL}+\text{H}$)=6.34
K($\text{InL}=\text{InH}-\text{1L}+\text{H}$)=-11.21

In+++ nmr none 15°C 0.0 U K1=36.86 1985TMA (101961) 563
K(InL+H)=7.96
K(InHL+H)=6.68

In+++ gl KCl 25°C 0.10M C K1=36.89 1984TMB (101962) 564
K(InL+H)=7.96
K(InHL+H)=6.68

C22H32N2O2 HL CAS 58248-65-0 (1406)
1-Phenyl-3-methyl-4-[lauroyl]pyrazol-5-one:

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

In+++ dis oth/un 25°C ? U M 1982BTa (102199) 566

$$K(I_{n+3}HL = I_nL_3 + 3H) = 1.03$$

C22H34N2O8P2 H4L CAS 92278-41-6 (8106)
N,N'-Bis(2-hydroxybenzyl)diaminoethane-N,N'-bis(methylenephosphonic acid monoethyl ester);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KCl	25°C	0.10M	C			K1=28.09 K _(InOHL+H) =6.61	1984TMd (102218)	567

C22H34N4O8S2 H2L CAS 173102-23-3 (3949)
1,12-Bis(2-hydroxy-5-sulfophenyl)-1,5,8,12-tetraazadodecane;
(C₆H₃(OH)(HSO₃)CH₂NHC₃H₆NHCH₂)₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaCl	25°C	0.16M	C			K1=24.56	1996WCa (102226)	568

C22H41N5O8			H3L				CAS	189687-33-0	(7103)	
Diethylenetriamine-N,N',N"-triethanoic acid-N,N"-bis(butylamide);										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KNO ₃	25°C	0.10M	C			K1=22.7 K _(InL+H) =1.9 *K _(InL) =-10.2	1995GDa (102389)	569

C23H16O9Cl2S H4L Chrome azurol S CAS 1667-99-8 (711)
Chromazurol S;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	oth/un	25°C	?	U				1964Mdb (102561)	570
								$K(?)=4.4$		

C23H30N2O6 H4L CAS 132750-98-2 (6543)
N,N'-Trimethylenebis(2-(2-hydroxy-3,5-dimethylphenyl)glycine);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	KCl	25°C	0.10M	C			K1=25.99 K _{TnL+H} =4.26	1991BMa (102757)	571

K(TnI+H)=5.20

For facemic ligand: For meso form: $K_{120,00} = K_{(III-EH)} = 3.20$

C24H29N3O12S3 H6L (7355)
1,2,3-Tris((2-hydroxy-5-sulfobenzyl)amino)propane;

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

 In+++ gl NaCl 25°C 0.16M C K1=27.56 1997COa (103018) 572

 C24H31N308 H3L CAS 35369-55-2 (6972)

 N,N"-Bis(2-hydroxybenzyl)-2,5,8-triazanonane-N,N',N"-triethanoic acid;

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

 In+++ gl KCl 25°C 0.10M C K1=28.96 1994MMf (103058) 573

 K(InL+H)=8.37

 K(InHL+H)=5.84

 K(InH2L+H)=4.69

 C24H32N206 H3L Me4-HBED (6507)

 N,N'-Bis(2-hydroxy-3,5-dimethylbenzyl)ethylenediamine-N,N'-diethanoic acid;

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

 In+++ sp KCl 25°C 0.10M M K1=30.72 1990MMa (103064) 574

 C24H33N508 H5L (6747)

 N,N"-Bis(3-hydroxy-6-methyl-2-pyridylmethyl)diethylenetriamine-N,N'.N"-triethanoic acid;

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

 In+++ sp KCl 25°C 0.10M C K1=25.70 1992MSa (103204) 575

 K(InL+H)=8.87

 K(InHL+H)=5.55

 K(InH2L+H)=4.42

 C24H34N205 H3L (6509)

 N,N'-Bis(2-hydroxy-3,5-dimethylbenzyl)-N-(2-hydroxyethyl)-diaminoethane-N'-ethanoic acid;

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

 In+++ sp KCl 25°C 0.10M M K1=26.30 1990MMa (103215) 576

 K(In(OH)L+H=InL+H2O)=8.37

 C24H34N306 H3L CAS 134627-54-6 (6564)

 N-(2-Hydroxy-3,5-dimethylbenzyl)-N'-(3-hydroxy-1,2,5-trimethyl-4-pyridinyl)methyl EDDA;

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

 In+++ sp KCl 25°C 0.10M C K1=27.82 1991MSb (103219) 577

 C24H36N408 H2L CAS 134653-17-1 (6565)

 N,N'-Bis(1,2-dimethyl-3-hydroxy-5-hydroxymethyl)-4-pyridinyl)methyl diaminoethanedi

iethanoic acid

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	KCl	25°C	0.10M	C			K1=21.47	1991MSb (103271)	578
C25H32N6		L						CAS 132177-84-5	(536)	
3,11-Bis(2-pyridylmethyl)-3,7,11,17-tetraazabicyclo[11.3.1]heptadeca-1(17),13,15-triene;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KNO ₃	25°C	0.10M	C			K1=14.01	1999CDa (103745)	579
C25H48N6O8		H3L	Desferrioxamine	CAS 70-51-9	(2488)					
Desferrioxamine B; NH ₂ .((CH ₂) ₅ .NOH.CO.C ₂ H ₄ .CO.NH) ₂ .(CH ₂) ₅ .NOH.CO.CH ₃										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	KCl	25°C	0.10M	C			K1=21.39 K(In+HL)=20.60 K(InHL+H)=3.15 K(InL+H)=10.00	1989EHa (103817)	580
C26H33N3O12S3		H6L						(7354)		
1,1,1-Tris((2-hydroxy-5-sulfobenzyl)amino)methyl)ethane;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaCl	25°C	0.16M	C			K1=28.49	1997C0a (104065)	581
C26H48N6O10		H4L						CAS 207388-25-8 (7648)		
Triethylenetetramine-N,N,N',N'',N''',N'''-hexaethanoic acid NN-bis(butanamide);										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	R4N.X	25°C	0.10M	C			K1=23.69 K(InL+H)=4.68 K(InHL+H)=1.71 K(InL+In)=5.66 K(In2L(OH)+H)=2.38	1998ACc (104307)	582
Medium: N(CH ₃) ₄ NO ₃ .								K(In2L(OH) ₂ +2H)=7.33.		
C27H36N4O12S3		H6L						(7353)		
Tris((2-hydroxy-5-sulfobenzyl)amino)ethyl)amine;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	NaCl	25°C	0.16M	C			K1=29.3	1997C0a (104565)	583

C27H36N6O3	H3L	TACN-HP	(6748)						
N,N',N"-Tris(3-hydroxy-6-methyl-2-pyridylmethyl)-1,4,7-triazacyclononane;									
<hr/>									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
In+++	sp	KCl	25°C	0.10M	C		K1=28.02 K(InL+H)=5.93 K(InHL+H)=5.13 K(InH2L+H)=4.50 K(In+H3L)=10.93	1992MSa	(104574) 584

*K(InL)=-10.42

C28H30N4O8S2 H2L CAS 173102-11-9 (4197)
N,N'-Bis(2-hydroxy-5-sulfophenyl)-N,N'-bis(methylpyridyl)diaminoethane;

Metal Mtd Medium Temp Conc Cal Flags Ig K values Reference ExtNo

C28H31N3O18S3 H9L 3,4-LICAMS CAS 71659-79-5 (5469)
N,N',N'''-Tris(2,3-dihydroxy-5-sulfonatobenzoyl)-1,5,10-triazadecane;

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

In+++ gl KNO₃ 25°C 0.10M U K1=39 1982PWa (104746) 586
 $K_{(In+H3L=InL+3H)}=4.3$
 $K_{(InL+H)}=5.66$
 $K_{(InHL+H)}=5.29$

C30H27N3O15 H6L Enterobactin CAS 28384-96-5 (2259)
Enterobactin; cyclo-((OH)C6H3(OH).CO.NH.CH.CO.CH2)3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K	values	Reference	ExptNo
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In+++ sp KCl 25°C 0.10M C 1991LRa (105195) 587

$$K(\text{InL}+H) = 4.02$$

$$K(\text{InH}_3\text{L}+H) = 3.1$$

C30H27N3O18S3 H9L TRIMCAMS CAS 77069-63-7 (5468)
1,3,5-Tri(2,3-dihydro-5-methyl-5H-thieno[3,2-d]thiophen-2-yl)ethanide,N,N,N',N'-tetra-

In+++ g1 KN03 25°C 0.10M U K1=39 1982PWa (105207) 588
 $K_{(In+H3L=InL+3H)}=4.7$
 $K_{(InL+H)}=4.92$
 $K_{(InHL+H)}=4.70$

GRCH14N3G6 URL: <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=Nucleotide&term=GRCH14N3G6> (5552)

C₃₀H₄₄N₂O₆ HSL (6308) N,N'-Bis(2-hydroxy-3-methyl-5-tert-butylbenzyl)diaminoethane-N,N'-diethanesuccinic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	oth/un	25°C	0.10M	C				1997ASa (106606)	597
							K1eff=5.53			
							K2eff=3.89			
Medium: 0.10 M acetate buffer, pH 5.0.										
In+++	sp	NaClO4	25°C	0.10M	U				1969PKd (106607)	598
							B(InH2L)=38.18			
							K(In+H2L)=13.60			
							K(InH2L+H4L)=5.48			

C40H47N3O10 H7L CAS 86728-01-0 (5503)
Bis(3-((2-hydroxy-5-methylbenzyl)amino)methyl)-2-hydroxy-5-methylbenzyl)amine-triethanoic acid

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	gl	oth/un	25°C	0.10M	U		K1=16.65		1983YMa (106788)	599
							K(InH-1L+H)=5.73			
							K(InH-2L+H)=7.17			
							K(InH-3L+H)=9.44			
							K(InL+H)=3.21			

Polymer L (3532)
Human transferrin;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
In+++	sp	KNO3	25°C	0.10M	C				1994HCA (108215)	600
							Keff(In+HCO3L)=18.30			
							Keff(In+InHCO3L)=16.44			

At pH 7.4 in 0.1M N-(2-hydroxyethyl)piperazine-N'-2-ethanesulfonic acid, (HEPES) and 5mM HCO3

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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

EVALUATION Flags are :-

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

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