

SC-Database

Software version = 5.81 Data version = 4.62

Experiment list contains 25 experiments for  
(no ligands specified)

Metal : Ac+++

(no references specified)

(no experimental details specified)

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Ac+++	dis	NaClO4	27°C	1.0M	U			K1=-0.25 B2=-0.52	1968SMc	(1716) 1

Medium: HClO4

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Ac+++	dis	NaClO4	20°C	3.00M	U			K1=0.44 B2=0.31	1982FKb	(4440) 2
Ac+++	dis	NaClO4	25°C	4.0M	U			K1=-0.04 B2=-1.04 B3=-1.26	1969SSa	(4441) 3

Ac+++	dis	NaClO4	27°C	1.0M	U			K1=-0.10 B2=-0.62	1968SMc	(4442) 4
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Medium: HClO4

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Ac+++	oth	NaClO4	25°C	0.10M	U			K1=2.95	1973MSg	(6694) 5
method:electromigration or transference number										
Ac+++	dis	NaClO4	25°C	0.50M	U			K1=2.72 B2=5.22 B3=7.9	1970ALb	(6695) 6

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Ac+++	dis	NaClO4	27°C	1.0M	U			K1=0.12 B2=0.01	1968SMc	(9565) 7

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OH- HL Hydroxide (57)  
Hydroxide;

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Ac+++ oth NaClO4 RT 0.10M C 1992KNa (10881) 8

\*B3=-31.9

Method: electromigration. Medium: 0.10 M NaClO4/HClO4.

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Ac+++ dis oth/un 25°C 0.10M U 1969MGf (10882) 9

\*K1=-8.5

Medium: LiClO4 with tris-buffer

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Ac+++ sol none ? 0.0 M 1965ZSa (10883) 10

Kso=-18.68(fresh)

Kso=-20.89(aged)

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

Phosphate;

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Ac+++ dis R4N.X 25°C 0.50M U 1970RSd (13080) 11

K(Ac+H2L)=1.59

Medium: NH4ClO4

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

Thiocyanate;

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Ac+++ dis NaClO4 25°C 5.0M U K1=-0.75 B2=-0.46 1969SSa (14798) 12

Ac+++ dis NaClO4 27°C 1.0M U K1=0.05 B2=-0.09 1968RSj (14799) 13

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

Sulfate;

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Ac+++ dis NaClO4 25°C 0.50M U K1=1.75 B2=2.64 1970ALb (15963) 14

Ac+++ dis NaClO4 25°C 1.0M U K1=1.36 B2=2.68 1969SSa (15964) 15

Ac+++ dis NaClO4 27°C 1.0M U K1=1.20 B2=1.85 1968SMc (15965) 16

Medium: HClO4

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C2H2O4 H2L Oxalic acid CAS 144-62-7 (24)

Ethanedioic acid; (COOH)2

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Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
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Ac+++ oth oth/un 25°C 0.10M U K1=4.36 B2=11.44 1972MSh (18774) 17  
Method : electrical migration or transferece number

Ac+++ dis NaClO4 25°C 0.50M U K1=4.47 B2=8.00 1970ALb (18775) 18

Ac+++ dis NaClO4 25°C 1.00M U K1=3.56 B2=6.16 1969SSa (18776) 19

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

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

Ac+++ oth oth/un ? ? U M 1969MGf (46011) 20  
K(AcOH+L)=4.18  
K(AcOH+2L)=7.0  
K(Ac(OH)2+L)=4.3

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

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

Ac+++ oth oth/un ? 0.10M U K1=14.2 1972MSg (73566) 21  
K(AcL+H)=2.45

Method: electrical migration or transference number  
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C12H12N2O2 HL CAS 4173-74-4 (4915)  
1-Phenyl-3-methyl-4-acetylpyrazol-5-one;

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

Ac+++ dis oth/un 25°C 0.10M U B3=6.65 1973BKc (81039) 22

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

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

Ac+++ dis oth/un 25°C 0.10M U B3=14.63 1969Ksa (86868) 23

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

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

Ac+++ oth oth/un 25°C 0.10M U K1=15.7 1972MSh (88571) 24  
Method: electrical migration or transference number.

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