



MASTER

VISCOSITY AND DENSITY TABLES
OF
SODIUM CHLORIDE SOLUTIONS

Compiled by

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COMPILATION OF GEOTHERMAL INFORMATION

The National Geothermal Information Resource (GRID) of the Lawrence Berkeley Laboratory is sponsored by the U.S. Energy Research and Development Administration to develop a comprehensive compilation of worldwide literature and data designed to assist in the research and development of geothermal energy for both electrical and non-electrical uses. Included in this compilation is site-dependent and site-independent material related to geothermal exploration, reservoir engineering, reservoir utilization, physical chemistry, as well as environmental, legal, and economic aspects of geothermal energy. GRID maintains a computerized database which provides the basis for in-depth literature reviews and critical evaluations of the status of data by the technical staff. In addition, computer-produced bibliographies and data tabulations are generated from the databases. The following printouts are available:

Review of geothermal subsidence literature and data to 1975.

Brine chemistry numerical data compilation for selected hot water reservoirs in the United States and Mexico.

Hydrogen sulfide indexed literature compilation. Environmental effects, controls, monitoring methods, environmental standards.

Physical chemistry indexed literature compilation. Thermodynamic and transport properties of NaCl, KCl, and CaCl₂ aqueous solutions, including elevated temperatures and pressures.

East Mesa KGRA indexed literature compilation. Geology, geochemistry, geophysics, well logging, hydrology, and brine reinjection.

Subsidence. Effects, controls, monitoring, soils engineering, and theory.

Nonelectrical applications. Hot water transport, space heating, process heat, metering, and insulation materials.

Magma. Physical properties, distribution and configuration, exploration, materials.

Corrosion and Scaling. Effects, controls, and treatment.



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- Brine chemistry
- Hydrogen sulfide
- Physical chemistry
- East Mesa KGRA
- Subsidence
- Nonelectrical applications
- Magma
- Corrosion and scaling
- Information on updates

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Address _____

Mail to:

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LAWRENCE BERKELEY LABORATORY
University of California
Berkeley, CA 94720 USA



FILE RECORDS

The aqueous solutions file which follows contains tabulated data extracted from the scientific literature to include the following basic properties of aqueous sodium chloride solutions:

Viscosity

Density

Tabulated numerical data is expected to be added for the following other properties:

Enthalpy

Solubility

Specific Heat

Free Energy

Entropy

Electric Conductivity

Activity

Osmotic Coefficient

Thermal Conductivity

UNITS

TEMPERATURE= DEGREES CELSIUS
 CONCENTRATION= MOLALITY
 DENSITY= GR./CC
 VISCOSITY=CENTIPOISE

TEMP.	CONC.	DENS.	VISC.	AUTH.
0	.002000	.9999300	1.787660	JONES 37
0	.005000	1.0000700	1.787660	JONES 37
0	.010000	1.0002900	1.788290	JONES 37
0	.020000	1.0007500	1.789260	JONES 37
0	.050000	1.0020800	1.790770	JONES 37
0	.100000	1.0043500	1.793830	JONES 37
0	.200000	1.0087400	1.799350	JONES 37
0	.505900	1.0219100	1.821060	JONES 37
0	1.021930	1.0430500	1.874560	JONES 37
0	2.089320	1.0835900	2.050580	JONES 37
10.0	.098600	1.0039000	1.314500	LENGYEL 64
10.0	.497100	1.0205000	1.347900	LENGYEL 64
10.0	.986500	1.0400000	1.398100	LENGYEL 64
10.0	1.993000	1.0775000	1.529900	LENGYEL 64
10.0	2.929600	1.1097000	1.697300	LENGYEL 64
10.0	3.486500	1.1279000	1.816200	LENGYEL 64
10.0	3.987300	1.1436000	1.930000	LENGYEL 64
10.0	5.495200	1.1882000	2.383300	LENGYEL 64
10.0	5.802300	1.1968000	2.489200	LENGYEL 64
12.5	.001000	.9994820	1.218810	KAMINSKY 56
12.5	.002000	.9995260	1.218960	KAMINSKY 56
12.5	.005000	.9996569	1.219380	KAMINSKY 56
12.5	.010010	.9998748	1.219950	KAMINSKY 56
12.5	.020020	1.0003120	1.221010	KAMINSKY 56
12.5	.200790	1.0080060	1.237110	KAMINSKY 56
12.5	.403040	1.0163740	1.254730	KAMINSKY 56
12.5	.504730	1.0205080	1.263720	KAMINSKY 56
15.0	.001000	.9991436	1.139280	KAMINSKY 56
15.0	.002000	.9991875	1.139440	KAMINSKY 56
15.0	.005000	.9993174	1.139840	KAMINSKY 56
15.0	.010010	.9995342	1.140400	KAMINSKY 56
15.0	.020020	.9999648	1.141440	KAMINSKY 56
15.0	.200860	1.0075890	1.157380	KAMINSKY 56
15.0	.403170	1.0158850	1.174830	KAMINSKY 56
15.0	.504910	1.0199840	1.183710	KAMINSKY 56

20.0	.098600	1.0023000	1.010100	LENGYEL 64
20.0	.497100	1.0183000	1.042600	LENGYEL 64
20.0	.986500	1.0373000	1.092000	LENGYEL 64
20.0	1.993000	1.0739000	1.198700	LENGYEL 64
20.0	2.929600	1.1056000	1.328100	LENGYEL 64
20.0	3.486500	1.1235000	1.417400	LENGYEL 64
20.0	3.987300	1.1390000	1.505700	LENGYEL 64
20.0	5.495200	1.1830000	1.834500	LENGYEL 64
20.0	5.802300	1.1915000	1.912800	LENGYEL 64
20.0	6.140000	1.2020000	2.040000	POSTNIKOV 70
23.8	.300000	1.0095500	.943000	GAETA 66
23.8	.300000	1.0095500	.943000	GAETA 66
23.8	.300000	1.0095500	.942000	GAETA 66
24.0	2.500000	1.0963200	1.196000	GAETA 66
24.0	2.500000	1.0963200	1.196000	GAETA 66
24.0	2.500000	1.0963200	1.196000	GAETA 66
25.0	.001000	.9970891	.890640	KAMINSKY 56
25.0	.002000	.9971300	.890783	JONES 37
25.0	.002010	.9971309	.890783	KAMINSKY 56
25.0	.005000	.9972500	.891121	JONES 37
25.0	.005020	.9972576	.891130	KAMINSKY 56
25.0	.010000	.9974600	.891700	JONES 37
25.0	.010030	.9974570	.891655	KAMINSKY 56
25.0	.020000	.9978700	.892706	JONES 37
25.0	.020070	.9978847	.892599	KAMINSKY 56
25.0	.050000	.9991000	.895244	JONES 37
25.0	.088800	1.0007000	.898410	DRUCKER 468
25.0	.092900	1.0011700	.899750	NICKELS 37
25.0	.098600	1.0011000	.898700	LENGYEL 64
25.0	.099900	1.0011000	.899000	KOROSI 68
25.0	.100000	1.0011100	.899300	JANZ 70
25.0	.100000	1.0011800	.899259	JONES 37
25.0	.176400	1.0042600	.905270	DRUCKER 468
25.0	.183600	1.0043300	.906610	NICKELS 37
25.0	.200000	1.0052500	.907086	JONES 37
25.0	.201280	1.0052910	.907264	KAMINSKY 56
25.0	.225100	1.0060700	.910170	NICKELS 37
25.0	.349900	1.0112200	.918890	DRUCKER 468
25.0	.404030	1.0133730	.923265	KAMINSKY 56
25.0	.455500	1.0152000	.928060	NICKELS 37
25.0	.497100	1.0169000	.928800	LENGYEL 64
25.0	.500000	1.0172200	.931400	JANZ 70
25.0	.500000	1.0173200	.931385	JONES 37
25.0	.505980	1.0173720	.931385	KAMINSKY 56
25.0	.521500	1.0179800	.932870	DRUCKER 468
25.0	.683900	1.0242600	.946320	DRUCKER 468
25.0	.706900	1.0253000	.947700	KOROSI 68
25.0	.869300	1.0314800	.962430	DRUCKER 468
25.0	.934600	1.0334000	.967690	NICKELS 37
25.0	.986500	1.0357000	.970900	LENGYEL 64
25.0	1.000000	1.0370300	.975900	JANZ 70
25.0	1.000000	1.0370500	.975718	JONES 37
25.0	1.023000	1.0371000	.977700	OSTROFF 69
25.0	1.094000	1.0390000	.981000	EZROKHI 52
25.0	1.202600	1.0438000	.992530	DRUCKER 468
25.0	1.366000	1.0482000	1.003100	NICKELS 37
25.0	1.413800	1.0514000	1.013100	KOROSI 68
25.0	1.963000	1.0676000	1.060510	NICKELS 37
25.0	1.993000	1.0720000	1.073300	LENGYEL 64
25.0	2.043000	1.0754000	1.088000	OSTROFF 69
25.0	2.089300	1.0752400	1.085270	JONES 37
25.0	2.100000	1.0752500	1.085000	JANZ 70

25.0	2.700000	1.0940000	1.160000	EZROKHI 52
25.0	2.849000	1.0949000	1.154200	NICKELS 37
25.0	2.929600	1.1034000	1.188600	LENGYEL 64
25.0	3.114000	1.1021000	1.184100	NICKELS 37
25.0	3.200000	1.1121200	1.228000	JANZ 70
25.0	3.200000	1.1131000	1.230000	OSTROFF 69
25.0	3.486500	1.1212000	1.268300	LENGYEL 64
25.0	3.534500	1.1226000	1.275100	KOROSI 68
25.0	3.987300	1.1366000	1.345500	LENGYEL 64
25.0	4.004000	1.1260000	1.291400	NICKELS 37
25.0	4.300000	1.1440000	1.400000	EZROKHI 52
25.0	4.365000	1.1495000	1.413000	OSTROFF 69
25.0	4.400000	1.1480900	1.407000	JANZ 70
25.0	4.755000	1.1447600	1.392800	NICKELS 37
25.0	5.380000	1.1750000	1.610000	EZROKHI 52
25.0	5.468000	1.1613000	1.495400	NICKELS 37
25.0	5.495200	1.1803000	1.632600	LENGYEL 64
25.0	5.600000	1.1835000	1.654000	JANZ 70
25.0	5.604000	1.1844000	1.657000	OSTROFF 69
25.0	5.802300	1.1888000	1.700000	LENGYEL 64
25.0	5.974000	1.1721000	1.568600	NICKELS 37
25.0	6.150000	1.1960000	1.770000	EZROKHI 52
25.0	6.838000	1.1890000	1.700300	NICKELS 37
30.0	.098600	.9996000	.805000	LENGYEL 64
30.0	.497100	1.1153000	.834800	LENGYEL 64
30.0	.986500	1.0339000	.874300	LENGYEL 64
30.0	1.000000	1.0343900	.882800	SURYANARAYANA 58B
30.0	1.500000	1.0522800	.918700	SURYANARAYANA 58B
30.0	1.993000	1.0699000	.968800	LENGYEL 64
30.0	2.000000	1.0701600	.966600	SURYANARAYANA 58B
30.0	2.500000	1.0867200	1.024000	SURYANARAYANA 58B
30.0	2.929600	1.1012000	1.072500	LENGYEL 64
30.0	3.000000	1.1032700	1.081000	SURYANARAYANA 58B
30.0	3.486500	1.1188000	1.142900	LENGYEL 64
30.0	3.500000	1.1188200	1.144000	SURYANARAYANA 58B
30.0	3.987300	1.1342000	1.212100	LENGYEL 64
30.0	4.000000	1.1343700	1.214000	SURYANARAYANA 58B
30.0	4.500000	1.1490100	1.287000	SURYANARAYANA 58B
30.0	5.000000	1.1636600	1.363000	SURYANARAYANA 58B
30.0	5.495200	1.1777000	1.463300	LENGYEL 64
30.0	5.802300	1.1861000	1.522700	LENGYEL 64
30.0	6.180000	1.1990000	1.610000	POSTNIKOV 70
35.0	.001000	.9940764	.719609	KAMINSKY 56
35.0	.002000	.9941182	.719738	KAMINSKY 56
35.0	.005020	.9942414	.720055	KAMINSKY 56
35.0	.010000	.9944780	.720550	CHACRAVARTI 40
35.0	.010050	.9944432	.720508	KAMINSKY 56
35.0	.020000	.9948700	.721560	CHACRAVARTI 40
35.0	.020120	.9948557	.721357	KAMINSKY 56
35.0	.030000	.9952550	.722350	CHACRAVARTI 40
35.0	.040000	.9956690	.723210	CHACRAVARTI 40
35.0	.050000	.9960760	.724080	CHACRAVARTI 40
35.0	.060000	.9964670	.724870	CHACRAVARTI 40
35.0	.070000	.9968720	.725660	CHACRAVARTI 40
35.0	.201920	1.0021170	.734666	KAMINSKY 56
35.0	.405280	1.0100610	.749090	KAMINSKY 56
35.0	.507550	1.0140060	.756377	KAMINSKY 56
35.0	1.000000	1.0324000	.785600	SURYANARAYANA 58B
35.0	1.500000	1.0501800	.823700	SURYANARAYANA 58B
35.0	2.000000	1.0679600	.868300	SURYANARAYANA 58B
35.0	2.500000	1.0844300	.918700	SURYANARAYANA 58B
35.0	3.000000	1.1009000	.974100	SURYANARAYANA 58B

35.0	3.500000	1.1163800	1.022000	SURYANARAYANA	58B
35.0	4.000000	1.1312500	1.083000	SURYANARAYANA	58B
35.0	4.500000	1.1464300	1.153000	SURYANARAYANA	58B
35.0	5.000000	1.1610100	1.234000	SURYANARAYANA	58B
40.0	.098600	.9961000	.658500	LENGYEL	64
40.0	.099900	.9961000	.660100	KOROSI	68
40.0	.497100	1.0116000	.685300	LENGYEL	64
40.0	.706900	1.0197000	.701600	KOROSI	68
40.0	.986500	1.0299000	.720900	LENGYEL	64
40.0	1.000000	1.0304100	.720800	SURYANARAYANA	58B
40.0	1.094000	1.0330000	.730000	EZROKHI	52
40.0	1.413800	1.0453000	.753900	KOROSI	68
40.0	1.500000	1.0480800	.755400	SURYANARAYANA	58B
40.0	1.993000	1.0655000	.801100	LENGYEL	64
40.0	2.000000	1.0657500	.799100	SURYANARAYANA	58B
40.0	2.500000	1.0821400	.842200	SURYANARAYANA	58B
40.0	2.700000	1.0880000	.868000	EZROKHI	52
40.0	2.929600	1.0964000	.886700	LENGYEL	64
40.0	3.000000	1.0985200	.896400	SURYANARAYANA	58B
40.0	3.486500	1.1139000	.944800	LENGYEL	64
40.0	3.500000	1.1139300	.939500	SURYANARAYANA	58B
40.0	3.534500	1.1154000	.950800	KOROSI	68
40.0	3.987300	1.1291000	1.000000	LENGYEL	64
40.0	4.000000	1.1293300	.999600	SURYANARAYANA	58B
40.0	4.300000	1.1370000	1.040000	EZROKHI	52
40.0	4.500000	1.1438500	1.054000	SURYANARAYANA	58B
40.0	5.000000	1.1583600	1.127000	SURYANARAYANA	58B
40.0	5.380000	1.1670000	1.190000	EZROKHI	52
40.0	5.495200	1.1722000	1.198500	LENGYEL	64
40.0	5.802300	1.1799000	1.244000	LENGYEL	64
40.0	6.150000	1.1890000	1.300000	EZROKHI	52
40.0	6.220000	1.1930000	1.350000	POSTNIKOV	70
42.5	.001000	.9912529	.623643	KAMINSKY	56
42.5	.002010	.9912935	.623780	KAMINSKY	56
42.5	.005030	.9914164	.624080	KAMINSKY	56
42.5	.010080	.9916186	.624504	KAMINSKY	56
42.5	.020170	.9920290	.625289	KAMINSKY	56
42.5	.202480	.9992629	.637821	KAMINSKY	56
42.5	.406460	1.0071740	.651300	KAMINSKY	56
42.5	.509040	1.0110940	.658070	KAMINSKY	56
45.0	1.000000	1.0282300	.659200	SURYANARAYANA	58B
45.0	1.500000	1.0456900	.692000	SURYANARAYANA	58B
45.0	2.000000	1.0632400	.729500	SURYANARAYANA	58B
45.0	2.500000	1.0796000	.770600	SURYANARAYANA	58B
45.0	3.000000	1.0959600	.817700	SURYANARAYANA	58B
45.0	3.500000	1.1113200	.860000	SURYANARAYANA	58B
45.0	4.000000	1.1266800	.907100	SURYANARAYANA	58B
45.0	4.500000	1.1411500	.964900	SURYANARAYANA	58B
45.0	5.000000	1.1556200	1.032000	SURYANARAYANA	58B
50.0	1.000000	1.0258500	.608600	SURYANARAYANA	58B
50.0	1.500000	1.0432900	.638100	SURYANARAYANA	58B
50.0	2.000000	1.0607200	.675300	SURYANARAYANA	58B
50.0	2.500000	1.0770600	.712500	SURYANARAYANA	58B
50.0	3.000000	1.0933900	.754600	SURYANARAYANA	58B
50.0	3.500000	1.1087100	.792300	SURYANARAYANA	58B
50.0	4.000000	1.1240200	.837200	SURYANARAYANA	58B
50.0	4.500000	1.1384500	.886400	SURYANARAYANA	58B
50.0	5.000000	1.1528700	.945400	SURYANARAYANA	58B
50.0	6.280000	1.1880000	1.120000	POSTNIKOV	70
55.0	1.000000	1.0233200	.561000	SURYANARAYANA	58B
55.0	1.500000	1.0407500	.589700	SURYANARAYANA	58B
55.0	2.000000	1.0581700	.622900	SURYANARAYANA	58B

55.0	2.500000	1.0744200	.659200	SURYANARAYANA 588
55.0	3.000000	1.0906600	.696000	SURYANARAYANA 588
55.0	3.500000	1.1059400	.730800	SURYANARAYANA 588
55.0	4.000000	1.1212200	.772600	SURYANARAYANA 588
55.0	4.500000	1.1356300	.819000	SURYANARAYANA 588
55.0	5.000000	1.1500400	.869400	SURYANARAYANA 588
60.0	.099900	.9871000	.472400	KOROSI 68
60.0	.706900	1.0104000	.506100	KOROSI 68
60.0	1.094000	1.0210000	.526000	EZROKHI 52
60.0	1.413800	1.0356000	.546500	KOROSI 68
60.0	2.700000	1.0760000	.629000	EZROKHI 52
60.0	3.534500	1.1047000	.691300	KOROSI 68
60.0	4.300000	1.1260000	.750000	EZROKHI 52
60.0	5.380000	1.1570000	.851000	EZROKHI 52
60.0	6.150000	1.1770000	.926000	EZROKHI 52
60.0	6.350000	1.1850000	.970000	POSTNIKOV 70
70.0	6.430000	1.1800000	.840000	POSTNIKOV 70
75.0	.100100	.9786000	.383600	KOROSI 68
75.0	.708300	1.0016000	.412500	KOROSI 68
75.0	1.416600	1.0272000	.447000	KOROSI 68
75.0	3.540800	1.0969000	.567100	KOROSI 68
80.0	6.510000	1.1760000	.740000	POSTNIKOV 70
100.0	.100400	.9623000	.286900	KOROSI 68
100.0	.710300	.9855000	.309700	KOROSI 68
100.0	1.420700	1.0113000	.337100	KOROSI 68
100.0	3.550200	1.0813000	.429900	KOROSI 68
125.0	.100900	.9434000	.226000	KOROSI 68
125.0	.714400	.9671000	.245200	KOROSI 68
125.0	1.428900	.9935000	.267800	KOROSI 68
125.0	3.568600	1.1644000	.343300	KOROSI 68
150.0	.102000	.9221000	.185800	KOROSI 68
150.0	.721700	.9466000	.202000	KOROSI 68
150.0	1.443800	.9738000	.221300	KOROSI 68
150.0	3.602400	1.0469000	.285200	KOROSI 68



INTRODUCTION

There is a current worldwide research and development program centered around the utilization of geothermal resources for both electrical and non-electrical applications. Scientists and engineers involved in this program require evaluated basic data for the design and modeling of geothermal systems, for example, the thermodynamic and transport properties of aqueous electrolyte solutions at elevated temperatures and pressures. In this context, the National Geothermal Information Resource (GRID) screens the worldwide literature on a continuing basis and compiles material covering aqueous electrolyte solutions. The result of this compilation is maintained as a computerized file system which provides the basis for critical evaluation of the data by GRID. This solutions database is also made available for use by other evaluators as the annotated bibliography contained in the sections which follow this Introduction.

The bibliography is organized by records; a typical record contains the following information: a record number, a short code mnemonic; a category/subcategory mnemonic; title of the publication; author; author affiliation at the time of publication; reference; and key words (descriptors).

This database is the result of an initial screening of the worldwide literature covering the basic properties of solutions relevant to geothermal science and engineering. Other records will be added to the data file on a continuing basis and the reader is urged to communicate important publications to the National Geothermal Information Resource for inclusion in this file.

Sidney L. Phillips
Principal Investigator
National Geothermal Information Resource

A BIBLIOGRAPHY
OF
THE PROPERTIES
OF
AQUEOUS SODIUM CHLORIDE SOLUTIONS

BY

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JANUARY 1, 1977

ADAMS 31B
SOLUTIONS/MISC.

TITLE- THE INFLUENCE OF PRESSURE ON THE SOLUBILITY OF SODIUM CHLORIDE IN WATER. A NEW METHOD FOR THE MEASUREMENT OF THE SOLUBILITIES OF ELECTROLYTES UNDER PRESSURE.

AUTHOR- ADAMS, L.H.; HALL, R.E. [CARNEGIE INSTITUTION OF WASHINGTON, WASHINGTON, D.C. (USA). GEOPHYSICAL LABORATORY].

REFERENCE- J. WASH. ACAD. SCI., V. 21 (9), P. 183-194(1931).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS; ELECTRIC CONDUCTIVITY; SOLUBILITY; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; MODERATE TEMPERATURE; SODIUM CHLORIDES.

ADAMS 32
SOLUTIONS/VOLUMETRIC

TITLE- EQUILIBRIUM IN BINARY SYSTEMS UNDER PRESSURE. II. THE SYSTEM, $K_2SO_4-H_2O$, AT 25C.

AUTHOR- ADAMS, L.H. [CARNEGIE INSTITUTION OF WASHINGTON, WASHINGTON, D.C. (USA). GEOPHYSICAL LABORATORY].

REFERENCE- J. AM. CHEM. SOC., V. 54, P. 2229-2243(1932).

DESCRIPTORS- COMPRESSIBILITY; PIEZOMETERS; PISTON-DISPLACEMENT METHOD; POTASSIUM SULFATES; CHEMICAL POTENTIAL; SOLUBILITY; MELTING POINT; STANDARD TEMPERATURE; ELEVATED CONCENTRATION; STANDARD PRESSURE; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; PARTIAL MOLAL VOLUME; TABLES; GRAPHS; EMPIRICAL EQUATIONS.

ADAMS 31

SOLUTIONS/VOLUMETRIC

TITLE- EQUILIBRIUM IN BINARY SYSTEMS UNDER PRESSURE.
I. AN EXPERIMENTAL AND THERMODYNAMIC
INVESTIGATION OF THE SYSTEM, NaCl-H₂O, AT 25
DEGREES C.

AUTHOR- ADAMS, L.H. [CARNEGIE INSTITUTION OF
WASHINGTON, WASHINGTON, D.C. (USA). GEOPHYSICAL
LABORATORY].

REFERENCE- J. AM. CHEM. SOC., V. 53, P.
3769-3813(1931).

DESCRIPTORS- COMPRESSIBILITY; PIEZOMETERS;
EXPERIMENTAL RESULTS; PISTON-DISPLACEMENT
METHOD; SODIUM CHLORIDES; CHEMICAL POTENTIAL;
SOLUBILITY; MELTING POINT; STANDARD
TEMPERATURE; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; MODERATE
PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE;
PARTIAL MOLAL VOLUME; TABLES; GRAPHS; EMPIRICAL
EQUATIONS.

4

AKERLOF 38
SOLUTIONS/VOLUMETRIC

TITLE- A NOTE ON THE DENSITY OF AQUEOUS SOLUTIONS OF
HYDROCHLORIC ACID.

AUTHOR- AKERLOF, G.; TEARE, J. [YALE UNIV., NEW
HAVEN, CONN. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 60, P.
1226-1228(1938).

DESCRIPTORS- DENSITY; APPARENT MOLAL VOLUME; HIGH
CONCENTRATION; LOW TEMPERATURE; MODERATE
TEMPERATURE; STANDARD PRESSURE; TABLES; GRAPHS;
EMPIRICAL EQUATIONS; HYDROCHLORIC ACID.

5

ADAMS 74
SOLUTIONS/VOLUMETRIC

TITLE- AN AUTOMATED APPARATUS FOR PRECISION DENSITY
MEASUREMENTS OF LIQUIDS.

AUTHOR- ADAMS, W.A. [DEPARTMENT OF THE ENVIRONMENT,
OTTAWA, ONTARIO (CANADA). INLAND WATERS
DIRECTORATE, WATER SCIENCE SUBDIVISION].

CHRISTIE, R.O.;KRUUS, J. [DEPARTMENT OF THE ENVIRONMENT, OTTAWA, ONTARIO (CANADA). GLACIOLOGY DIVISION].

YANK, R. [ALUMINUM COMPANY OF CANADA LTD., MONTREAL (CANADA)].

REFERENCE- CAN. J. CHEM. ENG., V. 52, P. 121-124(1974).

DESCRIPTORS- DENSITY; APPARENT MOLAL VOLUME; EXPERIMENTAL RESULTS; PARTIAL MOLAL VOLUME; MEASURING INSTRUMENTS; SODIUM CHLORIDES; STANDARD PRESSURE; STANDARD TEMPERATURE; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; TABLES; EMPIRICAL EQUATIONS.

6

AKERLOF 39
SOLUTIONS/VOLUMETRIC

TITLE- THE DENSITY OF AQUEOUS SOLUTIONS OF SODIUM HYDROXIDE.

AUTHOR- AKERLOF, G.;KEGELES, G. [YALE UNIV., NEW HAVEN, CONN. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 61, P. 1027-1032(1939).

DESCRIPTORS- DENSITY; APPARENT MOLAL VOLUME; PYCNOMETERS; SODIUM HYDROXIDES; HIGH CONCENTRATION; STANDARD PRESSURE; LOW TEMPERATURE; MODERATE TEMPERATURE; GRAPHS; TABLES; EMPIRICAL EQUATIONS.

7

AKERLOF 41
SOLUTIONS/VOLUMETRIC

TITLE- THE DENSITY OF AQUEOUS SOLUTIONS OF POTASSIUM HYDROXIDE.

AUTHOR- AKERLOF, G.;BENDER, P. [YALE UNIV., NEW HAVEN, CONN. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 63, P. 1085-1088(1941).

DESCRIPTORS- DENSITY; APPARENT MOLAL VOLUME; PYCNOMETERS; POTASSIUM HYDROXIDES; HIGH

CONCENTRATION; ELEVATED CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE; STANDARD
PRESSURE; GRAPHS; TABLES; EMPIRICAL EQUATIONS.

8

ALLAM 66
SOLUTIONS/VOLUMETRIC

TITLE- ULTRASONIC STUDIES OF ELECTROLYTE SOLUTIONS.
PART II. COMPRESSIBILITIES OF ELECTROLYTES.

AUTHOR- ALLAM, D.S.; LEE, W.H. [BATTERSEA COLL. OF
TECHNOLOGY, LONDON (UK)].

REFERENCE- J. CHEM. SOC. A, V. 1966, P. 5-9(1966).

DESCRIPTORS- COMPRESSIBILITY; EXPERIMENTAL RESULTS;
HYDRATION NUMBER; POTASSIUM CHLORIDES;
POTASSIUM BROMIDES; POTASSIUM IODIDES; SODIUM
CHLORIDES; STANDARD TEMPERATURE; STANDARD
PRESSURE; ELEVATED CONCENTRATION; HIGH
CONCENTRATION.

9

ANDERSON 70
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF MIXING. I. TEMPERATURE DEPENDENCE OF
AQUEOUS ELECTROLYTES WITH A COMMON ANION.

AUTHOR- ANDERSON, H.L.; PETREE, L.A. [NORTH CAROLINA
UNIV., GREENSBORO (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 74(7),
1455-1459(1970).

DESCRIPTORS- MIXING HEAT; MIXING FREE ENERGY;
EXPERIMENTAL RESULTS; MIXING ENTROPY; MIXING
HEAT; SODIUM CHLORIDES; LITHIUM CHLORIDES;
POTASSIUM CHLORIDES; HYDROCHLORIC ACID;
TETRAMETHYLAMMONIUM CHLORIDES; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; STANDARD
PRESSURE; ELEVATED CONCENTRATION; TABLES;
GRAPHS; EMPIRICAL EQUATIONS.

10

ANDROSOV 72

SOLUTIONS/VOLUMETRIC

TITLE- TEMPERATURE VARIATION OF THE SPECIFIC VOLUMES
OF DILUTE POTASSIUM CHLORIDE SOLUTIONS.

AUTHOR- ANDROSOV, V.I.;GORBACHEV, S.V.;KONDRAT'EV,
V.P.;SOBOLEVA, R.A. [MENDELEEV MOSCOW INSTITUTE
OF CHEMICAL ENGINEERING (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 46(2), P.
311(1972). TRANSLATED FROM ZH. FIZ. KHIM., V.
46 (2), P. 533-534 (1972).

DESCRIPTORS- DENSITY; POTASSIUM CHLORIDES;
PYCNOMETERS; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE.

11

AUSLANDER 70
SOLUTIONS/VOLUMETRIC

TITLE- COMPRESSIBILITY OF AQUEOUS SOLUTIONS OF SOME
HALOGENS. III. - ALKALINE EARTH CHLORIDES. (IN
FRENCH). COMPRESSIBILITE DES SOLUTIONS
AQUEUSES DE QUELQUES HALOGENES. III. -
CHLORURES DES METAUX ALCALINO-TERREUX.

AUTHOR- AUSLANDER, D.;ONITIU, L. [BABES-BOLYAI
UNIV., CLUJ (ROMANIA)].

REFERENCE- J. CHIM. PHYS., V. 67, P.
1557-1562(1970).

DESCRIPTORS- COMPRESSIBILITY; MAGNESIUM CHLORIDES;
EXPERIMENTAL RESULTS; CALCIUM CHLORIDES;
STRONTIUM CHLORIDES; BARIUM CHLORIDES; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; GRAPHS.

12

BARANOWSKI 57
SOLUTIONS/VOLUMETRIC

TITLE- STUDY OF SELECTIVE SOLUTIONS BY SOUND
VELOCITY AND COMPRESSIBILITY MEASUREMENTS. (IN
GERMAN). UNTERSUCHUNG DER AUSWAHLENDEN
SOLVATATION MIT HILFE VON
SCHALLGESCHWINDIGKEITS-UND
KOMPRESSIBILITÄTSMESSUNGEN.

AUTHOR- BARANOWSKI, B.; JACOB, H.P.; SARNOWSKI, M.
[INSTITUTE FUR THEORETISCHE PHYSIK DER
UNIVERSITAT, ROSTOCK (POLAND); INSTITUTE FUR
CHEMISCHE SYNTHESE, TARNOW (POLAND)].

REFERENCE- NATURWISSENSCHAFTEN, V. 44, P.
30-31(1957).

DESCRIPTORS- DENSITY; COMPRESSIBILITY; PYCNOMETERS;
CALCIUM CHLORIDES; STANDARD TEMPERATURE;
STANDARD PRESSURE; HIGH CONCENTRATION; GRAPHS.

13

BATUECAS 67B
SOLUTIONS/VOLUMETRIC

TITLE- EXPERIMENTAL INVESTIGATION ON AQUEOUS
SOLUTIONS OF STRONG ELECTROLYTES. III.
DENSITIES APPARENT MOLAL VOLUMES, AND PARTIAL
MOLAL VOLUMES OF NO Cl AT 25 DEG. AND
CONCENTRATIONS IN THE INTERVAL 0.5-0.1 MOLAR.
(IN SPANISH). INVESTIGACIONES EXPERIMENTALES
SOBRE DISOLUCIONES ACUOSAS DE ELETROLITOS
FUERTES-III-. DENSIDADES, <<VOLUMENES
APARENTES>> Y <<VOLUMENES PARCIALES
MOLECULARES>>, A 25C Y CONCENTRACIONES EN EL
INTERVALO - 0.5-0.1 M DEL ClNa .

AUTHOR- BATUECAS, T.; MEIJON, C.

REFERENCE- REV. REAL ACAD. CIENC., V. 61, P.
563-571(1967).

DESCRIPTORS- DENSITY; APPARENT MOLAL VOLUME;
EXPERIMENTAL RESULTS; PARTIAL MOLAL VOLUME;
PYCNOMETERS; SODIUM CHLORIDES; STANDARD
TEMPERATURE; STANDARD PRESSURE; ELEVATED
CONCENTRATION; TABLES; EMPIRICAL EQUATIONS.

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BATUECAS 67
SOLUTIONS/VOLUMETRIC

TITLE- EXPERIMENTAL INVESTIGATION ON AQUEOUS
SOLUTIONS OF STRONG ELECTROLYTES. II.
DENSITIES, APPARENT MOLAL VOLUMES, AND PARTIAL
MOLAL VOLUMES OF KCl , NaCl , KBr AT 25 DEG. AND
CONCENTRATIONS IN THE INTERVAL 0.5 TO 0.02
MOLAR. (IN SPANISH). INVESTIGACIONES
EXPERIMENTALES SOBRE DISOLUCIONES ACUOSAS DE
ELECTROLITOS FUERTES-II- DENSIDADES,
<<VOLUMENES APARENTES>> Y <<VOLUMENES PARCIALES

MOLECULARES>>, A 25 C Y CONCENTRACIONES EN EL
INTERVALO, 0.5-0.02 MODEL CLK, BRNA Y BRK.

AUTHOR- BATUECAS, T.;VARELA, C.

REFERENCE- REV. REAL ACAD. CIENC., V. 61, P.
189-211(1967).

DESCRIPTORS- DENSITY; APPARENT MOLAL VOLUME;
EXPERIMENTAL RESULTS; PARTIAL MOLAL VOLUME;
PYCNOMETERS; POTASSIUM CHLORIDES; POTASSIUM
BROMIDES; SODIUM BROMIDES; STANDARD
TEMPERATURE; STANDARD PRESSURE; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; TABLES;
EMPIRICAL EQUATIONS.

15

BECSEY 71
SOLUTIONS/MISC.

TITLE- HOLOGRAM INTERFEROMETRY FOR ISOTHERMAL
DIFFUSION MEASUREMENTS.

AUTHOR- BECSEY, J.G.;JACKSON, N.R.;BIERLEIN, J.A.
[AEROSPACE RESEARCH LABS., WRIGHT-PATTERSON
AFB, OHIO (USA)].

REFERENCE- J. PHYS. CHEM., V. 75(21), P.
3374-3376(1971).

DESCRIPTORS- DEUTERIUM OXIDES; DIFFUSIVITY;
POTASSIUM CHLORIDES; CADMIUM IODIDES;
EXPERIMENTAL RESULTS; STANDARD TEMPERATURE;
STANDARD PRESSURE; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HEAVY WATER.

16

BECKER 69
SOLUTIONS/MISC.

TITLE- DEUTERIUM OXIDE VAPOR PRESSURES OF SATURATED
SALT SOLUTIONS. (IN GERMAN). D2O-DAMPFDRUCKE
GESATTIGTER SALZLOSUNGEN.

AUTHOR- BECKER, M.;SCHALIKE, W.;ZIRWER, D.
[DEUTSCHEN AKADEMIE DER WISSENSCHAFTEN ZU
BERLIN (GERMAN DEMOCRATIC REPUBLIC). INST. FUER
BIOPHYSIK].

REFERENCE- Z. NATURFORSCH. A, V. 24(4),
684-685(1969).

DESCRIPTORS- DEUTERIUM OXIDES; VAPOR PRESSURE; HEAVY WATER; EXPERIMENTAL RESULTS; POTASSIUM NITRATES; POTASSIUM CHLORIDES; SODIUM CHLORIDES; SODIUM BROMIDES; LITHIUM CHLORIDES; STANDARD TEMPERATURE; LOW TEMPERATURE; MODERATE TEMPERATURE; TABLES; GRAPHS.

17

BELL 70
SOLUTIONS/VOLUMETRIC

TITLE- DENSITIES OF AQUEOUS KCL AND UO₂SO₄ FROM 25 DEG. TO 374 DEG..

AUTHOR- BELL, J.T.; HELTON, D.M. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

ROGERS, T.G. [CALIFORNIA UNIV., RIVERSIDE (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. ENG. DATA, V. 15(1), P. 44-46(1970).

DESCRIPTORS- POTASSIUM CHLORIDES; URANIUM COMPOUNDS; EXPERIMENTAL RESULTS; DILATOMETERS; DENSITY; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; STANDARD PRESSURE; MODERATE PRESSURE; ELEVATED PRESSURE; ELEVATED CONCENTRATION; HIGH CONCENTRATION; GRAPHS; TABLES.

18

BENSON 53
SOLUTIONS/VOLUMETRIC

TITLE- MOLAL VOLUMES AND COMPRESSIBILITIES OF THE SYSTEM NaCl-H₂O ABOVE THE CRITICAL TEMPERATURE OF WATER.

AUTHOR- BENSON, S.W.; COPELAND, C.S.; PEARSON, D. [UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. PHYS., V. 21(12), P. 2208-2212(1953).

DESCRIPTORS- APPARENT MOLAL VOLUME; PARTIAL MOLAL VOLUME; EXPERIMENTAL RESULTS; COMPRESSIBILITY; DENSITY; SODIUM CHLORIDES; ELEVATED TEMPERATURE; ELEVATED PRESSURE; MODERATE CONCENTRATION; TABLES; GRAPHS.

BESHINSKE 69

TITLE- MONTE CARLO CALCULATION OF SOME THERMODYNAMIC PROPERTIES OF STEAM USING A DIPOLE-QUADRUPOLE POTENTIAL.

AUTHOR- BESHINSKE, R.J. [SAINT JOHNS UNIV., NEW YORK, N.Y. (USA). DEPT. OF CHEMISTRY].

LIETZKE, M.H. [OAK RIDGE NATIONAL LAB., TENN. (USA); OAK RIDGE NATIONAL LAB., TENN. (USA). CHEMISTRY DIVISION].

REFERENCE- J. CHEM. PHYS., V. 51(5), P. 2278-2279(1969).

DESCRIPTORS- DENSITY; WATER; ELEVATED TEMPERATURE; THEORETICAL TREATMENTS; TABLES.

BHIMASENACHAR 57
SOLUTIONS/VOLUMETRIC

TITLE- COMPRESSIBILITIES OF SODIUM AND POTASSIUM HYDROXIDES.

AUTHOR- BHIMASENACHAR, J.; SUBRAHMANYAM, S.V. [SRI VENKATESWARA UNIV., TIRUPATI (INDIA)].

REFERENCE- NATURE, V. 179(4560), P. 627-628(1957).

DESCRIPTORS- SODIUM HYDROXIDES; POTASSIUM HYDROXIDES; COMPRESSIBILITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; GRAPHS; EMPIRICAL EQUATIONS.

BHIMASENACHAR 57B
SOLUTIONS/VOLUMETRIC

TITLE- COMPRESSIBILITIES OF MINERAL ACIDS.

AUTHOR- BHIMASENACHAR, J.; SUBRAHMANYAM, S.V. [SRI VENKATESWARA UNIV., TIRUPATI (INDIA)].

REFERENCE- J. ACOUST. SOC. AM., V. 29(8), P.

899-901(1957).

DESCRIPTORS- HYDROCHLORIC ACID; SULFURIC ACID;
NITRIC ACID; MODERATE TEMPERATURE; STANDARD
PRESSURE; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION;
COMPRESSIBILITY.

22

BIEN 67
SOLUTIONS/THERMODYNAMICS

TITLE- CORRESPONDING STATES OF AQUEOUS SALT
SOLUTIONS.

AUTHOR- BIEN, P.B. [OAK RIDGE NATIONAL LAB., TENN.
(USA)].

REFERENCE- J. PHYS. CHEM., V. 71(8), P.
2731-2733(1967).

DESCRIPTORS- SODIUM CHLORIDES; EXPERIMENTAL RESULTS;
WATER; VAPORIZATION HEAT; VAPOR PRESSURE; HIGH
CONCENTRATION; ELEVATED TEMPERATURE; MODERATE
PRESSURE; TABLES; GRAPHS; EMPIRICAL EQUATIONS.

23

BILLI 74

TITLE- MOLAL VOLUMES OF K_2SO_4 , $K_3Fe(CN)_6$, AND
 $K_4Fe(CN)_6$ IN WATER AND IN SOLUTIONS OF NaCl.

AUTHOR- BILLI, A.; MALATESTA, F.; ZAMBONI, R. [PISA
UNIV. (ITALY)].

INDELLI, A. [BOLOGNA UNIV. (ITALY)].

REFERENCE- J. CHEM. PHYS., V. 61(11), P.
4787-4792(1974).

DESCRIPTORS- POTASSIUM SULFATES; SODIUM CHLORIDES;
PYCNOMETERS; DILATOMETERS; STANDARD PRESSURE;
MODERATE CONCENTRATION; STANDARD TEMPERATURE;
TABLES; GRAPHS; EMPIRICAL EQUATIONS; DENSITY;
APPARENT MOLAL VOLUME.

24

TITLE- THE EFFECT OF A MAGNETIC FIELD ON THE
ELECTRICAL CONDUCTIVITY OF WATER AND AQUEOUS
SOLUTIONS OF ELECTROLYTES.

AUTHOR- BLYUMENFEL'D, L.A.; GOL'DFELD, M.G. [ACADEMY
OF SCIENCES OF THE USSR. INSTITUTE OF CHEMICAL
PHYSICS].

REFERENCE- J. STRUCT. CHEM. (USSR), V. 9(3), P.
316-320(1968). TRANSLATED FROM ZH. STRUKT.
KHIM., V.9 (3) P. 379-384 (1968).

DESCRIPTORS- LOW TEMPERATURE; LOW CONCENTRATION;
WATER; POTASSIUM CHLORIDES; STANDARD PRESSURE;
ELECTRIC CONDUCTIVITY; MAGNETIC FIELDS; GRAPHS.

25

TITLE- THE STUDY OF IONIC SOLVATION.

AUTHOR- BOCKRIS, J.O'M.; SALUJA, P.P.S.; MADAN, G.L.
[PENNSYLVANIA UNIV., PHILADELPHIA (USA)].

REFERENCE- THE STUDY OF IONIC SOLVATION. NO. 569,
U.S. OFF. SALINE WATER, RES. DEV. PROG. REP.,
1970, 155 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; COMPRESSIBILITY;
DENSITY; HYDRATION NUMBER; VELOCITY OF SOUND;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; MEASURING INSTRUMENTS;
ELECTROLYTES; IONS; BARIUM CHLORIDES; CALCIUM
CHLORIDES; CESIUM CHLORIDES; LITHIUM CHLORIDES;
MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES;
SODIUM BROMIDES; SODIUM CHLORIDES; SODIUM
FLUORIDES; SODIUM IODIDES.

26

TITLE- APPROXIMATE CALCULATIONS OF THE HEATS AND
ENTROPIES OF HYDRATION ACCORDING TO VARIOUS
MODELS.

AUTHOR- BOCHRIS, J.O'M.; SALUJA, P.P.S. [PENNSYLVANIA UNIV., PHILADELPHIA (USA). DEPT. OF CHEMISTRY; PENNSYLVANIA UNIV., PHILADELPHIA (USA). ELECTROCHEMISTRY LAB.J.

REFERENCE- J. PHYS. CHEM., V. 76(16), P. 2298-2310(1972).

DESCRIPTORS- IONS; ENTHALPY; HYDRATION; ENTROPY; TABLES; GRAPHS; EMPIRICAL EQUATIONS.

27

BODANSZKY 62
SOLUTIONS/VOLUMETRIC

TITLE- THE APPARENT MOLAR VOLUME OF SODIUM HYDROXIDE AT INFINITE DILUTION AND THE VOLUME CHANGE ACCOMPANYING THE IONIZATION OF WATER.

AUTHOR- BODANSZKY, A.; KAUZMANN, W. [PRINCETON UNIV., N.J. (USA). FRICK CHEMICAL LAB].

REFERENCE- J. PHYS. CHEM., V. 66, P. 177-179(1962).

DESCRIPTORS- APPARENT MOLAL VOLUME; DILATOMETERS; SODIUM HYDROXIDES; SODIUM CHLORIDES; POTASSIUM CHLORIDES; HYDROCHLORIC ACID; STANDARD TEMPERATURE; WATER; STANDARD PRESSURE; ELEVATED CONCENTRATION; EMPIRICAL EQUATIONS; GRAPHS.

28

BOGATYKH 65
SOLUTIONS/VOLUMETRIC

TITLE- INVESTIGATION OF DENSITIES OF AQUEOUS LiBr, LiCl, AND CaCl₂ SOLUTIONS IN RELATION TO CONDITIONS OF GAS DRYING.

AUTHOR- BOGATYKH, S.A.; EVNOVICH, I.D.

REFERENCE- J. APPL. CHEM. USSR, V. 38(4), P. 932-933(1965). TRANSLATED FROM ZH. PRIKL. KHIM., V. 38 (4), P. 945-946 (1965).

DESCRIPTORS- AREOMETER; LITHIUM BROMIDES; LITHIUM CHLORIDES; EXPERIMENTAL RESULTS; CALCIUM CHLORIDES; DENSITY; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; HYDROMETERS; TABLES; HIGH CONCENTRATION.

BREMNER 38
SOLUTIONS/VOLUMETRIC

TITLE- SPECIFIC GRAVITIES OF PURE AND MIXED SALT
SOLUTIONS IN TEMPERATURE RANGE 0 TO 25 DEG..

AUTHOR- BREMNER, R.W.; THOMPSON, T.G.; UTTERBACK, C.L.
[WASHINGTON UNIV., SEATTLE (USA). CHEMICAL AND
OCEANOGRAPHIC LABORATORIES].

REFERENCE- J. AM. CHEM. SOC., V. 60, P.
2616-2618(1938).

DESCRIPTORS- MODERATE CONCENTRATION; EXPERIMENTAL
RESULTS; ELEVATED CONCENTRATION; SODIUM
CHLORIDES; POTASSIUM CHLORIDES; MAGNESIUM
SULFATES; LOW TEMPERATURE; STANDARD
TEMPERATURE; STANDARD PRESSURE; DENSITY;
TABLES; EMPIRICAL EQUATIONS; HYDROSTATIC
WEIGHING.

BROMLEY 66
SOLUTIONS/THERMODYNAMICS

TITLE- PROPERTIES OF SEA WATER AND ITS CONCENTRATES
UP TO 200 DEGREES C.

AUTHOR- BROMLEY, L.A. [CALIFORNIA UNIV., LA JOLLA,
SAN DIEGO (USA)].

REFERENCE- PROPERTIES OF SEA WATER AND ITS
CONCENTRATES UP TO 200 DEGREES C. NO. 227,
U.S. OFF. SALINE WATER, RES. DEV. PROG. REP.,
1966, 54 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; SPECIFIC
HEAT; MEASURING INSTRUMENTS; CALORIMETERS; SEA
WATER; MAGNESIUM CHLORIDES; SODIUM CHLORIDES;
WATER.

TITLE- AQUEOUS SOLUTIONS UNDER EXTREME CONDITIONS.

I. HIGH PRESSURES. CHAPTER 19.

AUTHOR- BRUMMER, S.B.; GANCY, A.B.

HORNE, R.A. (ED.)

REFERENCE- WATER AND AQUEOUS SOLUTIONS. STRUCTURE, THERMODYNAMICS, AND TRANSPORT PROCESSES. WILEY-INTERSCIENCE, NEW YORK, 1972, P. 745-770.

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; ELECTRIC CONDUCTIVITY; MODERATE CONCENTRATION; ELEVATED PRESSURE; HIGH PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

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BUTLER 68
SOLUTIONS/THERMODYNAMICS

TITLE- THE USE OF AMALGAM ELECTRODES TO MEASURE ACTIVITY COEFFICIENTS OF METAL SALTS IN MULTICOMPONENT SALT SOLUTIONS.

AUTHOR- BUTLER, J.N.

REFERENCE- THE USE OF AMALGAM ELECTRODES TO MEASURE ACTIVITY COEFFICIENTS OF METAL SALTS IN MULTICOMPONENT SALT SOLUTIONS. NO. 388, U.S. OFF. SALINE WATER, RES. DEV. PROG. REP., 1968, 175 P..

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; GRAPHS; TABLES; SOLUBILITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; ACTIVITY COEFFICIENT; ELECTROMOTIVE FORCE; ELECTROLYTES; BARIUM CHLORIDES; CALCIUM CHLORIDES; LITHIUM CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES; SODIUM SULFATES; SILVER CHLORIDES.

33

CANTELO 33
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL MOLAL VOLUMES OF COBALT SULFATE AND

OF CADMIUM IODIDE.

AUTHOR- CANTELO, R.C.; PHIFER, H.E. [CINCINNATI UNIV., OHIO (USA). COLLEGE OF LIBERAL ARTS, DEPARTMENT OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 55, P. 1333-1338(1933).

DESCRIPTORS- DENSITY; PARTIAL MOLAL VOLUME; COBALT SULFATES; POTASSIUM CHLORIDES; CADMIUM IODIDES; LOW CONCENTRATION; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; STANDARD PRESSURE; TABLES; GRAPHS; EMPIRICAL EQUATIONS.

34

CARMAN 69
SOLUTIONS/MISC.

TITLE- TRANSPORT IN CONCENTRATED SOLUTIONS OF 1/1 ELECTROLYTES.

AUTHOR- CARMAN, P.C. [NATIONAL CHEMICAL RESEARCH LAB., PRETORIA (SOUTH AFRICA)].

REFERENCE- J. PHYS. CHEM., V. 73(4), P. 1095-1105(1969).

DESCRIPTORS- DIFFUSION; ELECTRIC CONDUCTIVITY; HYDRATION NUMBER; SODIUM CHLORIDES; POTASSIUM CHLORIDES; LITHIUM CHLORIDES; VISCOSITY; TRANSFERENCE NUMBER; HYDROCHLORIC ACID; STANDARD TEMPERATURE; ELEVATED CONCENTRATION; HIGH CONCENTRATION.

35

CHAPMAN 67
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- THE TRANSPORT PROPERTIES OF CONCENTRATED ELECTROLYTE SOLUTIONS.

AUTHOR- CHAPMAN, T.W.

REFERENCE- THE TRANSPORT PROPERTIES OF CONCENTRATED ELECTROLYTE SOLUTIONS. PH. D. THESIS, UCRL-17768, LAWRENCE BERKELEY LABORATORY, BERKELEY, CA, 1967, 203 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;

DENSITY; DIFFUSION; TRANSFERENCE NUMBER;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; IONS; BARIUM CHLORIDES; CALCIUM
CHLORIDES; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

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CHAPMAN 68
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- A COMPILATION OF SELECTED THERMODYNAMIC AND
TRANSPORT PROPERTIES OF BINARY ELECTROLYTES IN
AQUEOUS SOLUTION.

AUTHOR- CHAPMAN, T.W.; NEWMAN, J. [CALIFORNIA UNIV.,
BERKELEY (USA). LAWRENCE BERKELEY LAB.].

REFERENCE- A COMPILATION OF SELECTED THERMODYNAMIC
AND TRANSPORT PROPERTIES OF BINARY ELECTROLYTES
IN AQUEOUS SOLUTION. UCRL-17767, LAWRENCE
BERKELEY LABORATORY, BERKELEY, CA, 1968, 263

DESCRIPTORS- VISCOSITY; DENSITY; ELECTRIC
CONDUCTIVITY; TRANSFERENCE NUMBER; DIFFUSION;
ACTIVITY COEFFICIENT; SODIUM CHLORIDES; CALCIUM
CHLORIDES; POTASSIUM CHLORIDES; MAGNESIUM
CHLORIDES; TABLES; ELECTROLYTES.

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CHIU 68
SOLUTIONS/MISC.

TITLE- CONDUCTANCE OF THE ALKALI HALIDES. XII.
SODIUM AND POTASSIUM CHLORIDES IN WATER AT 25
DEG..

AUTHOR- CHIU, Y.C.; FUOSS, R.M. [YALE UNIV., NEW
HAVEN, CONN. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 72 (12), P.
4123-4129(1968).

DESCRIPTORS- ELECTRIC CONDUCTIVITY; EXPERIMENTAL
RESULTS; SODIUM CHLORIDES; POTASSIUM CHLORIDES;
STANDARD TEMPERATURE; STANDARD PRESSURE; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; TABLES; GRAPHS; EMPIRICAL
EQUATIONS.

CHOI 73
SOLUTIONS/VOLUMETRIC

TITLE- THE PARTIAL MOLAL VOLUMES OF SOME
REPRESENTATIVE SOLUTES IN H₂O AND D₂O.

AUTHOR- CHOI, Y.S.; BONNER, O.D. [SOUTH CAROLINA
UNIV., COLUMBIA (USA). DEPT. OF CHEMISTRY].

REFERENCE- Z. PHYS. CHEM. NEUE FOLGE, V. 87, P.
188-197(1973).

DESCRIPTORS- WATER; SODIUM CHLORIDES; POTASSIUM
CHLORIDES; LITHIUM CHLORIDES; ELECTROLYTES;
PARTIAL MOLAL VOLUME; APPARENT MOLAL VOLUME;
LOW CONCENTRATION; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; STANDARD PRESSURE; HEAVY WATER.

CHURAGULOV 74
SOLUTIONS/MISC.

TITLE- EFFECT OF PRESSURE ON THE SOLUBILITY OF SALTS
IN WATER.

AUTHOR- CHURAGULOV, B.R.; KALASHNIKOV,
YA.A.; KOVALENKO, YU. A. [LOMCNOSOV MOSCOW STATE
UNIV. (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 48 (11), P.
1648-1649(1974). TRANSLATED FROM ZH. FIZ.
KHIM., V. 48, P. 2802-2804 (1974).

DESCRIPTORS- SOLUBILITY; SODIUM CHLORIDES; POTASSIUM
SULFATES; ELECTROLYTES; STANDARD TEMPERATURE;
STANDARD PRESSURE; MODERATE PRESSURE; ELEVATED
PRESSURE; HIGH PRESSURE; HIGH CONCENTRATION;
TABLES; GRAPHS.

COCCO 71
SOLUTIONS/MISC.

TITLE- HIGH PRECISION AND ACCURACY EBULLIOSCOPIC MEASUREMENTS FOR A CLOSER STRUCTURAL EXAMINATION OF CONCENTRATED SOLUTIONS OF STRONG ELECTROLYTES.

AUTHOR- COCCO, G.; DEJAK, C. [VENICE UNIV. (ITALY). ISTITUTO DI CHIMICA FISICA].

DEVOTO, O. [CAGLIARI UNIV. (ITALY). ISTITUTO CHIMICO POLICATTEDRA].

REFERENCE- CHEM. PHYS. LETT., V. 11 (2), P. 198-202(1971).

DESCRIPTORS- BOILING POINT; EBULLIOSCOPES; POTASSIUM CHLORIDES; STANDARD PRESSURE; EXPERIMENTAL RESULTS; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; GRAPHS; TABLES; EMPIRICAL EQUATIONS.

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CONWAY 68
SOLUTIONS/VOLUMETRIC

TITLE- H₂O-D₂O ISOTOPE EFFECT IN PARTIAL MOLAL VOLUMES OF ALKALI METAL AND TETRAALKYLAMMONIUM SALTS.

AUTHOR- CONWAY, B.E.; LALIBERTE, L.H. [OTTAWA UNIV., ONTARIO (CANADA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 72 (12), P. 4317-4320(1968).

DESCRIPTORS- APPARENT MOLAL VOLUME; WATER; SODIUM FLUORIDES; SODIUM CHLORIDES; SODIUM BROMIDES; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; STANDARD PRESSURE; TABLES; GRAPHS; EMPIRICAL EQUATIONS; HEAVY

42

CONWAY 70
SOLUTIONS/VOLUMETRIC

TITLE- H₂O-D₂O SOLVENT ISOTOPE EFFECTS IN THE VOLUME AND EXPANSIVITY BEHAVIOR OF SOME ORGANIC AND INORGANIC IONS.

AUTHOR- CONWAY, B.E.; LALIBERTE, L.H. [OTTAWA UNIV., ONTARIO (CANADA). DEPT. OF CHEMISTRY].

REFERENCE- TRANS. FARADAY SOC., V. 66 (12), P.
3032-3047(1970).

DESCRIPTORS- DILATOMETERS; EXPERIMENTAL RESULTS;
DIFFERENTIAL BALANCES; APPARENT MOLAL VOLUME;
WATER; THERMAL EXPANSIVITY; DENSITY; SODIUM
FLUORIDES; SODIUM CHLORIDES; POTASSIUM
CHLORIDES; POTASSIUM BROMIDES; TABLES; GRAPHS;
EMPIRICAL EQUATIONS; PARTIAL MOLAL VOLUME;
STANDARD TEMPERATURE; STANDARD PRESSURE; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HEAVY WATER.

43

COPELAND 53
SOLUTIONS/VOLUMETRIC

TITLE- THE SYSTEM NaCl-H₂O AT SUPERCRITICAL
TEMPERATURES AND PRESSURES.

AUTHOR- COPELAND, C.S.; SILVERMAN, J.; BENSON, S.W.
[UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES
(USA). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. PHYS., V. 21 (1), P.
12-16(1953).

DESCRIPTORS- DENSITY; PARTIAL MOLAL VOLUME;
EXPERIMENTAL RESULTS; SODIUM CHLORIDES;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
ELEVATED PRESSURE; ELEVATED TEMPERATURE;
GRAPHS; TABLES.

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CORNEC 32
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- EQUILIBRIUM BETWEEN POTASSIUM CHLORIDE,
SODIUM CHLORIDE AND WATER FROM -23 TO +190
DEG.. (IN FRENCH). EQUILIBRES ENTRE LE
CHLORURE DE POTASSIUM, LE CHLORURE DE SODIUM ET
L'EAU DEPUIS -23 JUSQU'A +190.

AUTHOR- CORNEC, E.; KROMBACH, H.

REFERENCE- ANN. CHIM. (PARIS), V. 18, P. 5-31(1932).

DESCRIPTORS- DENSITY; SOLUBILITY; SODIUM CHLORIDES;
POTASSIUM CHLORIDES; STANDARD PRESSURE; HIGH
CONCENTRATION; ELEVATED CONCENTRATION; MODERATE
PRESSURE; AUTOCLAVES; LOW TEMPERATURE; MODERATE

TEMPERATURE; ELEVATED TEMPERATURE; TABLES;
GRAPHS.

45

COUTURE 56
SOLUTIONS/VOLUMETRIC

TITLE- THE PARTIAL MOLAL VOLUMES OF IONS IN AQUEOUS
SOLUTION. I. DEPENDENCE ON CHARGE AND RADIUS..

AUTHOR- COUTURE, A.M.; LAIDLER, K.J. [OTTAWA UNIV.,
ONTARIO (CANADA). DEPT. OF CHEMISTRY].

REFERENCE- CAN. J. CHEM., V. 34, P. 1209-1216(1956).

DESCRIPTORS- APPARENT MOLAL VOLUME; PARTIAL MOLAL
VOLUME; SODIUM CHLORIDES; POTASSIUM CHLORIDES;
CALCIUM CHLORIDES; ELECTROLYTES; IONS; STANDARD
TEMPERATURE; STANDARD PRESSURE; GRAPHS; TABLES;
EMPIRICAL EQUATIONS.

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COUTURE 57
SOLUTIONS/VOLUMETRIC

TITLE- THE PARTIAL MOLAL VOLUMES OF IONS IN AQUEOUS
SOLUTION. II. AN EMPIRICAL EQUATION FOR
OXY-ANIONS..

AUTHOR- COUTURE, A.M.; LAIDLER, K.J. [OTTAWA UNIV.,
ONTARIO (CANADA). DEPT. OF CHEMISTRY].

REFERENCE- CAN. J. CHEM., V. 35, P. 207-210(1957).

DESCRIPTORS- PARTIAL MOLAL VOLUME; IONS; STANDARD
TEMPERATURE; STANDARD PRESSURE; EMPIRICAL
EQUATIONS; TABLES; GRAPHS.

47

COVINGTON 68
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- EXCESS FREE ENERGIES OF AQUEOUS MIXTURES OF
SOME ALKALI METAL HALIDE SALT PAIRS.

AUTHOR- COVINGTON, A.K.; LILLEY, T.H.; ROBINSON, R.A.

[NEWCASTLE UPON TYNE UNIV. (UK)].

REFERENCE- J. PHYS. CHEM., V. 72 (8), P.
2759-2763(1968).

DESCRIPTORS- THERMODYNAMICS; SODIUM CHLORIDES;
EXPERIMENTAL RESULTS; POTASSIUM CHLORIDES;
SODIUM BROMIDES; POTASSIUM BROMIDES; STANDARD
TEMPERATURE; ISOPIESTIC MEASUREMENT; VAPOR
PRESSURE; OSMOTIC COEFFICIENT; FREE ENERGY;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE.

48

CRISS 61
SOLUTIONS/THERMODYNAMICS

TITLE- THE THERMODYNAMIC PROPERTIES OF HIGH
TEMPERATURE AQUEOUS SOLUTIONS. I. STANDARD
PARTIAL MOLAL HEAT CAPACITIES OF SODIUM
CHLORIDE AND BARIUM CHLORIDE FROM 0 TO 100
DEG..

AUTHOR- CRISS, C.M.; COBBLE, J.W. [PURDUE UNIV.,
LAFAYETTE, IND. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 83, P.
3223-3228(1961).

DESCRIPTORS- PARTIAL MOLAL SPECIFIC HEAT; SPECIFIC
HEAT; SODIUM CHLORIDES; EXPERIMENTAL RESULTS;
BARIUM CHLORIDES; APPARENT MOLAL SPECIFIC HEAT;
SOLUTION HEAT; LOW CONCENTRATION; MODERATE
CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; STANDARD
PRESSURE; TABLES; GRAPHS; EMPIRICAL EQUATIONS.

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DE BETHUNE 69
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- HEATS AND ENTROPIES OF TRANSPORT OF IONS IN
AQUEOUS SALINE SYSTEMS.

AUTHOR- DE BETHUNE, A.J. [BOSTON COLL., CHESTNUT
HILL, MASS. (USA)].

REFERENCE- HEATS AND ENTROPIES OF TRANSPORT OF IONS
IN AQUEOUS SALINE SYSTEMS. NO. 412, U.S. OFF.
SALINE WATER, RES. DEV. PRGG. REP., 1969, 91

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; TRANSFERENCE
NUMBER; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ENTHALPY; ENTROPY; PARTIAL MOLAL
SPECIFIC HEAT; ELECTROMOTIVE FORCE; IONS;
CALCIUM CHLORIDES; HYDROCHLORIC ACID; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

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DESNOYERS 69
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT MOLAL VOLUMES OF ALKALI HALIDES IN
WATER AT 25 DEG. INFLUENCE OF STRUCTURAL
HYDRATION INTERACTIONS ON THE CONCENTRATION
DEPENDENCE.

AUTHOR- DESNOYERS, J.E.; AREL, M.; PERRON,
G.; JOLICOEUR, C. [SHERBROOKE UNIV., QUEBEC
(CANADA). DEPT. DE CHIMIE].

REFERENCE- J. PHYS. CHEM., V. 73 (10), P.
3346-3351(1969).

DESCRIPTORS- DENSITY; APPARENT MOLAL VOLUME; SODIUM
FLUORIDES; POTASSIUM FLUORIDES; LITHIUM
CHLORIDES; LITHIUM BROMIDES; SODIUM BROMIDES;
POTASSIUM BROMIDES; SODIUM IODIDES; POTASSIUM
IODIDES; SODIUM CHLORIDES; POTASSIUM CHLORIDES;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
STANDARD TEMPERATURE; STANDARD PRESSURE;
TABLES; GRAPHS; EMPIRICAL EQUATIONS;
ELECTROLYTES; IONS.

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DEVDARIANI 73
SOLUTIONS/VOLUMETRIC

TITLE- AN ULTRASONIC STUDY OF THE VOLUME PROPERTIES
OF AQUEOUS SOLUTIONS OF CERTAIN ELECTROLYTES.

AUTHOR- DEVDARIANI, A.K.; KOLOBOV, N.P.; MARENINA,
K.N. [LENISOVET TECHNOLOGICAL INSTITUTE,
LENINGRAD (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 47 (12), P.
1689-1691(1973). TRANSLATED FROM ZH. FIZ.
KHIM., V. 47 (12), P. 3006-3009 (1973).

DESCRIPTORS- LITHIUM CHLORIDES; SODIUM CHLORIDES;

POTASSIUM CHLORIDES; SODIUM BROMIDES;
ELECTROLYTES; PARTIAL MOLAL VOLUME; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE; STANDARD
PRESSURE.

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DIBROV 64
SOLUTIONS/VOLUMETRIC

TITLE- THE DENSITY AND COMPRESSIBILITY OF AQUEOUS
SODIUM HYDROXIDE SOLUTIONS AT HIGH
TEMPERATURES.

AUTHOR- DIBROV, I.A.; MASHOVETS, V.P.; MATVEEVA, R.P.
[LENSOVET TECHNOLOGICAL INSTITUTE, Leningrad
(USSR)].

REFERENCE- J. APPL. CHEM. USSR, V. 37 (1), P.
38-44 (1964). TRANSLATED FROM ZH. PRIKL. KHIM.,
V. 37 (1), P. 29-36 (1964).

DESCRIPTORS- DENSITY; APPARENT MOLAL VOLUME;
ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SODIUM HYDROXIDES; GRAPHS; TABLES;
EMPIRICAL EQUATIONS; COMPRESSIBILITY; STANDARD
PRESSURE; ELEVATED PRESSURE; MODERATE PRESSURE.

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DROST-HANSEN 68
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- VISCOSITY AND CONDUCTIVITY STUDIES.

AUTHOR- DROST-HANSEN, W.; KORSON, L. [MIAMI UNIV.,
FLA. (USA)].

REFERENCE- VISCOSITY AND CONDUCTIVITY STUDIES. NO.
349, U.S. OFF. SALINE WATER, RES. DEV. PROG.
REP., 1968, 74 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; APPARENT
MOLAL VOLUME; DENSITY; ELECTRIC CONDUCTIVITY;
VISCOSITY; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; MEASURING
INSTRUMENTS; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; SODIUM SULFATES; WATER.

DROST-HANSEN 70
SOLUTIONS/VOLUMETRIC

TITLE- FREEZING POTENTIALS IN HEAVY WATER.

AUTHOR- DROST-HANSEN, W.; CURRY, R.W. [MIAMI UNIV.,
FLA. (USA). ROSENSTIEL SCHOOL OF MARINE AND
ATMOSPHERIC SCIENCES].

REFERENCE- J. COLLOID INTERFACE SCI., V. 32 (3), P.
464-468(1970).

DESCRIPTORS- FREEZING POTENTIAL; WATER; HEAVY WATER;
POTASSIUM CHLORIDES; LOW TEMPERATURE; STANDARD
PRESSURE; LOW CONCENTRATION; GRAPHS.

DRUCKER 41
SOLUTIONS/VOLUMETRIC

TITLE- STUDY OF THE PARTIAL SPECIFIC VOLUME IN
BINARY AND TERNARY SOLUTIONS. (IN GERMAN).
STUDIEN UBER PARTIELLE SPEZIFISCHE VOLUMINA IN
BINAREN UND TERNAREN LOSUNGEN.

AUTHOR- DRUCKER, C. [UPSALA, PHYSIKALISCH-CHEMISCHES
INSTITUT (F.R. GERMANY)].

REFERENCE- ARK. KEMI, MINERAL. GEOL., V. 14A (15),
P. 1-48(1941).

DESCRIPTORS- PYCNOMETERS; POTASSIUM IODIDES; CADMIUM
IODIDES; APPARENT MOLAL VOLUME; POTASSIUM
CHLORIDES; ELECTROLYTES; PARTIAL MOLAL VOLUME;
HYDROCHLORIC ACID; STANDARD PRESSURE; STANDARD
TEMPERATURE; TABLES; GRAPHS; EMPIRICAL

DUEDALL 65
SOLUTIONS/VOLUMETRIC

TITLE- APPARATUS FOR DETERMINING THE PARTIAL
EQUIVALENT VOLUMES OF SALTS IN AQUEOUS
SOLUTIONS.

AUTHOR- DUEDALL, I.W.; WEYL, P.K. [OREGON STATE

UNIV., CORVALLIS (USA). DEPT. OF OCEANOGRAPHY].

REFERENCE- REV. SCI. INSTRUM., V. 36 (4), P.
528-531(1965).

DESCRIPTORS- DILATOMETERS; LOW TEMPERATURE; PARTIAL
MOLAL VOLUME; SODIUM CHLORIDES; LOW
CONCENTRATION; STANDARD PRESSURE; TABLES;
GRAPHS; EMPIRICAL EQUATIONS.

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DUEDALL 67
SOLUTIONS/VOLUMETRIC

TITLE- THE PARTIAL EQUIVALENT VOLUMES OF SALTS IN
SEAWATER.

AUTHOR- DUEDALL, I.W.;WEYL, P.K. [OREGON STATE
UNIV., CORVALLIS (USA). DEPT. OF OCEANOGRAPHY].

REFERENCE- LIMNOL. OCEANOGR., V. 12 (1), P.
52-59(1967).

DESCRIPTORS- DILATOMETERS; SODIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM SULFATES; POTASSIUM
SULFATES; SEA WATER; ELECTROLYTES; IONS;
PARTIAL MOLAL VOLUME; LOW TEMPERATURE; STANDARD
TEMPERATURE; STANDARD PRESSURE; HIGH
CONCENTRATION.

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DUER 72
SOLUTIONS/MISC.

TITLE- MOLAR CONDUCTIVITY OF SODIUM FLUORIDE IN
AQUEOUS SOLUTION AT 25 DEG..

AUTHOR- DUER, W.C.;ROBINSON, R.A.;BATES, R.G.
[FLORIDA UNIV., GAINESVILLE (USA)].

REFERENCE- J. CHEM. SOC., FARADAY TRANS. 1, V. 68
(4), P. 716-722(1972).

DESCRIPTORS- ELECTRIC CONDUCTIVITY; SODIUM
FLUORIDES; STANDARD TEMPERATURE; STANDARD
PRESSURE; DISSOCIATION CONSTANT; HYDROCHLORIC
ACID; MODERATE CONCENTRATION; LOW
CONCENTRATION; ELECTROLYTES; GRAPHS; TABLES;
EMPIRICAL EQUATIONS.

DUNN 66
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT MOLAL VOLUMES OF ELECTROLYTES. PART
1.-SOME 1-1, 1-2, 2-1, 3-1 ELECTROLYTES IN
AQUEOUS SOLUTION AT 25 DEG..

AUTHOR- DUNN, L.A. [NEW ENGLAND UNIV., ARMIDALE
(AUSTRALIA)].

REFERENCE- TRANS. FARADAY SOC., V. 62, P.
2348-2354(1966).

DESCRIPTORS- APPARENT MOLAL VOLUME; HYDROCHLORIC
ACID; MAGNESIUM CHLORIDES; CALCIUM CHLORIDES;
BARIUM CHLORIDES; DILATOMETERS; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE; STANDARD
PRESSURE; PYCNOMETERS; EMPIRICAL EQUATIONS;
TABLES; GRAPHS; POTASSIUM SULFATES; SODIUM
SULFATES; ELECTROLYTES.

DUNN 68
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT MOLAL VOLUMES OF ELECTROLYTES. PART
3.-SOME 1-1 AND 2-1 ELECTROLYTES IN AQUEOUS
SOLUTION AT 0, 5, 15, 35, 45, 55 AND 65 DEG..

AUTHOR- DUNN, L.A. [NEW ENGLAND UNIV., ARMIDALE
(AUSTRALIA)].

REFERENCE- TRANS. FARADAY SOC., V. 64 (11), P.
2951-2961(1968).

DESCRIPTORS- DENSITY; APPARENT MOLAL VOLUME;
EXPERIMENTAL RESULTS; SODIUM CHLORIDES;
POTASSIUM CHLORIDES; POTASSIUM BROMIDES;
POTASSIUM IODIDES; BARIUM CHLORIDES; CALCIUM
CHLORIDES; TABLES; GRAPHS; EMPIRICAL EQUATIONS;
LOW TEMPERATURE; MODERATE TEMPERATURE; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; PYCNOMETERS; DILATOMETERS.

DUNN 68B
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT MOLAR VOLUMES OF ELECTROLYTES. PART
2.-SOME 1-1 ELECTROLYTES IN AQUEOUS SOLUTION AT
25 DEG..

AUTHOR- DUNN, L.A. [NEW ENGLAND UNIV., ARMIDALE
(AUSTRALIA)].

REFERENCE- TRANS. FARADAY SOC., V. 64 (7), P.
1898-1903(1968).

DESCRIPTORS- DENSITY; EXPERIMENTAL RESULTS; APPARENT
MOLAL VOLUME; DILATOMETERS; PYCNOMETERS;
STANDARD TEMPERATURE; STANDARD PRESSURE; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; SODIUM CHLORIDES; POTASSIUM
CHLORIDES; POTASSIUM BROMIDES; POTASSIUM
IODIDES; GRAPHS; EMPIRICAL EQUATIONS; TABLES.

62

DUNN 69
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTRICAL CONDUCTANCES OF AQUEOUS SODIUM
IODIDE AND COMPARATIVE THERMODYNAMIC BEHAVIOR
OF AQUEOUS SODIUM HALIDE SOLUTIONS TO 800 DEG
AND 4000 BARS.

AUTHOR- DUNN, L.A.; MARSHALL, W.L. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 73(3), P.
723-728(1969).

DESCRIPTORS- ELECTRIC CONDUCTIVITY; EXPERIMENTAL
RESULTS; MODERATE CONCENTRATION; ELEVATED
PRESSURE; HIGH PRESSURE; HIGH TEMPERATURE;
ELEVATED TEMPERATURE; MODERATE TEMPERATURE; LOW
CONCENTRATION; LOW TEMPERATURE; DISSOCIATION
CONSTANT; FREE ENERGY; ENTHALPY; ENTROPY;
SODIUM CHLORIDES; SODIUM IODIDES; TABLES;

63

ECKART 58
SOLUTIONS/VOLUMETRIC

TITLE- PROPERTIES OF WATER, PART II. THE EQUATION OF
STATE OF WATER AND SEA WATER AT LOW
TEMPERATURES AND PRESSURES.

AUTHOR- ECKART, C. [SCRIPPS INSTITUTION OF

OCEANOGRAPHY, LA JOLLA, CALIF. (USA)].

REFERENCE- AM. J. SCI., V. 256, P. 225-240(1958).

DESCRIPTORS- SEA WATER; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW TEMPERATURE; MODERATE TEMPERATURE; LOW CONCENTRATION; ELEVATED CONCENTRATION; MODERATE CONCENTRATION; DENSITY; THERMAL EXPANSIVITY; TABLES; GRAPHS; EMPIRICAL EQUATIONS.

64

EGOROV 73
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL MOLAR VOLUMES OF AQUEOUS CHLORIDE SOLUTIONS AT HIGH TEMPERATURES AND PRESSURES. (IN RUSSIAN).

AUTHOR- EGOROV, V.M.; IKORNIKOVA, N.YU.

REFERENCE- ZAP. VSES. MINERAL. OVA, V. 102, P. 272-282(1973).

DESCRIPTORS- APPARENT MOLAL VOLUME; SODIUM CHLORIDES; EXPERIMENTAL RESULTS; HIGH CONCENTRATION; ELEVATED TEMPERATURE; HIGH TEMPERATURE; HIGH PRESSURE; GRAPHS; TABLES; AUTOCLAVES; LITHIUM CHLORIDES; CESIUM CHLORIDES; ELECTROLYTES; DENSITY.

65

ELLIS 57
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- HYDROTHERMAL CHEMISTRY.

AUTHOR- ELLIS, A.J. (DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, WELLINGTON (NEW ZEALAND)).

FYFE, W.S. (OTAGO UNIV., DUNEDIN (NEW ZEALAND)).

REFERENCE- REV. PURE APPL. CHEM., V. 7, P. 261-316(1957).

DESCRIPTORS- ACTIVITY COEFFICIENT; DIELECTRIC CONSTANT; WATER; VAPOR PRESSURE; VISCOSITY; THERMODYNAMICS; SODIUM CHLORIDES; MINERALS; SILICATES; SOLUBILITY; TABLES; GRAPHS;

EMPIRICAL EQUATIONS; ELECTROLYTES; ELECTRIC
CONDUCTIVITY; HYDROCHLORIC ACID; POTASSIUM
CHLORIDES; DISSOCIATION CONSTANT; FREE ENERGY.

66

ELLIS 63
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- THE SOLUBILITY OF CARBON DIOXIDE ABOVE 100
DEG. IN WATER AND IN SODIUM CHLORIDE SOLUTIONS.

AUTHOR- ELLIS, A.J.;GOLDING, R.M. [DEPARTMENT OF
SCIENTIFIC AND INDUSTRIAL RESEARCH, WELLINGTON
(NEW ZEALAND). DOMINION LABORATORY].

REFERENCE- AM. J. SCI., V. 261, P. 47-60(1963).

DESCRIPTORS- SOLUBILITY; CARBON DIOXIDE;
EXPERIMENTAL RESULTS; SODIUM CHLORIDES;
DENSITY; ELEVATED TEMPERATURE; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; MODERATE
PRESSURE; THERMODYNAMICS; FREE ENERGY;
ENTHALPY; ENTROPY; AUTOCLAVES; TABLES; GRAPHS;
EMPIRICAL EQUATIONS.

67

ELLIS 66
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL MOLAL VOLUMES OF ALKALI CHLORIDES IN
AQUEOUS SOLUTION TO 200 DEG..

AUTHOR- ELLIS, A.J. [DEPARTMENT OF SCIENCE AND
INDUSTRIAL RESEARCH, PETONE (NEW ZEALAND).
CHEMISTRY DIVISION].

REFERENCE- J. CHEM. SOC. A, V. 1966 (11), P.
1579-1584(1966).

DESCRIPTORS- DENSITY; PARTIAL MOLAL VOLUME; LITHIUM
CHLORIDES; SODIUM CHLORIDES; POTASSIUM
CHLORIDES; CESIUM CHLORIDES; ELEVATED
CONCENTRATION; ELEVATED PRESSURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; APPARENT
MOLAL VOLUME; TABLES; GRAPHS; EMPIRICAL
EQUATIONS; SPECIFIC HEAT; MERCURY DISPLACEMENT
METHOD.

ELLIS 67
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL MOLAL VOLUMES OF $MgCl_2$, $CaCl_2$, $SrCl_2$,
AND $BaCl_2$ IN AQUEOUS SOLUTIONS TO 200 DEG..

AUTHOR- ELLIS, A.J. [DEPARTMENT OF SCIENTIFIC AND
INDUSTRIAL RESEARCH, PETONE (NEW ZEALAND).
CHEMISTRY DIVISION].

REFERENCE- J. CHEM. SOC. A, V. 1967A, P.
660-664(1967).

DESCRIPTORS- DENSITY; PARTIAL MOLAL VOLUME;
EXPERIMENTAL RESULTS; MAGNESIUM CHLORIDES;
CALCIUM CHLORIDES; BARIUM CHLORIDES;
ELECTROLYTES; MODERATE PRESSURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ELEVATED
CONCENTRATION; MERCURY DISPLACEMENT METHOD;
APPARENT MOLAL VOLUME; TABLES; GRAPHS;
EMPIRICAL EQUATIONS; IONS.

ELLIS 68
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL MOLAL VOLUMES IN HIGH-TEMPERATURE
WATER. PART III. HALIDE AND OXYANION SALTS.

AUTHOR- ELLIS, A.J. [DEPARTMENT OF SCIENTIFIC AND
INDUSTRIAL RESEARCH, PETONE (NEW ZEALAND).
CHEMISTRY DIVISION].

REFERENCE- J. CHEM. SOC. A, V. 1968A, P.
1138-1143(1968).

DESCRIPTORS- PYCNOMETERS; MERCURY DISPLACEMENT
METHOD; DENSITY; PARTIAL MOLAL VOLUME; APPARENT
MOLAL VOLUME; MODERATE PRESSURE; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; POTASSIUM
FLUORIDES; POTASSIUM BROMIDES; POTASSIUM
IODIDES; SODIUM SULFATES; POTASSIUM SULFATES;
ELECTROLYTES; TABLES; GRAPHS; EMPIRICAL
EQUATIONS; IONS.

SOLUTIONS/VOLUMETRIC

TITLE- THE PARTIAL MOLAL VOLUME OF HYDROCHLORIC ACID
IN HIGH-TEMPERATURE WATER.

AUTHOR- ELLIS, A.J.; MCFADDEN, I.M. [DEPARTMENT OF
SCIENTIFIC AND INDUSTRIAL RESEARCH, PETONE (NEW
ZEALAND). CHEMISTRY DIVISION].

REFERENCE- CHEM. COMMUN., V. 287, P. 516-517(1968).

DESCRIPTORS- PARTIAL MOLAL VOLUME; HYDROCHLORIC
ACID; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; TABLES;
GRAPHS; EMPIRICAL EQUATIONS; MERCURY
DISPLACEMENT METHOD; MODERATE PRESSURE;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
IONS; ELECTROLYTES.

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ELLIS 72
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- PARTIAL MOLAL VOLUMES OF IONS IN HYDROTHERMAL
SOLUTIONS.

AUTHOR- ELLIS, A.J.; MCFADDEN, I.M. [DEPARTMENT OF
SCIENTIFIC AND INDUSTRIAL RESEARCH, PETONE (NEW
ZEALAND). CHEMISTRY DIVISION].

REFERENCE- GEOCHIM. COSMOCHIM. ACTA, V. 36, P.
413-426(1972).

DESCRIPTORS- PARTIAL MOLAL VOLUME; SODIUM
BICARBONATES; DENSITY; MERCURY DISPLACEMENT
METHOD; MODERATE PRESSURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; CARBON DIOXIDE; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; SODIUM
BISULFIDES; ELECTROLYTES; IONS; GRAPHS; TABLES;
EMPIRICAL EQUATIONS; HYDROGEN SULFIDES;
SILICATES; CALCIUM FLUORIDES; CALCIUM
CARBONATES; CALCIUM SULFATES; FREE ENERGY;
THERMODYNAMICS; SOLUBILITY; DISSOCIATION
CONSTANT.

72

ENSOR 73
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF DILUTION OF NACL. TEMPERATURE
DEPENDENCE.

AUTHOR- ENSOR, D.D.; ANDERSON, H.L. [NORTH CAROLINA
UNIV., GREENSBORO (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. ENG. DATA, V. 18 (2), P.
205-212(1973).

DESCRIPTORS- DILUTION HEAT; ELEVATED CONCENTRATION;
EXPERIMENTAL RESULTS; HIGH CONCENTRATION;
SODIUM CHLORIDES; ACTIVITY COEFFICIENT; OSMOTIC
COEFFICIENT; THERMODYNAMICS; SPECIFIC HEAT;
PARTIAL MOLAL SPECIFIC HEAT; STANDARD PRESSURE;
MODERATE TEMPERATURE; TABLES; EMPIRICAL
EQUATIONS.

73

EPIKHIN 67
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- VOLUME AND HEAT CAPACITY CHANGES IN AQUEOUS
SALT SOLUTIONS. V. THE SODIUM CHLORIDE-SODIUM
NITRATE-WATER AND SODIUM CHLORIDE-SODIUM
PERCHLORATE-WATER SYSTEMS.

AUTHOR- EPIKHIN, YU.A.; STAKHANOVA, M.S. [MENDELEEV
MOSCOW INSTITUTE OF CHEMICAL TECHNOLOGY (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 41 (9), P.
1157-1160(1967). TRANSLATED FROM ZH. FIZ.
KHIM., V. 41 (9), P. 2148-2152 (1967).

DESCRIPTORS- SODIUM CHLORIDES; SODIUM NITRATES;
EXPERIMENTAL RESULTS; ELECTROLYTES; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; STANDARD PRESSURE; DENSITY;
SPECIFIC HEAT; APPARENT MOLAL SPECIFIC HEAT;
PARTIAL MOLAL SPECIFIC HEAT; TABLES; GRAPHS;
EMPIRICAL EQUATIONS.

74

EVANS 70
SOLUTIONS/MISC.

TITLE- ELECTROCHEMICALLY CONTROLLED ION-EXCHANGE.

AUTHOR- EVANS, S.; ACCOMAZZO, M.A.; LADACKI,
M.; LOSSETT, K.A. [ROCKETDYNE, CANOGA PARK,
CALIF. (USA)].

REFERENCE- ELECTROCHEMICALLY CONTROLLED
ION-EXCHANGE. NO. 598, U.S. OFF. SALINE WATER,
RES. DEV. PROG. REP., 1970, 71 P..

DESCRIPTORS- REVIEWS; DIFFUSION; ION EXCHANGE.

75

FABUSS 66
SOLUTIONS/VOLUMETRIC

TITLE- DENSITIES OF BINARY AND TERNARY AQUEOUS
SOLUTIONS OF NaCl, Na₂SO₄, AND MgSO₄, OF SEA
WATERS, AND SEA WATER CONCENTRATES.

AUTHOR- FABUSS, B.M.; KOROSI, A. [MONSANTO RESEARCH
CORP., EVERETT, MASS. (USA)].

HUQ, A.K.M.S.Y [THE ATOMIC ENERGY CENTER,
Dacca (PAKISTAN)].

REFERENCE- J. CHEM. ENG. DATA, V.11 (3),
P.325-331(1966).

DESCRIPTORS- DENSITY; SODIUM CHLORIDES; EXPERIMENTAL
RESULTS; SODIUM SULFATES; MAGNESIUM SULFATES;
SEA WATER; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; APPARENT
MOLAL VOLUME; STANDARD PRESSURE; PYCNOMETERS;
DILATOMETERS; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION;
POTASSIUM CHLORIDES; CALCIUM CHLORIDES;
ELECTROLYTES; TABLES; GRAPHS; EMPIRICAL
EQUATIONS.

76

FABUSS 67
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- THERMODYNAMIC PROPERTIES OF SEA WATER AND ITS
CONCENTRATES.

AUTHOR- FABUSS, B.M.; KOROSI, A. [MONSANTO RESEARCH
CORP., EVERETT, MASS. (USA). BOSTON LABORATORY].

REFERENCE- DESALINATION, V. 2, P. 271-278(1967).

DESCRIPTORS- SEA WATER; PYCNOMETERS; DILATOMETERS;
ISOTENSICOPIES; SODIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM SULFATES; MAGNESIUM SULFATES;
VISCOSITY; VAPOR PRESSURE; BOILING POINT;
STANDARD PRESSURE; STANDARD TEMPERATURE;

MODERATE TEMPERATURE; ELEVATED TEMPERATURE;
GRAPHS; TABLES; EMPIRICAL EQUATIONS; DENSITY;
APPARENT MOLAL VOLUME.

77

FABUSS 67B
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- SECOND REPORT ON THERMOPHYSICAL PROPERTIES OF
SALINE WATER SYSTEMS.

AUTHOR- FABUSS, B.M.; KOROSI, A.

REFERENCE- SECOND REPORT ON THERMOPHYSICAL
PROPERTIES OF SALINE WATER SYSTEMS. NO. 249,
U.S. OFF. SALINE WATER, RES. DEV. PROG. REP.,
1967, 50 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES;
EXPERIMENTAL RESULTS; DENSITY; THERMAL
CONDUCTIVITY; VISCOSITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; MAGNESIUM SULFATES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; SODIUM SULFATES;
WATER.

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FABUSS 68
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- PROPERTIES OF SEAWATER AND SOLUTIONS
CONTAINING SODIUM CHLORIDE, POTASSIUM CHLORIDE,
SODIUM SULFATE AND MAGNESIUM SULFATE.

AUTHOR- FABUSS, B.M.; KOROSI, A. [MONSANTO RESEARCH
CORP., EVERETT, MASS. (USA)].

REFERENCE- PROPERTIES OF SEAWATER AND SOLUTIONS
CONTAINING SODIUM CHLORIDE, POTASSIUM CHLORIDE,
SODIUM SULFATE AND MAGNESIUM SULFATE. NO. 384,
U.S. OFF. SALINE WATER, RES. DEV. PROG. REP.,
1968, 133 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; BOILING
POINT; DENSITY; THERMAL CONDUCTIVITY;
EXPERIMENTAL RESULTS; VAPOR PRESSURE;
VISCOSITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; LOW TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; SEA WATER;

MAGNESIUM SULFATES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; SODIUM SULFATES; WATER.

79

FAJANS 42
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT VOLUMES OF INDIVIDUAL IONS IN
AQUEOUS SOLUTION.

AUTHOR- FAJANS, K.; JOHNSON, D. [MICHIGAN UNIV., ANN
ARBOR (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V.64, P.668-678(1942).

DESCRIPTORS- APPARENT MOLAL VOLUME; ELECTROLYTES;
VISCOSITY; SODIUM CHLORIDES; POTASSIUM
CHLORIDES; IONS; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; STANDARD
PRESSURE; GRAPHS; TABLES; EMPIRICAL EQUATIONS.

80

FATULLAEV 73
SOLUTIONS/MISC.

TITLE- THERMAL CONDUCTIVITIES OF AQUEOUS POTASSIUM
AND CALCIUM CHLORIDE SOLUTIONS.

AUTHOR- FATULLAEV, F.G.; KERIMOV, A. M. [ES'MAN
AZERBAIJAN INSTITUTE OF POWER ENGINEERING, BAKU
(USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 47(6), P.
913(1973). TRANSLATED FROM ZH. FIZ. KHIM., V.
47 (6), P. 1608 (1973).

DESCRIPTORS- THERMAL CONDUCTIVITY; POTASSIUM
CHLORIDES; CALCIUM CHLORIDES; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE.

81

FIALKOV 68
SOLUTIONS/MISC.

TITLE- DIFFUSION IN CONCENTRATED ELECTROLYTE

SOLUTIONS. (IN RUSSIAN).

AUTHOR- FIALKOV, YU.YA.; POPOVA, L.V.; KUDRA, O.K.

REFERENCE- UKR. KHEM. ZH., V.34(12),
1225-1227(1968).

DESCRIPTORS- DIFFUSION; SODIUM CHLORIDES; POTASSIUM
CHLORIDES; LITHIUM CHLORIDES; CALCIUM
CHLORIDES; ELECTROLYTES; ELECTRIC CONDUCTIVITY;
TABLES; EMPIRICAL EQUATIONS.

82

FORTIER 74
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMIC PROPERTIES OF ALKALI HALIDES.
III. VOLUMES AND HEAT CAPACITIES OF TRANSFER
FROM H₂O TO D₂O AT 25 DEG..

AUTHOR- FORTIER, J.L.; PHILIP, P.R.; DESNOYERS, J.E.
[SHERBROOKE UNIV., QUEBEC (CANADA). DEPT. DE
CHIMIE].

REFERENCE- J. SOLUTION CHEM., V.3(7), P.
523-538(1974).

DESCRIPTORS- WATER; HEAVY WATER; APPARENT MOLAL
VOLUME; APPARENT MOLAL SPECIFIC HEAT; DENSITY;
STANDARD TEMPERATURE; STANDARD PRESSURE; SODIUM
CHLORIDES; SODIUM IODIDES; POTASSIUM FLUORIDES;
SODIUM BROMIDES; POTASSIUM BROMIDES;
ELECTROLYTES; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HYDRATION; THERMODYNAMICS;
TABLES; GRAPHS; EMPIRICAL EQUATIONS.

83

FREYER 31
SOLUTIONS/VOLUMETRIC

TITLE- SONIC STUDIES OF THE PHYSICAL PROPERTIES OF
LIQUIDS. II. THE VELOCITY OF SOUND IN SOLUTIONS
OF CERTAIN ALKALI HALIDES AND THEIR
COMPRESSIBILITIES.

AUTHOR- FREYER, E.B. [JOHNS HOPKINS UNIV.,
BALTIMORE, MD. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V.
53, P.1313-1320(1931).

DESCRIPTORS- COMPRESSIBILITY; VELOCITY OF SOUND;
EXPERIMENTAL RESULTS; SODIUM CHLORIDES; SODIUM
BROMIDES; SODIUM IODIDES; POTASSIUM CHLORIDES;
POTASSIUM BROMIDES; POTASSIUM IODIDES; DENSITY;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
HYDROCHLORIC ACID; TABLES; GRAPHS; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; ELEVATED TEMPERATURE.

84

FRANCK 70
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- WATER AND AQUEOUS SOLUTIONS AT HIGH
TEMPERATURES AND PRESSURES.

AUTHOR- FRANCK, E.U. [KARLSRUHE UNIV. (TH) (F.R.
GERMANY)].

REFERENCE- PURE APPL. CHEM., V.24(1), P.13-30(1970).

DESCRIPTORS- DENSITY; DIELECTRIC CONSTANT; WATER;
ELECTRIC CONDUCTIVITY; POTASSIUM CHLORIDES;
HYDROCHLORIC ACID; IONIZATION CONSTANT;
REVIEWS; GRAPHS; ELECTROLYTES.

85

FRANKS 67
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT MOLAL VOLUMES AND EXPANSIBILITIES OF
ELECTROLYTES IN DILUTE AQUEOUS SOLUTION.

AUTHOR- FRANKS, F.; SMITH, H.T. [BRADFORD UNIV.,
(UK). SCHOOL OF CHEMISTRY].

REFERENCE- TRANS. FARADAY SOC., V. 63 (11), P.
2586-2598(1967).

DESCRIPTORS- APPARENT MOLAL VOLUME; MAGNETIC FLOAT
METHOD; EXPERIMENTAL RESULTS; LOW TEMPERATURE;
STANDARD TEMPERATURE; STANDARD PRESSURE; LOW
CONCENTRATION; MODERATE CONCENTRATION; THERMAL
EXPANSIVITY; SODIUM CHLORIDES; POTASSIUM
CHLORIDES; MAGNESIUM SULFATES; ELECTROLYTES;
TABLES; GRAPHS; EMPIRICAL EQUATIONS.

86

FROLOV 71
SOLUTIONS/THERMODYNAMICS

TITLE- EXCESS THERMODYNAMIC FUNCTIONSS OF MIXING OF
AQUEOUS ISOPIESTIC ELECTROLYTE SOLUTIONS
WITHOUT COMMON ION.

AUTHOR- FROLOV, YU.G.; NIKOLAEV, V.P.; KARAPET'YANTS,
M.KH.; VLASENKO, K.K. [MENDELEEV MOSCOW
INSTITUTE OF CHEMICAL ENGINEERING (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V.45(7), P.
1054-1055(1971). TRANSLATED FROM ZH. FIZ.
KHIM., V. 45 (7), 1847-50 (1971).

DESCRIPTORS- FREE ENERGY; ENTHALPY; MIXING HEAT;
STANDARD TEMPERATURE; ISOPIESTIC MEASUREMENT;
POTASSIUM BROMIDES; LITHIUM CHLORIDES; CESIUM
CHLORIDES; MAGNESIUM CHLORIDES.

87

GANCY 69
SOLUTIONS/MISC.

TITLE- THE EFFECT OF SOLUTION CONCENTRATION ON THE
HIGH-PRESSURE COEFFICIENT OF IONIC CONDUCTANCE.

AUTHOR- GANCY, A.B.; BRUMMER, S.B. [TYCO LABS., INC.,
WALTHAM, MASS. (USA)].

REFERENCE- J. PHYS. CHEM., V. 73 (7), P.
2429-2436(1969).

DESCRIPTORS- ELECTRIC CONDUCTIVITY; LOW TEMPERATURE;
EXPERIMENTAL RESULTS; STANDARD TEMPERATURE;
MODERATE TEMPERATURE; STANDARD PRESSURE;
MODERATE PRESSURE; ELEVATED PRESSURE; HIGH
PRESSURE; LITHIUM CHLORIDES; SODIUM CHLORIDES;
ELECTROLYTES; LOW CONCENTRATION; GRAPHS;
EMPIRICAL EQUATIONS; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION.

88

GANCY 72
SOLUTIONS/MISC.

TITLE- AQUEOUS SOLUTIONS UNDER EXTREME CONDITIONS.
II. HIGH TEMPERATURES. CHAPTER 19.

AUTHOR- GANCY, A.B.

HORNE, R.A. (ED.)

REFERENCE- WATER AND AQUEOUS SOLUTIONS. STRUCTURE,
THERMODYNAMICS, AND TRANSPORT PROCESSES.
WILEY-INTERSCIENCE, NEW YORK, 1972, P. 771-803.

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
DISSOCIATION CONSTANT; ELECTRIC CONDUCTIVITY;
EQUILIBRIUM CONSTANT; ION MOBILITY; ELEVATED
PRESSURE; HIGH PRESSURE; ELEVATED TEMPERATURE;
HIGH TEMPERATURE; ELECTROLYTES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

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GARDINER 72
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- SOLUBILITY AND PARTIAL MOLAR PROPERTIES OF
HELIUM IN WATER AND AQUEOUS SODIUM CHLORIDE
FROM 25 TO 100 DEG. AND 100 TO 600 ATMOSPHERES.

AUTHOR- GARDINER, G.E.; SMITH, N.O. [FORDHAM UNIV.,
NEW YORK (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 76 (8), P.
1195-1202(1972).

DESCRIPTORS- EXPERIMENTAL RESULTS; HIGH
CONCENTRATION; HELIUM; SOLUBILITY; SODIUM
CHLORIDES; MODERATE TEMPERATURE; STANDARD
TEMPERATURE; TABLES; GRAPHS; EMPIRICAL
EQUATIONS; PARTIAL MOLAL VOLUME;
COMPRESSIBILITY; THERMODYNAMICS.

90

GARRETT 51
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- A STUDY OF SEVERAL PHYSICAL PROPERTIES OF
ELECTROLYTES OVER THE TEMPERATURE RANGE OF 25
TO -73 DEG..

AUTHOR- GARRETT, A.B.; WOODRUFF, S.A. [OHIO STATE
UNIV., COLUMBUS (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. COLLOID CHEM., V. 55, P.
477-490(1951).

DESCRIPTORS- STANDARD TEMPERATURE; LOW TEMPERATURE;
PYCNOMETERS; VISCOSITY; DENSITY; ELECTRIC
CONDUCTIVITY; HYDROCHLORIC ACID; SULFURIC ACID;
LITHIUM CHLORIDES; ELECTROLYTES; GRAPHS;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
MELTING POINT.

91

GARDNER 69
SOLUTIONS/THERMODYNAMICS

TITLE- THE THERMODYNAMIC PROPERTIES OF
HIGH-TEMPERATURE AQUEOUS SOLUTIONS. XI.
CALORIMETRIC DETERMINATION OF THE STANDARD
PARTIAL MOLAL HEAT CAPACITY AND ENTROPY OF
SODIUM CHLORIDE SOLUTIONS FROM 100 TO 200 DEG..

AUTHOR- GARDNER, W.L.; COBBLE, J.W. [PURDUE UNIV.,
LAFAYETTE, IND. (USA). DEPT. OF CHEMISTRY].

MITCHELL, R.E. [TEXAS TECH. UNIV., LUBBOCK
(USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 73 (6), P.
2025-2032(1969).

DESCRIPTORS- SODIUM CHLORIDES; ELEVATED TEMPERATURE;
PARTIAL MOLAL SPECIFIC HEAT; EXPERIMENTAL
RESULTS; ENTROPY; MODERATE PRESSURE; SOLUTION
HEAT; MODERATE CONCENTRATION; ENTHALPY; PARTIAL
MOLAL ENTROPY; SPECIFIC HEAT; FREE ENERGY;
TABLES; GRAPHS; EMPIRICAL EQUATIONS.

92

GASTALDO 62
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- DETERMINATION AT COEFFICIENTS FOR
THERMODYNAMIC EQUATIONS FOR DETERMINING THE
PROPERTIES OF SEA WATER, PARTICULARLY VAPOR
PRESSURE.

AUTHOR- GASTALDO, C.

REFERENCE- DETERMINATION AT COEFFICIENTS FOR
THERMODYNAMIC EQUATIONS FOR DETERMINING THE
PROPERTIES OF SEA WATER, PARTICULARLY VAPOR
PRESSURE. 61-80, DEPARTMENT OF ENGINEERING,
UNIVERSITY OF CALIFORNIA, LOS ANGELES, CA,
1962, 149 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
APPARENT MOLAL VOLUME; BOILING POINT; DENSITY;
PARTIAL MOLAL VOLUME; VAPOR PRESSURE; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ACTIVITY
COEFFICIENT; OSMOTIC COEFFICIENT; SPECIFIC
HEAT; SEA WATER; WATER.

93

GEFFCKEN 31
SOLUTIONS/VOLUMETRIC

TITLE- THE APPARENT MOLAL VOLUMES OF DISSOLVED
ELECTROLYTES. I.. (IN GERMAN). UBER DIE
SCHEINBAREN MOLVOLUMINA GELOSTER ELEKTROLYTE.
I..

AUTHOR- GEFFCKEN, W. [MUENCHEN UNIV. (F.R. GERMANY).
PHYSIKALISCH-CHEMISCHES INST.].

REFERENCE- Z. PHYS. CHEM., ABT. A, V. 155, P.
1-28(1931).

DESCRIPTORS- POTASSIUM FLUORIDES; EXPERIMENTAL
RESULTS; POTASSIUM CHLORIDES; SODIUM CHLORIDES;
HYDROCHLORIC ACID; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; STANDARD
PRESSURE; APPARENT MOLAL VOLUME; LITHIUM
CHLORIDES; ELECTROLYTES; TABLES; GRAPHS;
EMPIRICAL EQUATIONS.

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GEFFCKEN 33
SOLUTIONS/VOLUMETRIC

TITLE- THE APPARENT MOLAL VOLUME OF DISSOLVED
ELECTROLYTES. II. THE PRESSURE COEFFICIENT OF
APPARENT MOLAL VOLUMES. (IN GERMAN). UBER DIE
SCHEINBAREN MOLVOLUMINA GELOSTER ELECKTROLYTE.
II. DER DRUCKKOEFFIZIENT DES SCHEINBAREN
MOLVOLUMENS.

AUTHOR- GEFFCKEN, W. [MUENCHEN UNIV. (F.R. GERMANY).
PHYSIKALISCH-CHEMISCHES INST.].

REFERENCE- Z. PHYS. CHEM., ABT. A, V. 167, P.
240-244(1933).

DESCRIPTORS- APPARENT MOLAL VOLUME; STANDARD

TEMPERATURE; STANDARD PRESSURE; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; CALCIUM CHLORIDES;
COMPRESSIBILITY; EMPIRICAL EQUATIONS.

95

GEFFCKEN 33B
SOLUTIONS/VOLUMETRIC

TITLE- MOLAR REFRACTION IN DILUTE SOLUTIONS. I. A
DIFFERENTIAL METHOD FOR PRECISION MEASUREMENT
OF THE DENSITY. (IN GERMAN). MOLREFRAKTION IN
VERDUNNTEN LOSUNGEN. I. MITTEILUNG/ EINE
DIFFERENTIALAUFTRIEBSMETHODE FUR
PRAZISIONSMESSUNGEN DER DICHTEN.

AUTHOR- GEFFCKEN, W.; BECKMANN, CH.; KRUIS, A.
[MUENCHEN UNIV. (F.R. GERMANY).
PHYSIKALISCH-CHEMISCHES INST.].

REFERENCE- Z. PHYS. CHEM., ABT. B, V. 20, P.
398-419(1933).

DESCRIPTORS- STANDARD TEMPERATURE; STANDARD
PRESSURE; SODIUM CHLORIDES; APPARENT MOLAL
VOLUME; SODIUM CARBONATES.

96

GEFFCKEN 34
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- DEPENDENCE OF THE APPARENT MOLAL VOLUME AND
APPARENT MOLAL REFRACTION IN DILUTE SOLUTIONS
ON CONCENTRATION. (IN GERMAN). ZUR FRAGE DER
KONZENTRATIONSABHANGIGKEIT DES SCHEINBAREN
MOLVOLUMENS UND DER SCHEINBAREN MOLREFRAKTION
IN VERDUNNTEN LOSUNGEN.

AUTHOR- GEFFCKEN, W.; PRICE, D. [MUENCHEN UNIV. (F.R.
GERMANY). PHYSIKALISCH-CHEMISCHES INST.].

REFERENCE- Z. PHYS. CHEM., ABT. B, V. 26, P.
81-99(1934).

DESCRIPTORS- REFRACTION; EXPERIMENTAL RESULTS;
SODIUM BROMIDES; SODIUM CHLORIDES; LITHIUM
CHLORIDES; SULFURIC ACID; LOW CONCENTRATION;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
STANDARD TEMPERATURE; STANDARD PRESSURE;
POTASSIUM CHLORIDES; SODIUM SULFATES; SODIUM
CARBONATES; PYCNOMETERS; TABLES; GRAPHS;
EMPIRICAL EQUATIONS; DENSITY; APPARENT MOLAL

GIBSON 27
SOLUTIONS/VOLUMETRIC

TITLE- THE SYSTEM SODIUM SULFATE-WATER. I. THE DENSITIES AND SPECIFIC VOLUMES OF AQUEOUS SOLUTIONS OF SODIUM SULFATE BETWEEN 25 AND 40 DEG., AND THE FICTIVE VOLUMES OF SODIUM SULPHATE IN SOLUTION.

AUTHOR- GIBSON, R.E. [CARNEGIE INSTITUTION OF WASHINGTON, WASHINGTON, D.C. (USA). GEOPHYSICAL LABORATORY].

REFERENCE- J. PHYS. CHEM., V. 31, P. 496-510(1927).

DESCRIPTORS- DENSITY; PYCNOMETERS; SODIUM SULFATES; STANDARD TEMPERATURE; STANDARD PRESSURE; MODERATE TEMPERATURE; DILATOMETERS; ELEVATED CONCENTRATION; HIGH CONCENTRATION; THERMAL EXPANSIVITY; APPARENT MOLAL VOLUME; TABLES; GRAPHS; EMPIRICAL EQUATIONS.

GIBSON 31
SOLUTIONS/VOLUMETRIC

TITLE- THE FICTIVE VOLUMES OF SODIUM SULPHATE IN AQUEOUS SOLUTIONS OF SULPHURIC ACID AND OF IODINE IN AN AQUEOUS SOLUTION OF POTASSIUM IODIDE.

AUTHOR- GIBSON, R.E. [CARNEGIE INSTITUTION OF WASHINGTON, WASHINGTON, D.C. (USA). GEOPHYSICAL LABORATORY].

REFERENCE- J. PHYS. CHEM., V. 35, P. 690-699(1931).

DESCRIPTORS- SODIUM SULFATES; SULFURIC ACID; ELEVATED CONCENTRATION; HIGH CONCENTRATION; DENSITY; STANDARD PRESSURE; STANDARD TEMPERATURE; PYCNOMETERS; APPARENT MOLAL VOLUME; IODINE; POTASSIUM IODIDES; TABLES; GRAPHS; EMPIRICAL EQUATIONS.

GIBSON 34
SOLUTIONS/VOLUMETRIC

TITLE- A NOTE ON THE COMPUTATION OF THE PARTIAL
VOLUMES OF THE COMPONENTS IN AQUEOUS SOLUTIONS.

AUTHOR- GIBSON, R.E. [CARNEGIE INSTITUTION OF
WASHINGTON, WASHINGTON, D.C. (USA). GEOPHYSICAL
LABORATORY].

REFERENCE- J. PHYS. CHEM., V. 38, P. 319-326(1934).

DESCRIPTORS- DENSITY; APPARENT MOLAL VOLUME; SODIUM
CHLORIDES; SODIUM SULFATES; STANDARD
TEMPERATURE; STANDARD PRESSURE; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION;
POTASSIUM CHLORIDES; POTASSIUM IODIDES;
ELECTROLYTES; TABLES; EMPIRICAL EQUATIONS;
PARTIAL MOLAL VOLUME.

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GIBSON 35
SOLUTIONS/VOLUMETRIC

TITLE- THE INFLUENCE OF THE CONCENTRATION AND NATURE
OF THE SOLUTE ON THE COMPRESSIONS OF CERTAIN
AQUEOUS SOLUTIONS.

AUTHOR- GIBSON, R.E. [CARNEGIE INSTITUTION OF
WASHINGTON, WASHINGTON, D.C. (USA). GEOPHYSICAL
LABORATORY].

REFERENCE- J. AM. CHEM. SOC., V. 57, P.
284-293(1935).

DESCRIPTORS- COMPRESSIBILITY; STANDARD PRESSURE;
EXPERIMENTAL RESULTS; HIGH PRESSURE;
PIEZOMETERS; STANDARD TEMPERATURE; POTASSIUM
CHLORIDES; POTASSIUM BROMIDES; LITHIUM
CHLORIDES; LITHIUM IODIDES; SODIUM BROMIDES;
BARIUM CHLORIDES; ELECTROLYTES; SODIUM
CHLORIDES; SODIUM CARBONATES; EMPIRICAL
EQUATIONS; TABLES; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
GRAPHS; PYCNOMETERS.

101

GIBSON 41
SOLUTIONS/VOLUMETRIC

TITLE- PRESSURE-VOLUME-TEMPERATURE RELATIONS IN

SOLUTIONS. IV. THE APPARENT VOLUMES AND THERMAL EXPANSIBILITIES OF SODIUM CHLORIDE AND SODIUM BROMIDE IN AQUEOUS SOLUTIONS BETWEEN 25 AND 95 DEG..

AUTHOR- GIBSON, R.E.; LOEFFLER, O.H. [CARNEGIE INSTITUTION OF WASHINGTON, WASHINGTON, D.C. (USA). GEOPHYSICAL LABORATORY].

REFERENCE- J. AM. CHEM. SOC., V. 63, P. 443-449(1941).

DESCRIPTORS- SODIUM CHLORIDES; EXPERIMENTAL RESULTS; SODIUM BROMIDES; DENSITY; THERMAL EXPANSIVITY; PYCNOMETERS; APPARENT MOLAL VOLUME; STANDARD TEMPERATURE; MODERATE TEMPERATURE; STANDARD PRESSURE; DILATOMETERS; ELEVATED CONCENTRATION; HIGH CONCENTRATION; TABLES; GRAPHS; EMPIRICAL EQUATIONS.

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GINZBURG 64
SOLUTIONS/VOLUMETRIC

TITLE- DENSITY OF POTASSIUM CARBONATE SOLUTIONS.

AUTHOR- GINZBURG, D.M.; PIKULINA, N.S.; LITVIN, V.P. [SCIENTIFIC RESEARCH INSTITUTE OF FUNDAMENTAL CHEMISTRY, KHAR'KOV (USSR)].

REFERENCE- J. APPL. CHEM. USSR, V. 37, P. 2327-2330(1964). ZH. PRIKL. KHIM., V. 37 (11), P. 2353-2357.

DESCRIPTORS- DENSITY; POTASSIUM CARBONATES; HIGH CONCENTRATION; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; PYCNOMETERS; TABLES; EMPIRICAL EQUATIONS; TWO-BULB METHOD; STANDARD

103

GINZBURG 64B
SOLUTIONS/VOLUMETRIC

TITLE- DENSITY OF SODIUM CARBONATE SOLUTIONS.

AUTHOR- GINZBURG, D.M.; PIKULINA, N.S.; LITVIN, V.P. [SCIENTIFIC RESEARCH INSTITUTE OF FUNDAMENTAL CHEMISTRY, KHAR'KOV (USSR)].

REFERENCE- J. APPL. CHEM. USSR, V. 37(12), P. 2710-2711(1964). TRANSLATED FROM ZH. PRIKL. KHIM., V. 37 (12), P. 2749-2750.

DESCRIPTORS- DENSITY; SODIUM CARBONATES; HIGH CONCENTRATION; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; STANDARD TEMPERATURE; TABLES; EMPIRICAL EQUATIONS; TWO-BULB METHOD.

104

GINZBURG 65
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- DENSITIES AND VAPOR PRESSURES OF SODIUM AND POTASSIUM CARBONATE SOLUTIONS.

AUTHOR- GINZBURG, D.M. [SCIENTIFIC RESEARCH INSTITUTE OF FUNDAMENTAL CHEMISTRY, KHAR'KOV (USSR)].

REFERENCE- J. APPL. CHEM. USSR, V. 38, P. 50-53(1965). TRANSLATED FROM ZH. PRIKL. KHIM., V. 38 (1), P. 55-58.

DESCRIPTORS- DENSITY; VAPOR PRESSURE; SODIUM CARBONATES; POTASSIUM CARBONATES; ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; STANDARD PRESSURE; LOW PRESSURE; POTASSIUM SULFATES; LOW TEMPERATURE; TABLES; GRAPHS; EMPIRICAL EQUATIONS; TWO-BULB METHOD.

105

GORBACHEV 74
SOLUTIONS/VOLUMETRIC

TITLE- THE SPECIFIC VOLUMES OF AQUEOUS POTASSIUM BROMIDE, IODIDE, AND NITRATE SOLUTIONS.

AUTHOR- GORBACHEV, S.V.; KONDRAT'EV, V.P.; ANDROSOV, V.I. [MENDELEEV MOSCOW INSTITUTE OF CHEMICAL ENGINEERING (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 48 (11), P. 1581-1583(1974). TRANSLATED FROM ZH. FIZ. KHIM., V. 48 (11), P. 2675-2677 (1974).

DESCRIPTORS- DENSITY; MODERATE PRESSURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; ELEVATED CONCENTRATION; HIGH CONCENTRATION; POTASSIUM BROMIDES; POTASSIUM NITRATES; TABLES; GRAPHS; APPARENT MOLAL VOLUME; THERMAL EXPANSIVITY;

GLEIM 69
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- EFFECT OF TEMPERATURE ON THE DENSITIES,
VISCOSITIES AND CONDUCTANCES OF MIXED AQUEOUS
SOLUTIONS OF SODIUM CHLORIDE, PHOSPHATE, AND
SILICATE.

AUTHOR- GLEIM, V.G.; VISHNEVETSKAYA, A.N.; KHENTOV,
V.YA. [ROSTOV-ON-DON INSTITUTE (USSR). RAILWAY
ENGINEERING].

REFERENCE- RUSS. J. PHYS. CHEM., V. 43 (2), P.
278-280(1969). ZH. FIZ. KHIM., V. 43 (2), P.
510-512 (1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; ELECTRIC CONDUCTIVITY; VISCOSITY;
MODERATE CONCENTRATION; STANDARD PRESSURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
PYCNOMETERS; ELECTROLYTES; SILICATES; SODIUM
CHLORIDES.

GORBACHEV 71
SOLUTIONS/VOLUMETRIC

TITLE- EXPERIMENTAL STUDY OF THE SPECIFIC VOLUMES OF
ELECTROLYTE SOLUTIONS.

AUTHOR- GORBACHEV, S.V.; KONDRAT'EV, V.P.; ANDROSOV,
V.I. [MENDELEEV MOSCOW INSTITUTE OF CHEMICAL
ENGINEERING (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 45 (6), P.
888-889(1971). TRANSLATED FROM ZH. FIZ. KHIM.,
V. 45 (6), P. 1566-1567 (1971).

DESCRIPTORS- TABLES; DENSITY; EXPERIMENTAL RESULTS;
ELEVATED CONCENTRATION; MODERATE PRESSURE;
MODERATE TEMPERATURE; ELEVATED TEMPERATURE;
PYCNOMETERS; POTASSIUM CHLORIDES.

GREELEY 60
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE MEASUREMENTS IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES. II.
THERMODYNAMIC PROPERTIES OF HYDROCHLORIC ACID.

AUTHOR- GREELEY, R.S.; SMITH, W.T.; LIETZKE,
M.H.; STOUGHTON, R.W. [OAK RIDGE NATIONAL LAB.,
TENN. (USA). CHEMISTRY DIVISION; TENNESSEE
UNIV., KNOXVILLE (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 64, P.
1445-1448(1960).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD PRESSURE; MODERATE
PRESSURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ACTIVITY
COEFFICIENT; OSMOTIC COEFFICIENT; PARTIAL MOLAL
ENTHALPY; PARTIAL MOLAL SPECIFIC HEAT;
HYDROCHLORIC ACID.

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GREELEY 60B
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES. I. THE
STANDARD POTENTIAL OF THE SILVER-SILVER
CHLORIDE ELECTRODE.

AUTHOR- GREELEY, R.S.; SMITH, W.T.; STOUGHTON,
R.W.; LIETZKE, M.H. [OAK RIDGE NATIONAL LAB.,
TENN. (USA). CHEMISTRY DIVISION; TENNESSEE
UNIV., KNOXVILLE (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 64, P. 652-657(1960).

DESCRIPTORS- EXPERIMENTAL RESULTS; ELECTROMOTIVE
FORCE; SILVER CHLORIDES; EMPIRICAL EQUATIONS;
TABLES; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
PRESSURE; MODERATE PRESSURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; ACTIVITY COEFFICIENT; MEASURING
INSTRUMENTS; HYDROCHLORIC ACID.

110

TITLE- THE COMPRESSIBILITY OF SOLUTIONS. I. THE APPARENT MOLAL COMPRESSIBILITY OF STRONG ELECTROLYTES.

AUTHOR- GUCKER, F.T. [NORTHWESTERN UNIV., EVANSTON, ILL. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 55, P. 2709-2718(1933).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; COMPRESSIBILITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; LOW TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

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GUCKER 33B
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- THE APPARENT MOLAL HEAT CAPACITY, VOLUME, AND COMPRESSIBILITY OF ELECTROLYTES.

AUTHOR- GUCKER, F.T. [NORTHWESTERN UNIV., EVANSTON, ILL. (USA). DEPT. OF CHEMISTRY].

REFERENCE- CHEM. REV., V. 13, P. 111-130(1933).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; APPARENT MOLAL VOLUME; COMPRESSIBILITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; APPARENT MOLAL SPECIFIC HEAT; ELECTROLYTES; BARIUM CHLORIDES; CALCIUM CHLORIDES; HYDROCHLORIC ACID; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; POTASSIUM HYDROXIDES; SODIUM CHLORIDES; SODIUM HYDROXIDES.

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GUCKER 34
SOLUTIONS/VOLUMETRIC

TITLE- THE APPARENT MOLAL EXPANSIBILITY OF ELECTROLYTES AND THE COEFFICIENT OF EXPANSIBILITY (THERMAL EXPANSION) AS A FUNCTION OF CONCENTRATION.

AUTHOR- GUCKER, F.T. [NORTHWESTERN UNIV., EVANSTON,

ILL. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 56, P.
1017-1021(1934).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; APPARENT MOLAL VOLUME; THERMAL
EXPANSIVITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; HYDROCHLORIC ACID; LITHIUM
CHLORIDES; POTASSIUM FLUORIDES; SODIUM
CHLORIDES; SODIUM HYDROXIDES; SODIUM SULFATES.

113

GUCKER 34B
SOLUTIONS/VOLUMETRIC

TITLE- THE CALCULATION OF PARTIAL MOLAL SOLUTE
QUANTITIES AS FUNCTIONS OF THE VOLUME
CONCENTRATION WITH SPECIAL REFERENCE TO THE
APPARENT MOLAL VOLUME.

AUTHOR- GUCKER, F.T. [NORTHWESTERN UNIV., EVANSTON,
ILL. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 38, P. 307-317(1934).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; APPARENT MOLAL VOLUME; DENSITY; PARTIAL
MOLAL VOLUME; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES.

114

GUCKER 66
SOLUTIONS/VOLUMETRIC

TITLE- A FREQUENCY-MODULATED ULTRASONIC
INTERFEROMETER/ADIABATIC COMPRESSIBILITY OF
AQUEOUS SOLUTIONS OF NaCl AND KCl AT 25 C.

AUTHOR- GUCKER, F.T.; CHERNICK, C.L.; ROY-CHOWDHURY,
P. [INDIANA UNIV., BLOOMINGTON (USA). CHEMICAL
LABORATORY].

REFERENCE- PROC. NAT. ACAD. SCI. USA, V. 55, P.
12-19(1966).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; APPARENT MOLAL VOLUME;
COMPRESSIBILITY; DENSITY; ELEVATED

CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; MEASURING
INSTRUMENTS; PYCNOMETERS; POTASSIUM CHLORIDES;
SODIUM CHLORIDES.

115

GUGGENHEIM 66
SOLUTIONS/THERMODYNAMICS

TITLE- MIXTURES OF 1/1 ELECTROLYTES.

AUTHOR- GUGGENHEIM, E.A. [READING UNIV. (UK). DEPT.
OF CHEMISTRY].

REFERENCE- TRANS. FARADAY SOC., V. 62 (12), P.
3446-3450(1966).

DESCRIPTORS- THEORETICAL TREATMENTS; THERMODYNAMICS;
ACTIVITY COEFFICIENT; ENTHALPY; FREE ENERGY;
OSMOTIC COEFFICIENT; ELECTROLYTES.

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HAAS 70
SOLUTIONS/VOLUMETRIC

TITLE- AN EQUATION FOR THE DENSITY OF
VAPOR-SATURATED NA₂CO₃-H₂O SOLUTIONS FROM 75 TO
325 C.

AUTHOR- HAAS, J.L. [GEOLOGICAL SURVEY, WASHINGTON,
D.C. (USA)].

REFERENCE- AM. J. SCI., V.269, P. 489-493(1970).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; APPARENT MOLAL VOLUME; DENSITY; SODIUM
CHLORIDES; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; MODERATE
PRESSURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE.

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HAAS 71
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- THE EFFECT OF SALINITY ON THE MAXIMUM THERMAL

GRADIENT OF A HYDROTHERMAL SYSTEM AT
HYDROSTATIC PRESSURE.

AUTHOR- HAAS, J.L. [GEOLOGICAL SURVEY, WASHINGTON,
D.C. (USA)].

REFERENCE- ECON. GEOL., V.66, P.940-946(1971).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; APPARENT MOLAL VOLUME; DENSITY; VAPOR
PRESSURE; SODIUM CHLORIDES; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; MODERATE PRESSURE; ELEVATED PRESSURE;
MODERATE TEMPERATURE; ELEVATED TEMPERATURE.

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HALASEY 41
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL MOLAL VOLUMES OF POTASSIUM SALTS OF
THE HOFMEISTER SERIES.

AUTHOR- HALASEY, M.E. [SAINT LOUIS UNIV., MO. (USA).
DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 45, P.
1252-1263(1941).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; APPARENT MOLAL
VOLUME; DENSITY; PARTIAL MOLAL VOLUME;
DILATOMETERS; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES; POTASSIUM IODIDES; POTASSIUM
NITRATES; POTASSIUM SULFATES; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE.

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HARA 32
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- THE SPECIFIC GRAVITY AND THE VAPOR PRESSURE
OF CONCENTRATED SEA WATER AT 0-175 C.

AUTHOR- HARA, R.; NAKAMURA, K.; HIGASHI, K.

REFERENCE- TOHOKU IMPERIAL UNIV. TECH. REPORT, V.
10, P. 433-452(1932).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; VAPOR PRESSURE; DILATOMETERS;
ISOTENISCOPE; PYCNOMETERS; SEA WATER; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
PRESSURE; STANDARD PRESSURE; MODERATE PRESSURE;
LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE.

120

HELGESON 70

TITLE- A CHEMICAL AND THERMODYNAMIC MODEL OF ORE
DEPOSITION IN HYDROTHERMAL SYSTEMS.

AUTHOR- HELGESON, H.C. [CALIFORNIA UNIV., BERKELEY
(USA). DEPT. OF GEOLOGY AND GEOPHYSICS].

REFERENCE- MINERAL. SOC. AM., SPEC. PAP., V.3,
P.155-186(1970).

DESCRIPTORS- REVIEWS; EXPERIMENTAL RESULTS; GRAPHS;
TABLES; THERMODYNAMICS; ACTIVITY COEFFICIENT;
FUGACITY; PHASE DIAGRAMS; ELECTROLYTES; IONS;
MINERALS; SILICATES; CALCIUM CARBONATES;
CALCIUM CHLORIDES; HYDROCHLORIC ACID; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; SULFURIC ACID;
ROCKS; HYDROGEN SULFIDES; LOW CONCENTRATION;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD PRESSURE; MODERATE
PRESSURE; ELEVATED PRESSURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE.

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HELGESON 74
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/VOLUMETRIC

TITLE- THEORETICAL PREDICTION OF THE THERMODYNAMIC
BEHAVIOR OF AQUEOUS ELECTROLYTES AT HIGH
PRESSURES AND TEMPERATURES/II. DEBYE-HUCKEL
PARAMETERS FOR ACTIVITY COEFFICIENTS AND
RELATIVE PARTIAL MOLAL PROPERTIES.

AUTHOR- HELGESON, H.C.; KIRKHAM, D.H. [CALIFORNIA
UNIV., BERKELEY (USA). DEPT. OF GEOLOGY AND
GEOPHYSICS].

REFERENCE- AM. J. SCI., V. 274, P. 1199-1261(1974).

DESCRIPTORS- THEORETICAL TREATMENTS; GRAPHS;
COMPRESSIBILITY; DIELECTRIC CONSTANT; THERMAL
EXPANSIVITY; PARTIAL MOLAL VOLUME;

THERMODYNAMICS; ACTIVITY COEFFICIENT; ENTHALPY;
SPECIFIC HEAT; ELECTROLYTES; WATER.

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HELGESON 74B

TITLE- THEORETICAL PREDICTION OF THE THERMODYNAMIC
BEHAVIOR OF AQUEOUS ELECTROLYTES AT HIGH
PRESSURES AND TEMPERATURES/1. SUMMARY OF THE
THERMODYNAMIC/ELECTROSTATIC PROPERTIES OF THE
SOLVENT.

AUTHOR- HELGESON, H.C.; KIRKHAM, D.H. [CALIFORNIA
UNIV. BERKELEY (USA). DEPT. OF GEOLOGY AND
GEOPHYSICS].

REFERENCE- AM. J. SCI., V. 274, P. 1089-1198(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
COMPRESSIBILITY; DIELECTRIC CONSTANT; THERMAL
EXPANSIVITY; MOLAL VOLUME; STANDARD PRESSURE;
MODERATE PRESSURE; ELEVATED PRESSURE; HIGH
PRESSURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; HIGH
TEMPERATURE; ENTHALPY; ENTROPY; FREE ENERGY;
FUGACITY; SPECIFIC HEAT; WATER.

123

IKORNIKOVA 71
SOLUTIONS/VOLUMETRIC

TITLE- EXPERIMENTALLY DETERMINED PTFC DIAGRAMS OF
AQUEOUS SOLUTIONS OF LI, NA, K, AND, CS
CHLORIDES.

AUTHOR- IKORNIKOVA, N.YU.; EGOROV, V.M.

LOBACHEV, A.N. (ED.)

REFERENCE-

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
DENSITY; AUTOCLAVES; CESIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; HIGH CONCENTRATION; MODERATE
PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE;
ELEVATED TEMPERATURE; HIGH TEMPERATURE.

124

IKORNIKOVA 71B
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- AQUEOUS SOLUTIONS OF ELECTROLYTES AS MEDIA
FOR HYDROTHERMAL SYNTHESIS OF CRYSTALS
(REVIEW).

AUTHOR- IKORNIKOVA, N.YU.

LOBACHEV, A.N. (ED.)

REFERENCE- HYDROTHERMAL SYNTHESIS OF CRYSTALS.
CONSULTANTS BUREAU, NEW YORK, 1971, P.1-24.

DESCRIPTORS- REVIEWS; DENSITY; DIFFUSION; VAPOR
PRESSURE; ION MOBILITY; ACTIVITY COEFFICIENT;
SOLUTION HEAT; ELECTROLYTES; SILICATES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; SODIUM HYDROXIDES.

125

JONES 33
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- THE VISCOSITY OF AQUEOUS SOLUTIONS AS A
FUNCTION OF THE CONCENTRATION.

AUTHOR- JONES, G.; TALLEY, S.K. [HARVARD UNIV.,
CAMBRIDGE, MASS. (USA)].

REFERENCE- J. AM. CHEM. SOC., V.55, P.624-642(1933).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES;
EXPERIMENTAL RESULTS; DENSITY; VISCOSITY;
PYCNOMETERS; OSTWALD VISCOMETER; ELECTROLYTES;
POTASSIUM CHLORIDES; POTASSIUM NITRATES; LOW
CONCENTRATION; MODERATE CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE.

126

JONES 71
SOLUTIONS/THERMODYNAMICS

TITLE- ON THE ACCURACY OF THEORIES OF THE PRIMITIVE
MODEL OF IONIC SOLUTIONS.

AUTHOR- JONES, R.W. [SOUTH DAKOTA UNIV., VERMILLION
(USA). DEPT. OF PHYSICS; OAK RIDGE NATIONAL

LAB., TENN. (USA)].

MOHLING, F. [COLORADO UNIV., BOULDER (USA).
DEPT. OF PHYSICS AND ASTROPHYSICS].

REFERENCE- J. PHYS. CHEM., V.75(25),
P.3790-3796(1971).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION;
THERMODYNAMICS; ACTIVITY COEFFICIENT; FREE
ENERGY.

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KHAIBULLIN 63
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- INVESTIGATION OF THE DENSITY OF A LIQUID
PHASE SYSTEM BY THE GAMMA RADIATION
TRANSMISSION METHOD. (IN RUSSIAN).

AUTHOR- KHAIBULLIN, I.KH.;BORISOV, N.M.

REFERENCE- TEPLOENERGETIKA, V. 10, P. 78-82(1963).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
DENSITY; VAPOR PRESSURE; MEASURING INSTRUMENTS;
GAMMA RAY ABSORPTION; SODIUM CHLORIDES;
MODERATE CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; MODERATE PRESSURE; ELEVATED
PRESSURE; ELEVATED TEMPERATURE; HIGH

128

KLARMANN 50
SOLUTIONS/VOLUMETRIC

TITLE- THE DETERMINATION OF THE DENSITY OF AQUEOUS
SALT SOLUTIONS. (IN GERMAN). UBER DIE
ERMITTLUNG DER DICHTEN WASSRIGER SALZLOSUNGEN.

AUTHOR- KLARMANN, B.

REFERENCE- Z. ANAL. CHEM., V.130, P.186-192(1950).

DESCRIPTORS- TABLES; DENSITY; ELECTROLYTES; CADMIUM
IODIDES; LITHIUM CHLORIDES; MAGNESIUM SULFATES;
POTASSIUM CARBONATES; POTASSIUM CHLORIDES;
POTASSIUM IODIDES; POTASSIUM SULFATES; SODIUM
BICARBONATES; SODIUM BISULFIDES; SODIUM
BROMIDES; SODIUM CARBONATES; SODIUM CHLORIDES;

SODIUM IODIDES; SODIUM SULFATES; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE.

129

KLEVTSOV 59
SOLUTIONS/VOLUMETRIC

TITLE- CONCERNING THE DENSITY OF SOLUTIONS IN THE
SYSTEM H₂O-NACL-KCL. (IN RUSSIAN).

AUTHOR- KLEVTSOV, P.V.

REFERENCE- ZAP. VSES. MINERAL. OVA, V.88,
P.93-96(1959).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
EXPERIMENTAL RESULTS; DENSITY; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; HIGH
CONCENTRATION; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE.

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KLOTZ 42
SOLUTIONS/VOLUMETRIC

TITLE- THE APPARENT MOLAL VOLUMES OF AQUEOUS
SOLUTIONS OF SULFURIC ACID AT 25 DEGREES.

AUTHOR- KLOTZ, I.M.; ECKERT, C.F. (NORTHWESTERN
UNIV., EVANSTON, ILL. (USA)).

REFERENCE- J. AM. CHEM. SOC., V.64, P.
1878-1880(1942).

DESCRIPTORS- GRAPHS; TABLES; APPARENT MOLAL VOLUME;
DENSITY; HYDROSTATIC WEIGHING; SULFURIC ACID;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE.

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KONDRAT'EV 73
SOLUTIONS/VOLUMETRIC

TITLE- AN APPROXIMATE EQUATION FOR THE TEMPERATURE
VARIATION OF THE DENSITY OF A LIQUID.

AUTHOR- KONDRAT'EV, V.P.; ANDROSOV, V.I.

REFERENCE- RUSS. J. PHYS. CHEM., V. 47 (11), P.
1554-1556(1973). TRANSLATED FROM ZH. FIZ.
KHM., V. 47 (11), P. 2768-2770 (1973).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; DENSITY; POTASSIUM
CHLORIDES; MODERATE CONCENTRATION; HIGH
CONCENTRATION; ELEVATED PRESSURE; HIGH
PRESSURE; LOW TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE.

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LAMB 13
SOLUTIONS/VOLUMETRIC

TITLE- THE DENSITIES OF CERTAIN DILUTE AQUEOUS
SOLUTIONS BY A NEW AND PRECISE METHOD.

AUTHOR- LAMB, A.B.; LEE, R.E.

REFERENCE- J. AM. CHEM. SOC., V. 35, P.
1666-1693(1913).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; DENSITY; MOLAL
VOLUME; LOW CONCENTRATION; STANDARD PRESSURE;
LOW TEMPERATURE; MEASURING INSTRUMENTS;
MAGNETIC FLOAT METHOD; ELECTROLYTES; LITHIUM
CHLORIDES; MAGNESIUM SULFATES; POTASSIUM
CHLORIDES; SODIUM CARBONATES; SODIUM CHLORIDES.

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LA MER 31
SOLUTIONS/THERMODYNAMICS

TITLE- THE INFLUENCE OF HIGHER TERMS OF THE
DEBYE-HUCKEL THEORY IN THE CASE OF UNSYMMETRIC
VALENCE TYPE ELECTROLYTES.

AUTHOR- LA MER, V.K.; GRONWALL, T.H.; GREIFF, L.J.

REFERENCE- J. PHYS. CHEM., P. 2245-2288(1931).

DESCRIPTORS- THEORETICAL TREATMENTS; MELTING POINT;
SOLUBILITY; LOW CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; THERMODYNAMICS;
FREE ENERGY; OSMOTIC COEFFICIENT; ELECTROLYTES.

LEGRAND 66
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- NO 446.-STUDY AT 20 C OF THE SYSTEMS/WATER,
FERROUS SULFATE, POTASSIUM SULFATE/WATER,
FERROUS CHLORIDE, FERROUS SULFATE/WATER,
FERROUS CHLORIDE, POTASSIUM CHLORIDE/WATER,
POTASSIUM CHLORIDE, POTASSIUM SULFATE. (IN
FRENCH). NO 446.-ETUDE A 20 C DES
SYSTEMES/EAU, SULFATE FERREUX, SULFATE DE
POTASSIUM/EAU, CHLORURE FERREUX, SULFATE
FERREUX/EAU, CHLORURE FERREUX, CHLORURE DE
POTASSIUM/EAU, CHLORURE DE POTASSIUM, SULFATE
DE POTASSIUM.

AUTHOR- LEGRAND, M.;PARIS, R.A.

REFERENCE- BULL. SOC. CHIM. FR., V. 8, P.
2699-2701(1966).

DESCRIPTORS- TABLES; DENSITY; SOLUBILITY;
EXPERIMENTAL RESULTS; STANDARD PRESSURE; LOW
TEMPERATURE; PYCNOMETERS; ELECTROLYTES;
POTASSIUM CHLORIDES; POTASSIUM SULFATES.

LIETZKE 61B
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THE BISULFATE ACID CONSTANT FROM 25 TO 225
DEGREES AS COMPUTED FROM SOLUBILITY DATA.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA). CHEMISTRY DIVISION].

YOUNG, T.F. [CHICAGO UNIV., ILL. (USA).
DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 65, P.
2247-2249(1961).

DESCRIPTORS- EQUILIBRIUM CONSTANT; IONS; EMPIRICAL
EQUATIONS; TABLES; DISSOCIATION CONSTANT;
SOLUBILITY; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ENTHALPY;
ENTROPY; FREE ENERGY; SULFURIC ACID; SILVER
SULFATES.

LINDSAY 71B
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- PREPARED DISCUSSION.

AUTHOR- LINDSAY, W.T.

REFERENCE- PROCEEDINGS, 32ND INTERNATIONAL WATER
CONFERENCE. P. 62-65.

DESCRIPTORS- GRAPHS; DISSOCIATION CONSTANT;
EQUILIBRIUM CONSTANT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; ELEVATED TEMPERATURE;
ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT;
CESIUM CHLORIDES; HYDROCHLORIC ACID; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; WATER; BORIC ACID.

MAKSIMOVA 63
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- ELECTRICAL CONDUCTIVITY OF SODIUM HYDROXIDE
SOLUTIONS AT HIGH TEMPERATURES.

AUTHOR- MAKSIMOVA, I.N.; YUSHKEVICH, V.F.
[LENINGRADSKIJ TEKHNOLOGICHESKIJ INST. (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 37 (4), P.
475-477 (1963). TRANSLATED FROM ZH. FIZ. KHIM.,
V. 37, P. 903-907 (1963).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; ELECTRIC CONDUCTIVITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SODIUM HYDROXIDES.

MAKSIMOVA 73
SOLUTIONS/VOLUMETRIC

TITLE- THE DENSITY OF AQUEOUS ELECTROLYTE SOLUTIONS.
(IN RUSSIAN).

AUTHOR- MAKSIMOVA, I.N.; FOTEROV, N.V.

REFERENCE- UKR. KHEM. ZH., V. 39, P. 234-237(1973).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; DENSITY;
MOLAL VOLUME; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; LOW TEMPERATURE; MODERATE
TEMPERATURE; ELECTROLYTES; MAGNESIUM SULFATES;
POTASSIUM BROMIDES; POTASSIUM IODIDES;
POTASSIUM SULFATES; SODIUM CHLORIDES; SODIUM
IODIDES; SODIUM SULFATES.

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MARSHALL 65
SOLUTIONS/MISC.

TITLE- AQUEOUS SYSTEMS AT HIGH TEMPERATURES. XV.
SOLUBILITY AND HYDROLYTIC INSTABILITY OF
MAGNESIUM SULFATE IN SULFURIC ACID-WATER AND
DEUTEROSULFURIC ACID-DEUTERIUM OXIDE SOLUTIONS,
200 TO 350 C.

AUTHOR- MARSHALL, W.L.; SLUSHER, R. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 10 (4), P.
353-358(1965).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
SOLUBILITY; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; ELEVATED TEMPERATURE; HEAVY
WATER; MAGNESIUM SULFATES; SULFURIC ACID.

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MARSHALL 72
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- PREDICTIONS OF THE GEOCHEMICAL BEHAVIOR OF
AQUEOUS ELECTROLYTES AT HIGH TEMPERATURES AND
PRESSURES.

AUTHOR- MARSHALL, W.L. [OAK RIDGE NATIONAL LAB.,
TENN. (USA)].

REFERENCE- CHEM. GEOL., V. 10, P. 59-68(1972).

DESCRIPTORS- REVIEWS; GRAPHS; DISSOCIATION CONSTANT;
ELECTRIC CONDUCTIVITY; PARTIAL MOLAL VOLUME;
ELEVATED CONCENTRATION; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE; HIGH TEMPERATURE;

MIKHAILOV 57
SOLUTIONS/VOLUMETRIC

TITLE- THE ULTRASONIC VELOCITY AND COMPRESSIBILITY
OF STRONG ELECTROLYTE SOLUTIONS = IN RUSSIAN.

AUTHOR- MIKHAILOV, I.G.; SAVINA, L.I.; FEOFANOV, G.N.

REFERENCE- LENINGRAD UNIV. VESTNIK, SER. FIZ. KHIM.,
V. 1957 (4), P. 25-42(1957).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; COMPRESSIBILITY;
DENSITY; VELOCITY OF SOUND; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; BARIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
IODIDES; POTASSIUM NITRATES; SODIUM BROMIDES;
SODIUM CARBONATES; SODIUM CHLORIDES; SODIUM
NITRATES; SODIUM SULFATES.

MILLERO 72C
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THE PARTIAL MOLAL VOLUMES OF ELECTROLYTES IN
AQUEOUS SOLUTIONS. CHAPTER 13.

AUTHOR- MILLERO, F.J.

HORNE, R.A. (ED.)

REFERENCE- WATER AND AQUEOUS SOLUTIONS. STRUCTURE,
THERMODYNAMICS, AND TRANSPORT PROCESSES.
WILEY-INTERSCIENCE, NEW YORK, 1972, P. 519-595.

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; TABLES;
THERMAL EXPANSIVITY; PARTIAL MOLAL VOLUME;
VISCOSITY; INFINITE DILUTION; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE; PARTIAL MOLAL ENTROPY;
ELECTROLYTES; IONS; CALCIUM CHLORIDES; CESIUM
CHLORIDES; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

MILLERO 73B
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT MOLAL VOLUMES OF AQUEOUS NAF,
NA₂SO₄, KCL, K₂SO₄, MGCL₂, MGSO₄ SOLUTIONS AT 0
AND 50 C.

AUTHOR- MILLERO, F.J.;KNOX, J.H. [MIAMI UNIV., FLA.
(USA). ROSENSTIEL SCHOOL OF MARINE AND
ATMOSPHERIC SCIENCES].

REFERENCE- J. CHEM. ENG. DATA, V. 18 (4), P.
407-11(1973).

DESCRIPTORS- TABLES; APPARENT MOLAL VOLUME;
EXPERIMENTAL RESULTS; DENSITY; THERMAL
EXPANSIVITY; PARTIAL MOLAL VOLUME; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; MAGNETIC FLOAT METHOD; MAGNESIUM
CHLORIDES; MAGNESIUM SULFATES; POTASSIUM
CHLORIDES; POTASSIUM SULFATES; SODIUM
FLUORIDES; SODIUM SULFATES.

MILLERO 74
SOLUTIONS/VOLUMETRIC

TITLE- ISOTHERMAL COMPRESSIBILITY OF AQUEOUS SODIUM
CHLORIDE, MAGNESIUM CHLORIDE, SODIUM SULFATE,
AND MAGNESIUM SULFATE SOLUTIONS FROM 0 TO 45 C
AT 1 ATM.

AUTHOR- MILLERO, F.J.;WARD, G.K.;LEPPLE, F.K.;HOFF,
E.V. [MIAMI UNIV., FLA. (USA). ROSENSTIEL
SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES].

REFERENCE- J. PHYS. CHEM., V. 78 (16), P.
1636-1643(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; COMPRESSIBILITY;
HYDRATION NUMBER; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; PIEZOMETERS; IONS; MAGNESIUM
CHLORIDES; MAGNESIUM SULFATES; SODIUM
CHLORIDES; SODIUM SULFATES.

O'REILLY 70
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- ROTATIONAL CORRELATION TIMES AND COEFFICIENTS
OF VISCOSITY OF ELECTROLYTIC SOLUTIONS.

AUTHOR- O'REILLY, D.E.; PETERSON, E.M. [ARGONNE
NATIONAL LAB., ILL. (USA)].

REFERENCE- J. PHYS. CHEM., V. 74 (17), P.
3280-3285(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; APPARENT MOLAL
VOLUME; DIFFUSION; VISCOSITY; RELAXATION TIME;
LOW TEMPERATURE; STANDARD TEMPERATURE;
ELECTROLYTES; CESIUM CHLORIDES; HEAVY WATER;
LITHIUM CHLORIDES; MAGNESIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

OSTAPENKO 71
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL AND APPARENT MOLAR VOLUMES IN AQUEOUS
LITHIUM CHLORIDE, SODIUM CHLORIDE, AND
POTASSIUM CHLORIDE SOLUTIONS AT HIGH
TEMPERATURES AND PRESSURES.

AUTHOR- OSTAPENKO, G.T.; SAMOILOVICH, L.A.

REFERENCE- RUSS. J. PHYS. CHEM., V. 45 (8), P.
1198-1199(1971). TRANSLATED FROM ZH. FIZ.
KHIM., V. 45 (8), P. 2112 (1971).

DESCRIPTORS- APPARENT MOLAL VOLUME; PARTIAL MOLAL
VOLUME.

OUTHWAITE 69
SOLUTIONS/THERMODYNAMICS

TITLE- EXTENSION OF THE DEBYE-HUCKEL THEORY OF
ELECTROLYTE SOLUTIONS.

AUTHOR- OUTHWAITE, C.W. [SHEFFIELD UNIV. (UK). DEPT.
OF APPLIED MATHEMATICS].

REFERENCE- J. CHEM. PHYS., V. 50 (6), P.
2277-2288(1969).

DESCRIPTORS- THEORETICAL TREATMENTS; THERMODYNAMICS;
EXPERIMENTAL RESULTS; ACTIVITY COEFFICIENT;
OSMOTIC COEFFICIENT; ELECTROLYTES.

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OWEN 41
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- CALCULATION OF THE EFFECT OF PRESSURE UPON
IONIC EQUILIBRIA IN PURE WATER AND IN SALT
SOLUTIONS.

AUTHOR- OWEN, B.B.; BRINKLEY, S.R. [YALE UNIV., NEW
HAVEN, CONN. (USA). DEPT. OF CHEMISTRY].

REFERENCE- CHEM. REV., V. 29, P. 461-474(1941).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; COMPRESSIBILITY; DISSOCIATION CONSTANT;
EQUILIBRIUM CONSTANT; PARTIAL MOLAL VOLUME;
INFINITE DILUTION; ELEVATED CONCENTRATION;
STANDARD PRESSURE; ELEVATED PRESSURE; HIGH
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ENTHALPY;
ENTROPY; ELECTROLYTES; IONS; BARIUM CHLORIDES;
CALCIUM CARBONATES; CALCIUM CHLORIDES; CESIUM
CHLORIDES; HYDROCHLORIC ACID; LITHIUM BROMIDES;
LITHIUM CHLORIDES; LITHIUM IODIDES; MAGNESIUM
CHLORIDES; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES; POTASSIUM FLUORIDES; POTASSIUM
HYDROXIDES; POTASSIUM IODIDES; POTASSIUM
NITRATES; POTASSIUM SULFATES; SODIUM BROMIDES;
SODIUM CHLORIDES; SODIUM HYDROXIDES; SODIUM
IODIDES; SODIUM SULFATES; WATER.

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OWEN 44
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- SOME EFFECTS OF PRESSURE UPON THE PROPERTIES
OF LIQUIDS AND SOLUTIONS OF ELECTROLYTES.

AUTHOR- OWEN, B.B. [YALE UNIV., NEW HAVEN, CONN.
(USA)].

REFERENCE- J. CHEM. EDUC., V. 21, P. 59-63(1944).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; COMPRESSIBILITY; DENSITY; DIELECTRIC
CONSTANT; PARTIAL MOLAL VOLUME; INFINITE
DILUTION; HIGH CONCENTRATION; STANDARD
PRESSURE; HIGH PRESSURE; STANDARD TEMPERATURE;
BARIUM CHLORIDES; CESIUM CHLORIDES; LITHIUM
BROMIDES; LITHIUM CHLORIDES; LITHIUM IODIDES;
POTASSIUM BROMIDES; POTASSIUM CHLORIDES;
POTASSIUM IODIDES; SODIUM BROMIDES; SODIUM
CHLORIDES; SODIUM IODIDES; WATER.

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OWEN 57
SOLUTIONS/VOLUMETRIC

TITLE- STANDARD PARTIAL MOLAL COMPRESSIBILITIES BY
ULTRASONICS. I. SODIUM CHLORIDE AND POTASSIUM
CHLORIDE AT 25 C.

AUTHOR- OWEN, B.B.; SIMONS, H.L. [YALE UNIV., NEW
HAVEN, CONN. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 61, P. 479-482(1957).

DESCRIPTORS- GRAPHS; INFINITE DILUTION; EMPIRICAL
EQUATIONS; TABLES; EXPERIMENTAL RESULTS;
APPARENT MOLAL VOLUME; COMPRESSIBILITY;
VELOCITY OF SOUND; LOW CONCENTRATION; MODERATE
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; POTASSIUM CHLORIDES; SODIUM
CHLORIDES.

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OWEN 61
SOLUTIONS/VOLUMETRIC

TITLE- STANDARD PARTIAL MOLAL COMPRESSIBILITIES BY
ULTRASONICS. II. SODIUM AND POTASSIUM CHLORIDES
AND BROMIDES FROM 0 TO 30 DEGREES.

AUTHOR- OWEN, B.B.; KRONICK, P.L. [YALE UNIV., NEW
HAVEN, CONN. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 65, P. 84-87(1961).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; APPARENT MOLAL
VOLUME; COMPRESSIBILITY; VELOCITY OF SOUND;
INFINITE DILUTION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; SODIUM BROMIDES;

SODIUM CHLORIDES; WATER.

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PARK 72
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- SEAWATER. CHAPTER 6.

AUTHOR- PARK, P.K.

HORNE, R.A. (ED.)

REFERENCE- WATER AND AQUEOUS SOLUTIONS. STRUCTURE,
THERMODYNAMICS, AND TRANSPORT PROCESSES.
WILEY-INTERSCIENCE, NEW YORK, 1972, P. 245-264.

DESCRIPTORS- REVIEWS; GRAPHS; TABLES;
COMPRESSIBILITY; DENSITY; DIFFUSION; ELECTRIC
CONDUCTIVITY; THERMAL EXPANSIVITY; MELTING
POINT; THERMAL CONDUCTIVITY; VAPOR PRESSURE;
VISCOSITY; THERMAL DIFFUSIVITY; SURFACE
TENSION; ELEVATED CONCENTRATION; STANDARD
PRESSURE; MODERATE PRESSURE; ELEVATED PRESSURE;
HIGH PRESSURE; LOW TEMPERATURE; OSMOTIC
COEFFICIENT; SPECIFIC HEAT; SEA WATER; SODIUM
CHLORIDES; WATER.

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PARKER 65
SOLUTIONS/THERMODYNAMICS

TITLE- THERMAL PROPERTIES OF AQUEOUS UNI-UNIVALENT
ELECTROLYTES.

AUTHOR- PARKER, V.B.

REFERENCE- THERMAL PROPERTIES OF AQUEOUS
UNI-UNIVALENT ELECTROLYTES. NSRDS-NBS2,
NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.,
1965, 66 P..

DESCRIPTORS- REVIEWS; GRAPHS; TABLES; INFINITE
DILUTION; STANDARD PRESSURE; STANDARD
TEMPERATURE; APPARENT MOLAL SPECIFIC HEAT;
ENTHALPY; PARTIAL MOLAL SPECIFIC HEAT; SOLUTION
HEAT; SPECIFIC HEAT; DILUTION HEAT;
ELECTROLYTES; IONS; LITHIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES; WATER.

PASSYNSKI 35
SOLUTIONS/VOLUMETRIC

TITLE- THE VELOCITY OF SOUND IN COLLOIDAL SOLUTIONS.
(IN GERMAN). UBER DIE
FORTPFLANZUNGSGESCHWINDIGKEIT VON
ULTRASCHALLWELLEN IN KOLLOIDLOSUNGEN.

AUTHOR- PASSYNSKI, A. [THE KARPOV INSTITUTE OF
PHYSICAL CHEMISTRY, MOSCOW (USSR). THE
LABORATORY OF COLLOID CHEMISTRY].

REFERENCE- ACTA PHYSICOCHEM. URSS, V. 3 (6), P.
779-782(1935).

DESCRIPTORS- TABLES; DENSITY; EXPERIMENTAL RESULTS;
VELOCITY OF SOUND; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; SODIUM CHLORIDES.

PASSYNSKI 38
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- COMPRESSIBILITY AND SOLVATION OF SOLUTIONS OF
ELECTROLYTES.

AUTHOR- PASSYNSKI, A. [THE KARPOV INSTITUTE OF
PHYSICAL CHEMISTRY, MOSCOW (USSR). THE
LABORATORY OF COLLOID CHEMISTRY].

REFERENCE- ACTA PHYSICOCHEM. URSS, V. 8 (4), P.
386-418(1938).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; COMPRESSIBILITY;
HYDRATION NUMBER; VELOCITY OF SOUND; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; HIGH PRESSURE; LOW TEMPERATURE;
ELECTROLYTES; BARIUM CHLORIDES; HYDROCHLORIC
ACID; LITHIUM BROMIDES; LITHIUM CHLORIDES;
MAGNESIUM CHLORIDES; MAGNESIUM SULFATES;
POTASSIUM BROMIDES; POTASSIUM CHLORIDES;
POTASSIUM FLUORIDES; POTASSIUM IODIDES; SODIUM
BROMIDES; SODIUM CHLORIDES; SODIUM FLUORIDES;
SODIUM IODIDES; WATER.

PEARCE 37
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- VAPOR PRESSURES AND PARTIAL MOLAL VOLUMES OF
AQUEOUS SOLUTIONS OF THE AL KALI SULFATES AT
25 DEGREES.

AUTHOR- PEARCE, J.N.;ECKSTROM, H.C. [IOWA UNIV.,
IOWA CITY (USA)].

REFERENCE- J. AM. CHEM. SOC., V. 59, P.
2689-2691(1937).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
APPARENT MOLAL VOLUME; PARTIAL MOLAL VOLUME;
VAPOR PRESSURE; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE; ACTIVITY
COEFFICIENT; PYCNOMETERS; ELECTROLYTES;
POTASSIUM SULFATES; SODIUM SULFATES; WATER.

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PERRON 74
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- APPARENT MOLAL VOLUMES AND HEAT CAPACITIES OF
ALKALINE EARTH CHLORIDES IN WATER AT 25 DEGREES
C.

AUTHOR- PERRON, G.;DESNOYERS, J.E. [SHERBROOKE
UNIV., QUEBEC (CANADA). DEPT. DE CHIMIE].

MILLERO, F.J. [MIAMI UNIV., FLA. (USA).
ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC
SCIENCES].

REFERENCE- CAN. J. CHEM., V. 52, P. 3738-3741(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; APPARENT MOLAL
VOLUME; DENSITY; INFINITE DILUTION; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; PARTIAL MOLAL SPECIFIC HEAT;
SPECIFIC HEAT; ELECTROLYTES; IONS; BARIUM
CHLORIDES; CALCIUM CHLORIDES; MAGNESIUM
CHLORIDES.

158

TITLE- A HIGH-PRECISION DIGITAL READOUT FLOW
DENSIMETER FOR LIQUIDS.

AUTHOR- PICKER, P.; TREMBLAY, E.; JOLICCEUR, C.
[SHERBROOKE UNIV., QUEBEC (CANADA). DEPT. DE
CHIMIE].

REFERENCE- J. SOLUTION CHEM., V. 3 (5), P.
377-384(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; APPARENT MOLAL
VOLUME; DENSITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; MEASURING INSTRUMENTS;
ELECTROLYTES; SODIUM CHLORIDES.

159

TITLE- ISOTOPE EFFECT IN TRACER DIFFUSION.
COMPARISON OF THE DIFFUSION COEFFICIENTS OF 24
 Na^+ AND 22 Na^+ IN AQUEOUS ELECTROLYTES.

AUTHOR- PIKAL, M.J. [TENNESSEE UNIV., KNOXVILLE
(USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 76 (21), P.
3038-3040(1972).

DESCRIPTORS- TABLES; DIFFUSION; EXPERIMENTAL
RESULTS; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; IONS; LITHIUM BROMIDES; SODIUM
CHLORIDES.

160

TITLE- CONCENTRATION DEPENDENCE OF ELECTROLYTE
CONDUCTANCE. PART 1.-COMPARISON OF THE
FUOSS-ONSAGER AND PITTS TREATMENTS.

AUTHOR- PITTS, E.; TABOR, B.E. [KODAK LTD., MIDDLESEX
(UK)].

DALY, J. [POLYTECHNIC OF NORTH LONDON (UK)].

REFERENCE- TRANS. FARADAY SOC., V. 65 (3), P.
849-862(1969).

DESCRIPTORS- THEORETICAL TREATMENTS; ELECTRIC
CONDUCTIVITY.

161

PITTS 70
SOLUTIONS/MISC.

TITLE- CONCENTRATION DEPENDENCE OF ELECTROLYTE
CONDUCTANCE. PART 2.-COMPARISON OF EXPERIMENTAL
DATA WITH THE FUOSS-ONSAGER AND PITTS
TREATMENTS.

AUTHOR- PITTS, E.; TABOR, B.E. [KODAK LTD., MIDDLESEX
(UK)].

DALY, J. [POLYTECHNIC OF NORTH LONDON (UK)].

REFERENCE- TRANS. FARADAY SOC., V. 66 (3), P.
693-707(1970).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; ELECTRIC CONDUCTIVITY; LOW
CONCENTRATION; MODERATE CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; CESIUM CHLORIDES; HYDROCHLORIC
ACID; LITHIUM CHLORIDES; POTASSIUM BROMIDES;
POTASSIUM CHLORIDES; POTASSIUM IODIDES; SODIUM
CHLORIDES; SODIUM HYDROXIDES.

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PITZER 73
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMICS OF ELECTROLYTES. I.
THEORETICAL BASIS AND GENERAL EQUATIONS.

AUTHOR- PITZER, K.S. [CALIFORNIA UNIV., BERKELEY
(USA). LAWRENCE BERKELEY LAB.].

REFERENCE- J. PHYS. CHEM., V. 77 (2), P.
268-277(1973).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE;
THERMODYNAMICS; ACTIVITY COEFFICIENT; OSMOTIC

COEFFICIENT; ELECTROLYTES; CALCIUM CARBONATES;
CESIUM CHLORIDES; HYDROCHLORIC ACID; LITHIUM
CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM
CHLORIDES; POTASSIUM NITRATES; SODIUM
CHLORIDES; SODIUM SULFATES.

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PITZER 73B
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- THERMODYNAMICS OF ELECTROLYTES. II ACTIVITY
AND OSMOTIC COEFFICIENTS FOR STRONG
ELECTROLYTES WITH ONE OR BOTH IONS UNIVALENT.

AUTHOR- PITZER, K.S.; MAYORGA, G. [CALIFORNIA UNIV.,
BERKELEY (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 77 (19), P.
2300-2308(1973).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
EMPIRICAL EQUATIONS; GRAPHS; THERMODYNAMICS;
ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT;
ELECTROMOTIVE FORCE; ELECTROLYTES; BARIUM
CHLORIDES; CALCIUM CHLORIDES; CESIUM CHLORIDES;
HYDROCHLORIC ACID; LITHIUM BROMIDES; LITHIUM
CHLORIDES; LITHIUM IODIDES; MAGNESIUM
CHLORIDES; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES; POTASSIUM FLUORIDES; POTASSIUM
HYDROXIDES; POTASSIUM IODIDES; POTASSIUM
NITRATES; POTASSIUM SULFATES; SODIUM BROMIDES;
SODIUM CARBONATES; SODIUM CHLORIDES; SODIUM
FLUORIDES; SODIUM HYDROXIDES; SODIUM IODIDES;
SODIUM SULFATES; TETRAMETHYLAMMONIUM CHLORIDES;
SILVER NITRATES.

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PITZER 74
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMICS OF ELECTROLYTES. III. ACTIVITY
AND OSMOTIC COEFFICIENTS FOR 2-2 ELECTROLYTES.

AUTHOR- PITZER, K.S.; MAYORGA, G. [CALIFORNIA UNIV.,
BERKELEY (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. SOLUTION CHEM., V. 3 (7), P.
539-546(1974).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; STANDARD PRESSURE; STANDARD

TEMPERATURE; THERMODYNAMICS; OSMOTIC
COEFFICIENT; ELECTROLYTES; CALCIUM SULFATES;
MAGNESIUM SULFATES; URANIUM COMPOUNDS.

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PITZER 74B
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMICS OF ELECTROLYTES. IV. ACTIVITY
AND OSMOTIC COEFFICIENTS FOR MIXED
ELECTROLYTES.

AUTHOR- PITZER, K.S.; KIM, J.J. [CALIFORNIA UNIV.,
BERKELEY (USA). LAWRENCE BERKELEY LAB.;
CALIFORNIA UNIV., BERKELEY (USA). DEPT. OF
CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 96, P.
5701-5707(1974).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; STANDARD PRESSURE; STANDARD
TEMPERATURE; THERMODYNAMICS; ACTIVITY
COEFFICIENT; OSMOTIC COEFFICIENT; ELECTROLYTES;
BARIUM CHLORIDES; CALCIUM CHLORIDES; CESIUM
CHLORIDES; HYDROCHLORIC ACID; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

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POLYAKOV 65
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- ELECTRIC RESISTIVITY AND DENSITY OF AQUEOUS
SALT SOLUTIONS UNDER HIGH PRESSURE AND
TEMPERATURE. (IN RUSSIAN).

AUTHOR- POLYAKOV, E.A.

REFERENCE- PRIKL. GEOFIZ., NO. 41, P. 163-180(1965).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
COMPRESSIBILITY; DENSITY; ELECTRIC
CONDUCTIVITY; THERMAL EXPANSIVITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW
TEMPERATURE; ELEVATED TEMPERATURE; PIEZOMETERS;
PYCNOMETERS; CALCIUM CHLORIDES; MAGNESIUM
SULFATES; POTASSIUM CHLORIDES; SODIUM
BICARBONATES; SODIUM SULFATES.

POSTNIKOV 70
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- DENSITY AND VISCOSITY OF SOME SATURATED
AQUEOUS SOLUTIONS.

AUTHOR- POSTNIKOV, V.A. [SVERDLOVSK SCIENTIFIC
RESEARCH INSTITUTE OF CHEMICAL ENGINEERING
(USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 44 (1), P.
129-130 (1970). TRANSLATED FROM ZH. FIZ. KHIM.,
V. 44 (1), P. 236-8 (1965).

DESCRIPTORS- TABLES; DENSITY; EXPERIMENTAL RESULTS;
VISCOSITY; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; MODERATE
TEMPERATURE; HYDROMETERS; ELECTROLYTES; LITHIUM
CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM
CHLORIDES; POTASSIUM IODIDES; POTASSIUM
NITRATES; SODIUM BICARBONATES; SODIUM
CARBONATES; SODIUM CHLORIDES; SODIUM
HYDROXIDES; SODIUM SULFATES.

PRANG 38
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- THE DEPENDENCE OF DENSITY AND REFRACTIVE
INDEX ON THE CONCENTRATION OF VERY DILUTE
AQUEOUS SOLUTIONS OF STRONG ELECTROLYTES. A
DIFFERENTIAL METHOD FOR THE DETERMINATION OF
SMALL DIFFERENCES IN DENSITY. (IN GERMAN).
UBER DIE KONZENTRATIONSABHANGIGKEIT VON DICHT
UND BRECHUNGSINDEX SEHR VERDUNNTER, WASSRIGER
LOSUNGEN STARKER ELEKTROLYTE. EINE DIFFERENTIAL
METHODE ZUR BESTIMMUNG KLEINER
DICHTEDIFFERENZEN.

AUTHOR- PRANG, W.

REFERENCE- ANN. PHYS., SER. 5, V. 31 (8), P.
681-713 (1938).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
DENSITY; REFRACTIVE INDEX; LOW CONCENTRATION;
MODERATE CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; DIFFERENTIAL BALANCES; MAGNESIUM
SULFATES; POTASSIUM CARBONATES; POTASSIUM
CHLORIDES; SODIUM CARBONATES; SODIUM CHLORIDES;

SODIUM SULFATES.

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POTTER 75
SOLUTIONS/VOLUMETRIC

TITLE- THE VOLUMETRIC PROPERTIES OF AQUEOUS SODIUM CHLORIDE SOLUTIONS FROM 0 TO 500 DEGREES C AT PRESSURES UP TO 2000 BARS BASED ON A REGRESSION OF THE AVAILABLE LITERATURE DATA.

AUTHOR- POTTER, R.W.; BROWN, D.L. [GEOLOGICAL SURVEY, MENLO PARK, CALIF. (USA)].

REFERENCE- THE VOLUMETRIC PROPERTIES OF AQUEOUS SODIUM CHLORIDE SOLUTIONS FROM 0 TO 500 DEGREES C AT PRESSURES UP TO 2000 BARS BASED ON A REGRESSION OF THE AVAILABLE LITERATURE DATA.

DESCRIPTORS- REVIEWS; TABLES; DENSITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; HIGH TEMPERATURE; SODIUM CHLORIDES.

170

POTTER 75B
SOLUTIONS/VOLUMETRIC

TITLE- AN ASSESSMENT OF THE STATUS OF THE AVAILABLE DATA ON THE P-V-T PROPERTIES FOR THE MAJOR COMPONENTS IN GEOTHERMAL BRINES.

AUTHOR- POTTER, R.W.

REFERENCE- PROCEEDINGS/SECOND UNITED NATIONS SYMPOSIUM ON THE DEVELOPMENT AND USE OF GEOTHERMAL RESOURCES. V. I, SEC. III.

DESCRIPTORS- REVIEWS; DENSITY; ELECTROLYTES.

171

QUIST 65

TITLE- ESTIMATION OF THE DIELECTRIC CONSTANT OF WATER TO 800 DEGREES.

AUTHOR- QUIST, A.S.; MARSHALL, W.L. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 69 (9), P.
3165-3167(1965).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; DIELECTRIC CONSTANT; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE; HIGH TEMPERATURE; WATER.

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QUIST 65B
SOLUTIONS/MISC.

TITLE- ASSIGNMENT OF LIMITING EQUIVALENT
CONDUCTANCES FOR SINGLE IONS TO 400 DEGREES.

AUTHOR- QUIST, A.S.; MARSHALL, W.L. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 69 (9), P.
2984-2987(1965).

DESCRIPTORS- REVIEWS; GRAPHS; TABLES; ELECTRIC
CONDUCTIVITY; INFINITE DILUTION; LOW
TEMPERATURE; STANDARD TEMPERATURE; ELEVATED
TEMPERATURE; ELECTROLYTES; IONS; HYDROCHLORIC
ACID; POTASSIUM CHLORIDES; POTASSIUM SULFATES;
SODIUM CHLORIDES; SODIUM HYDROXIDES; SULFURIC
ACID.

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QUIST 65C
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTRICAL CONDUCTANCES OF AQUEOUS SOLUTIONS
AT HIGH TEMPERATURE AND PRESSURE. II. THE
CONDUCTANCES AND IONIZATION CONSTANTS OF
SULFURIC ACID-WATER SOLUTIONS FROM 0 TO 800
DEGREES AND AT PRESSURES UP TO 4000 BARS.

AUTHOR- QUIST, A.S.; MARSHALL, W.L.; JOLLEY, H.R. [OAK
RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 69 (8), P.
2726-2735(1965).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DISSOCIATION CONSTANT; ELECTRIC CONDUCTIVITY;

LOW CONCENTRATION; ELEVATED PRESSURE; HIGH PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; HIGH TEMPERATURE; ENTHALPY; POTASSIUM SULFATES; SULFURIC ACID.

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QUIST 66
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTRICAL CONDUCTANCES OF AQUEOUS SOLUTIONS AT HIGH TEMPERATURES AND PRESSURES. III. THE CONDUCTANCES OF POTASSIUM BISULFATE SOLUTIONS FROM 0 TO 700 DEGREES AT PRESSURES TO 4000 BARS.

AUTHOR- QUIST, A.S.; MARSHALL, W.L. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 70 (11), P. 3714-3724 (1966).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES; DISSOCIATION CONSTANT; ELECTRIC CONDUCTIVITY; INFINITE DILUTION; LOW CONCENTRATION; ELEVATED PRESSURE; HIGH PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; ELEVATED TEMPERATURE; HIGH TEMPERATURE; ENTHALPY; SULFURIC ACID; POTASSIUM BISULFATES.

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QUIST 68
SOLUTIONS/MISC.

TITLE- ELECTRICAL CONDUCTANCES OF AQUEOUS SODIUM CHLORIDE SOLUTIONS FROM 0 TO 800 DEGREES AND AT PRESSURES TO 4000 BARS.

AUTHOR- QUIST, A.S.; MARSHALL, W.L. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 72 (2), P. 684-703 (1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; EXPERIMENTAL RESULTS; TABLES; DISSOCIATION CONSTANT; ELECTRIC CONDUCTIVITY; EQUILIBRIUM CONSTANT; HYDRATION NUMBER; INFINITE DILUTION; LOW CONCENTRATION; MODERATE CONCENTRATION; ELEVATED PRESSURE; HIGH PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; ELEVATED

TEMPERATURE; HIGH TEMPERATURE; MEASURING
INSTRUMENTS; SODIUM CHLORIDES.

176

QUIST 68B
SOLUTIONS/MISC.

TITLE- ELECTRICAL CONDUCTANCES OF AQUEOUS SODIUM
BROMIDE SOLUTIONS FROM 0 TO 800 DEGEES AND AT
PRESSURES TO 4000 BARS.

AUTHOR- QUIST, A.S.; MARSHALL, W.L. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 72 (6), P.
2100-2105(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DISSOCIATION CONSTANT; ELECTRIC CONDUCTIVITY;
INFINITE DILUTION; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED PRESSURE; HIGH
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; ELEVATED TEMPERATURE; HIGH
TEMPERATURE; SODIUM BROMIDES.

177

QUIST 68C
SOLUTIONS/MISC.

TITLE- IONIZATION EQUILIBRIA IN AMMONIA-WATER
SOLUTIONS TO 700 DEGREES AND TO 4000 BARS OF
PRESSURE.

AUTHOR- QUIST, A.S.; MARSHALL, W.L. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 72 (9), P.
3122-3128(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ELECTRIC CONDUCTIVITY; EQUILIBRIUM CONSTANT;
INFINITE DILUTION; HYDROLYSIS; LOW
CONCENTRATION; MODERATE CONCENTRATION; MODERATE
PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; ELEVATED
TEMPERATURE; HIGH TEMPERATURE; SODIUM
HYDROXIDES; AMMONIA.

178

QUIST 68D
SOLUTIONS/MISC.

TITLE- ELECTRICAL CONDUCTANCES OF AQUEOUS HYDROGEN
BROMIDE SOLUTIONS FROM 0 TO 800 DEGREES AND AT
PRESSURES TO 4000 BARS.

AUTHOR- QUIST, A.S.; MARSHALL, W.L. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 72 (5), P.
1545-1552(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DISSOCIATION CONSTANT; ELECTRIC CONDUCTIVITY;
EQUILIBRIUM CONSTANT; INFINITE DILUTION; LOW
CONCENTRATION; MODERATE CONCENTRATION; MODERATE
PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; ELEVATED
TEMPERATURE; HIGH TEMPERATURE; ELECTROLYTES.

179

QUIST 68E
SOLUTIONS/MISC.

TITLE- THE INDEPENDENCE OF ISOTHERMAL EQUILIBRIA IN
ELECTROLYTE SOLUTIONS ON CHANGES IN DIELECTRIC
CONSTANT.

AUTHOR- QUIST, A.S.; MARSHALL, W.L. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 72 (5), P.
1536-1544(1968).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; DISSOCIATION CONSTANT; EQUILIBRIUM
CONSTANT; HYDRATION NUMBER; DISSOCIATION
CONSTANT; SOLUBILITY; ELEVATED PRESSURE; HIGH
PRESSURE; ELEVATED TEMPERATURE; HIGH
TEMPERATURE; ELECTROLYTES; HYDROCHLORIC ACID;
POTASSIUM CHLORIDES; POTASSIUM HYDROXIDES;
SODIUM CHLORIDES; SULFURIC ACID; POTASSIUM
BISULFATES.

180

QUIST 69
SOLUTIONS/MISC.

TITLE- THE ELECTRICAL CONDUCTANCES OF SOME ALKALI

METAL HALIDES IN AQUEOUS SOLUTIONS FROM 0 TO 800 DEGREES AND AT PRESSURES TO 4000 BARS.

AUTHOR- QUIST, A.S.; MARSHALL, W.L. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 73 (4), P. 978-985(1969).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS; ELECTRIC CONDUCTIVITY; MODERATE CONCENTRATION; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; ELEVATED TEMPERATURE; HIGH TEMPERATURE; ELECTROLYTES; CESIUM CHLORIDES; LITHIUM CHLORIDES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; POTASSIUM IODIDES; SODIUM BROMIDES; SODIUM CHLORIDES; SODIUM IODIDES.

181

QUIST 70
SOLUTIONS/MISC.

TITLE- A REFERENCE SOLUTION FOR ELECTRICAL CONDUCTANCE MEASUREMENTS TO 800 DEGREES AND 12,000 BARS. AQUEOUS 0.01 MOLAL POTASSIUM CHLORIDE.

AUTHOR- QUIST, A.S.; MARSHALL, W.L.

FRANCK, E.U.; VON OSTEN, W. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 74 (10), P. 2241-2243(1970).

DESCRIPTORS- REVIEWS; GRAPHS; EXPERIMENTAL RESULTS; TABLES; ELECTRIC CONDUCTIVITY; MODERATE CONCENTRATION; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; HIGH TEMPERATURE; POTASSIUM CHLORIDES.

182

QUIST 70B
SOLUTIONS/MISC.

TITLE- ELECTRICAL CONDUCTANCES OF AQUEOUS POTASSIUM NITRATE AND TETRAMETHYLAMMONIUM BROMIDE SOLUTIONS TO 800 DEGREES C AND 4000 BARS.

AUTHOR- QUIST, A.S.; MARSHALL, W.L. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 15 (3), P. 375-376(1970).

DESCRIPTORS- GRAPHS; ELECTRIC CONDUCTIVITY; MODERATE CONCENTRATION; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; ELEVATED TEMPERATURE; HIGH TEMPERATURE; ELECTROLYTES; POTASSIUM NITRATES.

183

QUIST 70C

TITLE- THE IONIZATION CONSTANT OF WATER TO 800 DEGREES AND 4000 BARS.

AUTHOR- QUIST, A.S. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 74 (18), P. 3396-3402(1970).

DESCRIPTORS- GRAPHS; TABLES; ELECTRIC CONDUCTIVITY; EQUILIBRIUM CONSTANT; DISSOCIATION CONSTANT; LOW CONCENTRATION; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; ELEVATED TEMPERATURE; HIGH TEMPERATURE; ELECTROLYTES; POTASSIUM BROMIDES; SODIUM BROMIDES; WATER.

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RAQIB 70
SOLUTIONS/VOLUMETRIC

TITLE- THE APPARENT MOLAR VOLUMES OF ELECTROLYTES IN AQUEOUS SOLUTION IN VERY LOW CONCENTRATION RANGE.

AUTHOR- RAQIB, M.A. [RAJSHAHI UNIV. (BANGLADESH)].

REFERENCE- SCI. IND. (KARACHI), V. 7 (1-2), P. 41-44(1970).

DESCRIPTORS- DENSITY; GRAPHS; TABLES; EXPERIMENTAL RESULTS; APPARENT MOLAL VOLUME; LOW CONCENTRATION; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD PRESSURE; MODERATE TEMPERATURE; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

RAU 72
SOLUTIONS/VOLUMETRIC

TITLE- PVT-MEASUREMENTS OF CONCENTRATED HYDROCHLORIC ACID SOLUTIONS TO 500 DEGREES C AND 1500 BAR. (IN GERMAN). PVT-MESSUNGEN AN KONZENTRIERTER SALZSAURE BIS 500 C UND 1500 BAR.

AUTHOR- RAU, H.; KUTTY, T.R.N. [PHILIPS FORSCHUNGS LABORATORIUM G.M.B.H., AACHEN (F.R. GERMANY)].

REFERENCE- PVT-MESSUNGEN AN KONZENTRIERTER SALZSAURE BIS 500 C UND 1500 BAR, .

DESCRIPTORS- GRAPHS; TABLES; DENSITY; HIGH CONCENTRATION; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; HIGH TEMPERATURE; HYDROCHLORIC ACID.

RAVICH 71
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- DENSITY OF AQUEOUS SOLUTIONS OF POTASSIUM SULPHATE AT 397 DEGREES C AND PRESSURES BETWEEN 600 AND 1500 KG/CM².

AUTHOR- RAVICH, M.I.; BOROVAYA, F.E. [ACADEMY OF SCIENCES (USSR). KURNAKOV INST. OF GENERAL AND INORGANIC CHEMISTRY].

REFERENCE- RUSS. J. INORG. CHEM., V. 16 (7), P. 942-945 (1971). TRANSLATED FROM ZH. NEORG. KHIM., V. 16 (7), P. 1776-1781 (1971).

DESCRIPTORS- GRAPHS; TABLES; COMPRESSIBILITY; DENSITY; PARTIAL MOLAL VOLUME; SOLUBILITY; LOW CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; HIGH PRESSURE; ELEVATED TEMPERATURE; POTASSIUM SULFATES; SODIUM SULFATES; WATER; MERCURY.

TITLE- VOLUME PROPERTIES OF AQUEOUS SOLUTIONS OF
POTASSIUM SULPHATE AT ELEVATED PRESSURES IN THE
TEMPERATURE RANGE 300-500 DEGREES C.

AUTHOR- RAVICH, M.I.;BOROVAYA, F.E. [ACADEMY OF
SCIENCES (USSR). KURNAKOV INST. OF GENERAL AND
INORGANIC CHEMISTRY].

REFERENCE- RUSS. J. INORG. CHEM., V. 16 (11), P.
1662-1666(1971). TRANSLATED FROM ZH. NEORG.
KHIM., V. 16 (11), P. 3135-3141 (1971).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
COMPRESSIBILITY; DENSITY; PARTIAL MOLAL VOLUME;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
ELEVATED PRESSURE; HIGH PRESSURE; ELEVATED
TEMPERATURE; HIGH TEMPERATURE; POTASSIUM
SULFATES; SODIUM SULFATES; WATER.

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TITLE- ON THE THEORY OF MOLAL VOLUMES OF AQUEOUS
ELECTROLYTES II.. (IN GERMAN). ZUR THEORIE
DES MOLVOLUMENS GELOSTER ELEKTROLYTE II..

AUTHOR- REDLICH, H.O.;ROSENFELD, P.

REFERENCE- Z. ELEKTROCHEM., V. 37 (8-9), P.
705-711(1931).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
APPARENT MOLAL VOLUME; INFINITE DILUTION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; CESIUM CHLORIDES; LITHIUM
BROMIDES; LITHIUM CHLORIDES; LITHIUM IODIDES;
POTASSIUM BROMIDES; POTASSIUM CHLORIDES;
POTASSIUM IODIDES; SODIUM BROMIDES; SODIUM
CHLORIDES; SODIUM IODIDES.

189

TITLE- MOLAL VOLUMES OF SOLUTES. IV..

AUTHOR- REDLICH, O. [WASHINGTON STATE UNIV., PULLMAN
(USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 44, P. 619-629(1940).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; APPARENT MOLAL VOLUME; INFINITE
DILUTION; STANDARD PRESSURE; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES; POTASSIUM SULFATES; SODIUM BROMIDES;
SODIUM CHLORIDES; SODIUM SULFATES.

190

REDLICH 42
SOLUTIONS/VOLUMETRIC

TITLE- MOLAL VOLUMES OF SOLUTES. VI. POTASSIUM
CHLORATE AND HYDROCHLORIC ACID.

AUTHOR- REDLICH, O.;BIGELEISEN, J.

REFERENCE- J. AM. CHEM. SOC., V. 64, P.
758-760(1942).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; APPARENT
MOLAL VOLUME; DENSITY; LOW CONCENTRATION;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
STANDARD PRESSURE; STANDARD TEMPERATURE;
DIFFERENTIAL BALANCES; HYDROCHLORIC ACID;
POTASSIUM CHLORATES.

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REDLICH 42B
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/VOLUMETRIC

TITLE- MOLAL VOLUMES. V. THERMODYNAMIC PROPERTIES OF
ELECTROLYTES AT INFINITE DILUTION.

AUTHOR- REDLICH, O.;BIGELEISEN, J. [WASHINGTON STATE
UNIV., PULLMAN (USA). DEPT. OF CHEMISTRY].

REFERENCE- CHEM. REV., V. 30, P. 171-179(1942).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
PARTIAL MOLAL VOLUME; INFINITE DILUTION;
STANDARD PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; APPARENT MOLAL SPECIFIC HEAT;
ELECTROLYTES; HYDROCHLORIC ACID; SODIUM
CHLORIDES.

REDLICH 64
SOLUTIONS/VOLUMETRIC

TITLE- THE MOLAL VOLUMES OF ELECTROLYTES.

AUTHOR- REDLICH, D.; MEYER, D.M. [CALIFORNIA UNIV.,
BERKELEY (USA). LAWRENCE BERKELEY LAB.].

REFERENCE- CHEM. REV., V. 64 (3), P. 221-227(1964).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; APPARENT MOLAL VOLUME; DIELECTRIC
CONSTANT; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; ELECTROLYTES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

RICHARDSON 66
SOLUTIONS/MISC.

TITLE- INVESTIGATION OF THE MASS TRANSFER PROPERTIES
OF SALINE WATER SYSTEMS.

AUTHOR- RICHARDSON, J.L.; GETZ, R.J.; SEGOVIA, G.

REFERENCE- INVESTIGATION OF THE MASS TRANSFER
PROPERTIES OF SALINE WATER SYSTEMS. NO. 211,
U.S. OFF. SALINE WATER, RES. DEV. PROG. REP.,
1966, 163 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; DIFFUSION;
THERMAL CONDUCTIVITY; VISCOSITY; THERMAL
DIFFUSION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MEASURING INSTRUMENTS; SEA WATER;
CALCIUM SULFATES; MAGNESIUM CHLORIDES; SODIUM
CHLORIDES.

ROBIE 68

TITLE- THERMODYNAMIC PROPERTIES OF MINERALS AND
RELATED SUBSTANCES AT 298.15 DEGREES K (25.0

DEGREES C) AND ONE ATMOSPHERE (1.013 BARS)
PRESSURE AND AT HIGHER TEMPERATURES.

AUTHOR- ROBIE, R.A.; WALDBAUM, D.R. [GEOLOGICAL
SURVEY, WASHINGTON, D.C. (USA)].

REFERENCE- THERMODYNAMIC PROPERTIES OF MINERALS AND
RELATED SUBSTANCES AT 298.15 DEGREES K (25.0
DEGREES C) AND ONE ATMOSPHERE (1.013 BARS)
PRESSURE AND AT HIGHER TEMPERATURES. GEOL.
SURV. BULL. 1259, 249 P..

DESCRIPTORS- REVIEWS; TABLES; MOLAL VOLUME; STANDARD
PRESSURE; STANDARD TEMPERATURE; THERMODYNAMICS;
ENTHALPY; ENTROPY; FREE ENERGY; MINERALS.

195

ROSEN 59
SOLUTIONS/VOLUMETRIC

TITLE- SOLUTIONS UNDER PRESSURE.

AUTHOR- ROSEN, J.S. [LOCKHEED-GEORGIA CO., MARIETTA
(USA)].

REFERENCE- J. CHEM. PHYS., V. 30 (2), P.
547-555(1959).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; DENSITY;
MOLAL VOLUME; HIGH PRESSURE; STANDARD
TEMPERATURE; ELECTROLYTES; POTASSIUM SULFATES;
SODIUM CHLORIDES; WATER.

196

REIKHARDT 70
SOLUTIONS/VOLUMETRIC

TITLE- RELATION BETWEEN THE DENSITIES OF ELECTROLYTE
SOLUTIONS AND THEIR MOLAR CONCENTRATIONS.

AUTHOR- REIKHARDT, A.A. [STATE INSTITUTE OF APPLIED
CHEMISTRY, LENINGRAD (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 44 (2), P.
242-243(1970). TRANSLATED FROM ZH. FIZ. KHIM.,
V. 44 (2), P. 437-439 (1970).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; DENSITY;
ELECTROLYTES; CALCIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; POTASSIUM
IODIDES.

ROBINSON 72
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMICS OF AQUEOUS MIXTURES OF SODIUM CHLORIDE, POTASSIUM CHLORIDE, SODIUM SULFATE, AND POTASSIUM SULFATE AT 25 DEGREES C.

AUTHOR- ROBINSON, R.A. [FLORIDA UNIV., GAINESVILLE (USA). DEPT. OF CHEMISTRY].

PLATFORD, R.F.; CHILDS, C.W. [CENTRE FOR INLAND WATERS, BURLINGTON, ONTARIO (CANADA); DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, LOWER HUTT (NEW ZEALAND)].

REFERENCE- J. SOLUTION CHEM., V. 1 (2), P. 167-172(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; MIXING FREE ENERGY; OSMOTIC COEFFICIENT; ISOPIESTIC MEASUREMENT; POTASSIUM CHLORIDES; POTASSIUM SULFATES; SODIUM CHLORIDES; SODIUM SULFATES.

ROWE 70
SOLUTIONS/VOLUMETRIC

TITLE- PRESSURE-VOLUME-TEMPERATURE-CONCENTRATION RELATION OF AQUEOUS NA₂CO₃ SOLUTIONS.

AUTHOR- ROWE, A.M.; CHOU, J.C.S. [OKLAHOMA STATE UNIV., STILLWATER (USA). SCHOOL OF MECHANICAL ENGINEERING].

REFERENCE- J. CHEM. ENG. DATA, V. 15 (1), P. 61-66(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; EXPERIMENTAL RESULTS; TABLES; COMPRESSIBILITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; MODERATE PRESSURE; ELEVATED PRESSURE; LOW TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; PISTON-DISPLACEMENT METHOD; SODIUM CHLORIDES; WATER.

TITLE- APPARENT MOLAL HEAT CAPACITIES OF AQUEOUS
SOLUTIONS OF ALKALI HALIDES AND ALKYLAMMONIUM
SALTS.

AUTHOR- RUTERJANS, H.; SCHREINER, F.; SAGE,
U.; ACKERMANN, T. [MUENSTER UNIV. (F.R. GERMANY)
PHYSIKALISCHES INST.].

REFERENCE- J. PHYS. CHEM., V. 73 (4), P.
986-994 (1969).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
INFINITE DILUTION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; APPARENT
MOLAL SPECIFIC HEAT; PARTIAL MOLAL SPECIFIC
HEAT; CALORIMETERS; ELECTROLYTES; CESIUM
CHLORIDES; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; POTASSIUM FLUORIDES;
TETRAMETHYLAMMONIUM CHLORIDES.

200

TITLE- STRUCTURE OF AQUEOUS ELECTROLYTE SOLUTIONS
AND THE HYDRATION OF IONS.

AUTHOR- SAMOILOV, O.YA.

REFERENCE- STRUCTURE OF AQUEOUS ELECTROLYTE
SOLUTIONS AND THE HYDRATION OF IONS.
CONSULTANTS BUREAU, NEW YORK, NEW YORK, 1965,
TRANSLATED FROM RUSSIAN.

DESCRIPTORS- REVIEWS; GRAPHS; TABLES; DIFFUSION;
HYDRATION NUMBER; SOLUBILITY; HYDRATION; ION
MOBILITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; ACTIVITY COEFFICIENT; SOLUTION
HEAT; ELECTROLYTES; IONS; BARIUM CHLORIDES;
CALCIUM CHLORIDES; CESIUM CHLORIDES; LITHIUM
CHLORIDES; MAGNESIUM CHLORIDES; MAGNESIUM
SULFATES; POTASSIUM CHLORIDES; POTASSIUM
SULFATES; SODIUM BROMIDES; SODIUM CHLORIDES;
SODIUM IODIDES; URANIUM COMPOUNDS; WATER.

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SAMOILOVICH 68
SOLUTIONS/VOLUMETRIC

TITLE- RELATIONS BETWEEN PRESSURE, TEMPERATURE, AND DENSITY IN AQUEOUS SOLUTIONS OF SODIUM CHLORIDES AND POTASSIUM CHLORIDES. (IN RUSSIAN).

AUTHOR- SAMOILOVICH, L.A.;KHETCHIKOV, L.N.

REFERENCE- DOKL. AKAD. NAUK SSSR, V. 180 (6), P. 1450-1452(1968).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS; DENSITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; ELEVATED TEMPERATURE; HIGH TEMPERATURE; AUTOCLAVES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

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SANGSTER 75
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMICS OF MIXED ELECTROLYTE SOLUTIONS.

AUTHOR- SANGSTER, J.;LENZI, F. [MONTREAL UNIV., QUEBEC (CANADA)].

REFERENCE- CAN. J. CHEM., V. 53, P. 1410-1413(1975).

DESCRIPTORS- THEORETICAL TREATMENTS; TABLES; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; THERMODYNAMICS; ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT; ISOPIESTIC MEASUREMENT; BARIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

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SATYAVATI 62
SOLUTIONS/VOLUMETRIC

TITLE- ULTRASONIC STUDIES IN ELECTROLYTE MIXTURES-COMPLEX ION FORMATION.

AUTHOR- SATYAVATI, T.;REDDY, P.J.;SUBRAHMANYAM, S.V. [SRI VENKATESWARA UNIV., TIRUPATI (INDIA)].

REFERENCE- J. PHYS. SOC. JPN., V. 17 (6), P.

1061-1064(1962).

DESCRIPTORS- GRAPHS; COMPRESSIBILITY; VELOCITY OF SOUND; ELEVATED CONCENTRATION; HIGH CONCENTRATION; ELECTROLYTES; CADMIUM IODIDES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; POTASSIUM IODIDES; POTASSIUM NITRATES; SODIUM CHLORIDES.

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SATYAVATI 68
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- ULTRASONIC BEHAVIOR IN SIMPLE AND COMPLEX TERNARY SYSTEMS OF ELECTROLYTES.

AUTHOR- SATYAVATI, A.V. [SHIVAJI UNIV., KOLHAPUR (INDIA). DEPT OF PHYSICS].

REFERENCE- ACUSTICA, V. 19, P. 350-354(1968).

DESCRIPTORS- GRAPHS; TABLES; COMPRESSIBILITY; HYDRATION NUMBER; VELOCITY OF SOUND; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; MODERATE TEMPERATURE; ELECTROLYTES; BARIUM CHLORIDES; CADMIUM IODIDES; LITHIUM BROMIDES; LITHIUM CHLORIDES; MAGNESIUM SULFATES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; POTASSIUM IODIDES; POTASSIUM NITRATES; POTASSIUM SULFATES; SODIUM IODIDES; SODIUM SULFATES.

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SCOTT 31
SOLUTIONS/VOLUMETRIC

TITLE- THE APPARENT VOLUMES OF SALTS IN SOLUTION. I. A TEST OF THE EMPIRICAL RULE OF MASSON.

AUTHOR- SCOTT, A.F. [RICE UNIV., HOUSTON, TEX.

REFERENCE- J. PHYS. CHEM., V. 35, P. 2315-2329(1931).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; APPARENT MOLAL VOLUME; STANDARD PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES; CESIUM CHLORIDES; LITHIUM CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM

SCOTT 34
SOLUTIONS/VOLUMETRIC

TITLE- THE COMPRESSIBILITY COEFFICIENTS OF SOLUTIONS
OF EIGHT ALKALI HALIDES.

AUTHOR- SCOTT, A.F.; OBENHAUS, V.M.; WILSON, R.W.
[RICE UNIV., HOUSTON, TEX. (USA). DEPT. OF
CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 38, P. 931-940(1934).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
COMPRESSIBILITY; DENSITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; ELEVATED PRESSURE; MODERATE
TEMPERATURE; PIEZOMETERS; PYCNOMETERS; LITHIUM
BROMIDES; LITHIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
IODIDES; SODIUM BISULFIDES; SODIUM CHLORIDES;
SODIUM IODIDES.

SCOTT 348
SOLUTIONS/VOLUMETRIC

TITLE- THE APPARENT VOLUMES OF SALTS IN SOLUTION AND
THEIR COMPRESSIBILITIES.

AUTHOR- SCOTT, A.F.; WILSON, R.W. [RICE UNIV.,
HOUSTON, TEX. (USA)].

REFERENCE- J. PHYS. CHEM., V. 38, P. 951-977(1934).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
APPARENT MOLAL VOLUME; COMPRESSIBILITY;
INFINITE DILUTION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; ELEVATED
PRESSURE; HIGH PRESSURE; MODERATE TEMPERATURE;
LITHIUM BROMIDES; LITHIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
IODIDES; SODIUM CHLORIDES; SODIUM BROMIDES;
SODIUM IODIDES.

TITLE- DETERMINATION OF THE VISCOSITY AND THE
DENSITY OF CAUSTIC AQUEOUS SOLUTIONS. (IN
RUSSIAN).

AUTHOR- SEVTSOV, A.I.

REFERENCE- ZH. PRIKL. KHIM., V. 10, P.
1500-1503(1937).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; VISCOSITY; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; SILICATES; SODIUM CARBONATES;
SODIUM CHLORIDES; SODIUM HYDROXIDES; SODIUM
SULFATES; MIXTURES.

209

TITLE- THE DENSITY AND VISCOSITY OF CONCENTRATED
SOLUTIONS OF CERTAIN SALTS IN THE 20-80 DEGREES
C TEMPERATURE RANGE. (IN RUSSIAN).

AUTHOR- SHILOVSKAYA, M.E.; LENKOVA, V.I.

REFERENCE- TEPLOENERGETIKA, V. 21 (1), P.
93-94(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; DENSITY;
VISCOSITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; MODERATE TEMPERATURE; PYCNOMETERS;
SODIUM BICARBONATES; SODIUM CARBONATES; SODIUM
SULFATES.

210

TITLE- THE INFLUENCE OF PRESSURE ON SOLUBILITY.

AUTHOR- SILL, H.F.

REFERENCE- J. AM. CHEM. SOC., V. 38, P.
2632-2643(1916).

DESCRIPTORS- TABLES; SOLUBILITY; EXPERIMENTAL RESULTS; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; MEASURING INSTRUMENTS; ELECTROLYTES; SODIUM CHLORIDES.

211

SILVESTER 76
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMIC PROPERTIES OF VAPOR-SATURATED
NACL (AQ) SOLUTIONS FROM 0-300 DEGREES C.

AUTHOR- SILVESTER, L.F.;PITZER, K.S.

REFERENCE- THERMODYNAMIC PROPERTIES OF
VAPOR-SATURATED NACL (AQ) SOLUTIONS FROM 0-300
DEGREES C. LAWRENCE BERKELEY LABORATORY,
BERKELEY, CA, 1975,

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; INFINITE
DILUTION; SATURATED VAPOR; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; THERMODYNAMICS; ACTIVITY
COEFFICIENT; APPARENT MOLAL SPECIFIC HEAT;
ENTHALPY; ENTROPY; FREE ENERGY; OSMOTIC
COEFFICIENT; PARTIAL MOLAL SPECIFIC HEAT;
SOLUTION HEAT; SPECIFIC HEAT; SODIUM CHLORIDES.

212

SPEDDING 66
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT MOLAL VOLUMES OF SOME AQUEOUS RARE
EARTH CHLORIDE AND NITRATE SOLUTIONS AT 25
DEGREES.

AUTHOR- SPEDDING, F.H.;PIKAL, M.J.;AYERS, B.O. [IOWA
STATE UNIV. OF SCIENCE AND TECHNOLOGY, AMES
(USA); AMES LAB., IOWA (USA)].

REFERENCE- J. PHYS. CHEM., V. 70 (8), P.
2440-2449(1966).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; APPARENT MOLAL
VOLUME; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE; MAGNETIC
FLOAT METHOD; ELECTROLYTES; IONS; POTASSIUM

CHLORIDES.

213

SOURIRAJAN 62
SOLUTIONS/MISC.

TITLE- THE SYSTEM H₂O-NACL AT ELEVATED TEMPERATURES
AND PRESSURES.

AUTHOR- SOURIRAJAN, S.;KENNEDY, G.C. [CALIFORNIA
UNIV., LOS ANGELES (USA). INST. OF GEOPHYSICS
AND PLANETARY PHYSICS].

REFERENCE- AM. J. SCI., V. 260, P. 115-141(1962).

DESCRIPTORS- GRAPHS; SOLUBILITY; EXPERIMENTAL
RESULTS; VAPOR PRESSURE; PHASE DIAGRAMS;
CRITICAL POINT; HIGH CONCENTRATION; MODERATE
PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE;
ELEVATED TEMPERATURE; HIGH TEMPERATURE; SODIUM
CHLORIDES.

214

STAKHANOVA 63
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/VOLUMETRIC

TITLE- VOLUME AND HEAT CAPACITY CHANGES IN AQUEOUS
SALT SOLUTIONS. I. THE SYSTEMS CSCL-LICL-H₂O
AND CSCL-NACL-H₂O.

AUTHOR- STAKHANOVA, M.S.;VASILEV, V.A. [MENDELEEV
MOSCOW INSTITUTE OF CHEMICAL TECHNOLOGY (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 37 (7), P.
839-843(1963). TRANSLATED FROM ZH. FIZ. KHIM.,
V. 37 (7), (1963).

DESCRIPTORS- GRAPHS; TABLES; APPARENT MOLAL VOLUME;
DENSITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; APPARENT MOLAL SPECIFIC HEAT;
SPECIFIC HEAT; CESIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

215

STAPLES 75

SOLUTIONS/THERMODYNAMICS

TITLE- THE ACTIVITY AND OSMOTIC COEFFICIENTS OF
AQUEOUS CALCIUM CHLORIDE AT 298.15 DEGREES K.

AUTHOR- STAPLES, B.R.;NUTTALL, R.L. [NATIONAL BUREAU
OF STANDARDS, WASHINGTON, D.C. (USA)].

REFERENCE- THE ACTIVITY AND OSMOTIC COEFFICIENTS OF
AQUEOUS CALCIUM CHLORIDE AT 298.15 DEGREES K.

DESCRIPTORS- REVIEWS; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; THERMODYNAMICS; ACTIVITY
COEFFICIENT; FREE ENERGY; OSMOTIC COEFFICIENT;
CALCIUM CHLORIDES.

216

STOUGHTON 60
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- THE SOLUBILITY OF SILVER SULFATE IN
ELECTROLYTE SOLUTIONS. PART 6. HEATS AND
ENTROPIES OF SOLUTION VS. TEMPERATURE. SPECIES
PRESENT IN HNO₃ AND H₂SO₄ MEDIA.

AUTHOR- STOUGHTON, R.W.;LIETZKE, M.H. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 64, P. 133-136(1960).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
SOLUBILITY; ELEVATED CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; ACTIVITY COEFFICIENT; ENTROPY;
SOLUTION HEAT; NITRIC ACID; SULFURIC ACID;
SILVER SULFATES.

217

STOUGHTON 64
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- CALCULATION OF VAPOR PRESSURE OF SEA WATER
CONCENTRATES FROM ACTIVITY COEFFICIENT
PARAMETERS OF SODIUM CHLORIDE SOLUTIONS.

AUTHOR- STOUGHTON, R.W.;LIETZKE, M.H.;WHITE, R.J.
[OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. TENN. ACAD. SCI., V. 39 (4), P.
109-112(1964).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; VAPOR
PRESSURE; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; ACTIVITY COEFFICIENT; OSMOTIC
COEFFICIENT; SEA WATER; SODIUM CHLORIDES.

218

STOUGHTON 65
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- CALCULATION OF SOME THERMODYNAMIC PROPERTIES
OF SEA SALT SOLUTIONS AT ELEVATED TEMPERATURES
FROM DATA ON NACL SOLUTIONS.

AUTHOR- STOUGHTON, R.W.; LIETZKE, M.H. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 10 (3), P.
254-260(1965).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
BOILING POINT; SOLUBILITY; VAPOR PRESSURE;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE; FREE ENERGY; OSMOTIC
COEFFICIENT; SEA WATER; CALCIUM SULFATES;
SODIUM CHLORIDES.

219

STOUGHTON 67
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMIC PROPERTIES OF SEA SALT
SOLUTIONS.

AUTHOR- STOUGHTON, R.W.; LIETZKE, M.H. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 12 (1), P.
101-104(1967).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; BOILING POINT; VAPOR PRESSURE; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; FREE ENERGY; OSMOTIC COEFFICIENT;

SODIUM CHLORIDES.

220

SWEETON 70
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THE SOLUBILITY OF MAGNETITE AND HYDROLYSIS OF FERROUS ION IN AQUEOUS SOLUTIONS AT ELEVATED TEMPERATURES.

AUTHOR- SWEETON, F.H.; BAES, C.F. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. CHEM. THERMODYN., V. 2, P. 479-500(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES; EQUILIBRIUM CONSTANT; SOLUBILITY; HYDROLYSIS; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; ENTHALPY; ENTROPY; FREE ENERGY; MEASURING INSTRUMENTS; HYDROCHLORIC ACID; POTASSIUM HYDROXIDES.

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SWEETON 73
SOLUTIONS/MISC.

TITLE- A HIGH-TEMPERATURE FLOWING EMF CELL.

AUTHOR- SWEETON, F.H.; MESMER, R.E.; BAES, C.F. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. E, V. 6, P. 165-168(1973).

DESCRIPTORS- LOW CONCENTRATION; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; LOW TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; MEASURING INSTRUMENTS; ELECTROMOTIVE FORCE; HYDROCHLORIC ACID; POTASSIUM CHLORIDES.

222

SWEETON 74

TITLE- ACIDITY MEASUREMENTS AT ELEVATED TEMPERATURES. VII. DISSOCIATION OF WATER.

AUTHOR- SWEETON, F.H.; MESMER, R.E.; BAES, C.F. [OAK
RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. SOLUTION CHEM., V. 3 (3), P.
191-214(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DISSOCIATION CONSTANT; EQUILIBRIUM CONSTANT;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; LOW TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ENTHALPY;
ENTROPY; FREE ENERGY; SPECIFIC HEAT;
ELECTROMOTIVE FORCE; HYDROCHLORIC ACID;
POTASSIUM CHLORIDES; POTASSIUM HYDROXIDES;

223

TAMAS 63
SOLUTIONS/VOLUMETRIC

TITLE- DENSITY OF AQUEOUS SOLUTIONS OF SOME STRONG
ELECTROLYTES. (IN HUNGARIAN). NEHANY EROS
ELEKTROLIT VIZES OLDATAINAK SURUSEGE.

AUTHOR- TAMAS, J. [ECTVOS LORAND TUDOMANYEGYETEM,
BUDAPEST (HUNGARY). FIZIKAI KEMIAI ES
RADIOLOGIAI TANSZEK].

REFERENCE- MAG. KEM. FOLY., V. 69, P. 497-499(1963).
HUNGARIAN VERSION OF TAMAS 64.

DESCRIPTORS- TABLES; DENSITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; PYCNOMETERS;
ELECTROLYTES; POTASSIUM FLUORIDES; POTASSIUM
HYDROXIDES; SODIUM HYDROXIDES.

224

TAMAS 64
SOLUTIONS/VOLUMETRIC

TITLE- DENSITY OF SOME AQUEOUS ELECTROLYTE
SOLUTIONS.

AUTHOR- TAMAS, J. [ECTVOS LORAND TUDOMANYEGYETEM,
BUDAPEST (HUNGARY). FIZIKAI KEMIAI ES
RADIOLOGIAI TANSZEK].

REFERENCE- ACTA CHIM. ACAD. SCI. HUNG., V. 40, P.
117-123(1964). ENGLISH VERSION OF TAMAS 63.

DESCRIPTORS- GRAPHS; TABLES; DENSITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; PYCNOMETERS;
ELECTROLYTES; POTASSIUM FLUORIDES; POTASSIUM
HYDROXIDES; SODIUM HYDROXIDES.

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TASKOPRULU 56
SOLUTIONS/VOLUMETRIC

TITLE- VOLUMES AND COMPRESSIBILITIES OF MIXTURES OF
MONOVALENT ELECTROLYTIC SOLUTIONS.

AUTHOR- TASKOPRULU, N.S. [ISTANBUL UNIV. (TURKEY)].

REFERENCE- INSTANBUL UNIV. FEN FAK. MECM. SERI C, V.
21, P. 118-125(1956).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
APPARENT MOLAL VOLUME; COMPRESSIBILITY;
DENSITY; HIGH CONCENTRATION; STANDARD PRESSURE;
MODERATE TEMPERATURE; PYCNOMETERS; HYDROCHLORIC
ACID; SODIUM CHLORIDES; SODIUM HYDROXIDES.

226

THAM 67
SOLUTIONS/VOLUMETRIC

TITLE- DENSITIES OF POTASSIUM HYDROXIDE SOLUTIONS.

AUTHOR- THAM, M.K.; GUBBINS, K.E.; WALKER, R.D.
[FLORIDA UNIV., GAINESVILLE (USA)].

REFERENCE- J. CHEM. ENG. DATA., V. 12 (4), P.
525-526(1967).

DESCRIPTORS- TABLES; DENSITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; MODERATE
TEMPERATURE; POTASSIUM HYDROXIDES.

227

THOMAS 73
SOLUTIONS/MISC.

TITLE- TRACER DIFFUSION COEFFICIENTS IN AQUEOUS
SOLUTIONS. I. THE METHOD. SODIUM IN SODIUM

CHLORIDE.

AUTHOR- THOMAS, H.C.; KU, J.C. [NORTH CAROLINA UNIV.,
CHAPEL HILL (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 77, P.
2233-2235(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; DIFFUSION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; SODIUM

228

THOMPSON 67
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMIC PROPERTIES OF SIMPLE SOLUTIONS.

AUTHOR- THOMPSON, J.B. [HARVARD UNIV., CAMBRIDGE,
MASS. (USA). DEPT. OF GEOLOGICAL SCIENCES].

ABELSON, P.H. (ED.)

REFERENCE- RESEARCHES IN GEOCHEMISTRY. VOLUME 2.
JOHN WILEY AND SONS, INC., NEW YORK, 1967, P.
340-361.

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
THERMODYNAMICS.

229

TOWNS 60
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES. III. THE
STANDARD POTENTIAL OF THE SILVER-SILVER BROMIDE
ELECTRODE AND THE MEAN IONIC ACTIVITY
COEFFICIENT OF HYDROBROMIC ACID.

AUTHOR- TOWNS, M.B.; GREELEY, R.S.; LIETZKE, M.H. [OAK
RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 64, P.
1861-1863(1960).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ACTIVITY
COEFFICIENT; ELECTROMOTIVE FORCE; HYDROBROMIC

TRIBUS 60
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- THERMODYNAMIC AND ECONOMIC CONSIDERATIONS IN
THE PREPARATION OF FRESH WATER FROM THE SEA.

AUTHOR- TRIBUS, M.; ASIMOW, R.; RICHARDSON,
N.; GUSTALDO, C.; ELLIOT, K.; CHAMBERS, J.; EVANS,

REFERENCE- THERMODYNAMIC AND ECONOMIC CONSIDERATIONS
IN THE PREPARATION OF FRESH WATER FROM THE SEA.
59-34, DEPARTMENT OF ENGINEERING, UNIVERSITY
OF CALIFORNIA, LOS ANGELES, CA, 1960, 170 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; PARTIAL MOLAL VOLUME; VAPOR PRESSURE;
ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ACTIVITY COEFFICIENT; OSMOTIC
COEFFICIENT; PARTIAL MOLAL ENTHALPY; PARTIAL
MOLAL SPECIFIC HEAT; SEA WATER; SODIUM
CHLORIDES; WATER.

TSUJIOKA 57

TITLE- CHANGES OF VOLUME ON MIXING ELECTROLYTIC
SOLUTIONS WITH WATER.

AUTHOR- TSUJIOKA, A.

REFERENCE- KEIO UNIV. ENG. PROC., TOKYO, V. 10, P.
15-28(1957).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
APPARENT MOLAL VOLUME; DENSITY; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES; POTASSIUM IODIDES; SODIUM BROMIDES;
SODIUM CHLORIDES; SODIUM HYDROXIDES; SODIUM
IODIDES.

UNTERBERG 64
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THERMOPHYSICAL PROPERTIES OF AQUEOUS SODIUM
CHLORIDE SOLUTIONS.

AUTHOR- UNTERBERG, W. [CALIFORNIA UNIV., LOS ANGELES
(USA). DEPT. OF ENGINEERING].

REFERENCE- THERMOPHYSICAL PROPERTIES OF AQUEOUS
SODIUM CHLORIDE SOLUTIONS. NO. 64-21,
DEPARTMENT OF ENGINEERING, UNIV. OF CALIFORNIA,
LOS ANGELES, LOS ANGELES, CA, 1964.

DESCRIPTORS- REVIEWS; GRAPHS; BOILING POINT;
DENSITY; DIFFUSION; SOLUBILITY; THERMAL
CONDUCTIVITY; VAPOR PRESSURE; VISCOSITY;
SURFACE TENSION; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ENTHALPY;
SPECIFIC HEAT; VAPORIZATION HEAT; SODIUM
CHLORIDES.

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URUSOVA 74
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- PHASE EQUILIBRIUM AND THERMODYNAMIC
CHARACTERISTICS OF SOLUTIONS IN T HE
SYSTEMS NaCl-H₂O AND NaOH-H₂O AT 350-550
DEGREES C.

AUTHOR- URUSOVA, M.A. [ACADEMY OF SCIENCES, MOSCOW
(USSR). INST. OF GENERAL AND INORGANIC
CHEMISTRY].

REFERENCE- GEOCHEM. INT., V. 11 (5), P.
944-950 (1974). TRANSLATED FROM GEOKHIMIYA, V.
9, P. 1360-1366 (1974).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
DENSITY; PARTIAL MOLAL VOLUME; VAPOR PRESSURE;
SATURATED VAPOR; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; ELEVATED PRESSURE; HIGH
PRESSURE; ELEVATED TEMPERATURE; HIGH
TEMPERATURE; ACTIVITY COEFFICIENT; SODIUM
CHLORIDES; SODIUM HYDROXIDES; WATER.

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VASLOW 66
SOLUTIONS/VOLUMETRIC

TITLE- THE APPARENT MOLAL VOLUMES OF THE ALKALI
METAL CHLORIDES IN AQUEOUS SOLUTION AND
EVIDENCE FOR SALT-INDUCED STRUCTURE
TRANSITIONS.

AUTHOR- VASLOW, F. [OAK RIDGE NATIONAL LAB., TENN.
(USA)].

REFERENCE- J. PHYS. CHEM., V. 70 (7), P.
2286-2294(1966).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; APPARENT MOLAL
VOLUME; DENSITY; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; STANDARD TEMPERATURE;
DIFFERENTIAL BALANCES; ELECTROLYTES; CESIUM
CHLORIDES; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

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VASLOW 69
SOLUTIONS/VOLUMETRIC

TITLE- THE APPARENT MOLAL VOLUMES OF THE LITHIUM AND
SODIUM HALIDES. CRITICAL-TYPE TRANSITIONS IN
AQUEOUS SOLUTION.

AUTHOR- VASLOW, F. [OAK RIDGE NATIONAL LAB., TENN.
(USA)].

REFERENCE- J. PHYS. CHEM., V. 73 (11), P.
3745-50(1969).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
APPARENT MOLAL VOLUME; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; DIFFERENTIAL BALANCES; LITHIUM
BROMIDES; LITHIUM CHLORIDES; LITHIUM IODIDES;
SODIUM BROMIDES; SODIUM CHLORIDES; SODIUM
IODIDES.

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VASLOW 71
SOLUTIONS/THERMODYNAMICS

TITLE- SALT-INDUCED CRITICAL-TYPE TRANSITIONS IN
AQUEOUS SOLUTION. HEATS OF DILUTION OF THE
LITHIUM AND SODIUM HALIDES.

AUTHOR- VASLOW, F. [OAK RIDGE NATIONAL LAB., TENN.
(USA)].

REFERENCE- J. PHYS. CHEM., V. 75 (21), P.
3317-3321(1971).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; ENTHALPY; MIXING HEAT; DILUTION
HEAT; LITHIUM BROMIDES; LITHIUM CHLORIDES;
SODIUM BROMIDES; SODIUM CHLORIDES; SODIUM
IODIDES.

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VASLOW 72
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMICS OF SOLUTIONS OF ELECTROLYTES.
CHAPTER 12.

AUTHOR- VASLOW, F.

HORNE, R.A. (ED.)

REFERENCE- WATER AND AQUEOUS SOLUTIONS. STRUCTURE,
THERMODYNAMICS AND TRANSPORT PROCESSES.
WILEY-INTERSCIENCE, NEW YORK, 1972, P. 465-518.

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
EMPIRICAL EQUATIONS; GRAPHS; THERMODYNAMICS;
ACTIVITY COEFFICIENT; FREE ENERGY; OSMOTIC
COEFFICIENT; ELECTROLYTES; WATER.

238

VAUGHEN 57
SOLUTIONS/THERMODYNAMICS

TITLE- A STUDY OF THE EFFECT OF DISSOLVED Ag_2SO_4 ON
THE ACTIVITY OF H_2SO_4 SOLUTIONS BY MEANS OF
E.M.F. MEASUREMENTS.

AUTHOR- VAUGHEN, J.V.; LIETZKE, M.H. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. AM. CHEM. SOC., V. 79, P.
4266-4268(1957).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; ACTIVITY COEFFICIENT; ELECTROMOTIVE FORCE; SULFURIC ACID; SILVER SULFATES.

239

VITAGLIANO 74
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- CATION EXCHANGE DIFFUSION EXPERIMENTS.

AUTHOR- VITAGLIANO, V.; SARTORIO, R.; CONSTANTINO, L.
[NAPLES UNIV. (ITALY)].

REFERENCE- J. PHYS. CHEM., V. 78 (22), P.
2292-2296(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; DIFFUSION; TRANSFERENCE NUMBER;
REFRACTIVE INDEX; ION EXCHANGE; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ACTIVITY
COEFFICIENT; ELECTROLYTES; SODIUM CHLORIDES;
ION MOBILITY.

240

VOGEL 67
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- SOME PHYSICOCHEMICAL PROPERTIES OF THE
KOH-H₂O SYSTEM. RANGE/55 TO 85 WEIGHT PERCENT
AND 120 TO 250 DEGREES C.

AUTHOR- VOGEL, W.M.; ROUTSIS, K.J.; KEHRER,
V.J.; LANDSMAN, D.A.; TSCHINKEL, J.G. [PRATT AND
WHITNEY AIRCRAFT, MIDDLETOWN, CONN. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 12 (4), P.
465-472(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; DENSITY;
DIFFUSION; ELECTRIC CONDUCTIVITY; THERMAL
EXPANSIVITY; MELTING POINT; SOLUBILITY; VAPOR
PRESSURE; VISCOSITY; PHASE DIAGRAMS; HIGH
CONCENTRATION; ELEVATED TEMPERATURE; POTASSIUM

241

WARD 74
SOLUTIONS/VOLUMETRIC

TITLE- MOLAL VOLUME OF AQUEOUS BORIC ACID-SODIUM
CHLORIDE SOLUTIONS.

AUTHOR- WARD, G.K.; MILLER, F.J. [MIAMI UNIV., FLA.
(USA). ROSENSTIEL SCHOOL OF MARINE AND
ATMOSPHERIC SCIENCES].

REFERENCE- J. SOLUTION CHEM., V. 3 (6), P.
431-444(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
APPARENT MOLAL VOLUME; DENSITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; HYDROSTATIC WEIGHING;
ELECTROLYTES; SODIUM CHLORIDES; BORIC ACID.

242

WEILL 64

TITLE- THE SOLUBILITY OF QUARTZ IN H₂O IN THE RANGE
1000-4000 BARS AND 400-550 DEGREES C.

AUTHOR- WEILL, D.F. [CALIFORNIA UNIV., LA JOLLA, SAN
DIEGO (USA)].

FYFE, W.S. [CALIFORNIA UNIV., BERKELEY

REFERENCE- GEOCHIM. COSMOCHIM. ACTA, V. 28, P.
1243-1255(1964).

DESCRIPTORS- GRAPHS; TABLES; SOLUBILITY; HIGH
PRESSURE; HIGH TEMPERATURE; WATER; QUARTZ;
SILICA.

243

WELLMAN 70
SOLUTIONS/THERMODYNAMICS

TITLE- FUGACITIES AND ACTIVITY COEFFICIENTS OF NaCl
IN NaCl-H₂O FLUIDS AT ELEVATED TEMPERATURES AND

PRESSURES.

AUTHOR- WELLMAN, T.R. [YALE UNIV., NEW HAVEN, CONN.
(USA). DEPT. OF GEOLOGY AND GEOPHYSICS].

REFERENCE- AM. J. SCI., V. 269, P. 402-413(1970).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
PRESSURE; HIGH TEMPERATURE; ACTIVITY
COEFFICIENT; FREE ENERGY; FUGACITY; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

244

WIRTH 37
SOLUTIONS/VOLUMETRIC

TITLE- THE PARTIAL MOLAL VOLUMES OF POTASSIUM
CHLORIDE, POTASSIUM BROMIDE AND POTASSIUM
SULFATE IN SODIUM CHLORIDE SOLUTIONS.

AUTHOR- WIRTH, H.E. [NORTH DAKOTA AGRICULTURAL
COLLEGE, (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 59, P.
2549-2554(1937).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; APPARENT MOLAL
VOLUME; PARTIAL MOLAL VOLUME; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; HYDROSTATIC WEIGHING; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
SULFATES.

245

WIRTH 40
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT AND PARTIAL MOLAL VOLUMES OF SODIUM
CHLORIDE AND HYDROCHLORIC ACID IN MIXED
SOLUTIONS.

AUTHOR- WIRTH, H.E. [NORTH DAKOTA AGRICULTURAL
COLLEGE, (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 62, P.
1128-1134(1940).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;

EXPERIMENTAL RESULTS; TABLES; APPARENT MOLAL VOLUME; PARTIAL MOLAL VOLUME; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; HYDROCHLORIC ACID; SODIUM

246

WIRTH 40B
SOLUTIONS/VOLUMETRIC

TITLE- THE PROBLEM OF THE DENSITY OF SEA WATER.

AUTHOR- WIRTH, H.E. (OHIO STATE UNIV., COLUMBUS (USA). DEPT. OF CHEMISTRY).

REFERENCE- J. MARINE RES., V. 3 (3), P. 230-247(1940).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS; APPARENT MOLAL VOLUME; DENSITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; ELECTROLYTES; SEA WATER; CALCIUM CHLORIDES; MAGNESIUM CHLORIDES; MAGNESIUM SULFATES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; POTASSIUM FLUORIDES; POTASSIUM SULFATES; SODIUM BICARBONATES; SODIUM CHLORIDES.

247

WIRTH 72
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT MOLAL VOLUMES OF SODIUM CHLORIDE AND MAGNESIUM CHLORIDE IN AQUEOUS SOLUTION.

AUTHOR- WIRTH, H.E.; BANGERT, F.K. [SYRACUSE UNIV., N.Y. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 76 (23), P. 3488-3490(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; APPARENT MOLAL VOLUME; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; DILATOMETERS; MAGNESIUM CHLORIDES; SODIUM CHLORIDES.

248

WIRTH 72B
SOLUTIONS/VOLUMETRIC

TITLE- VOLUME CHANGES ON MIXING SOLUTIONS OF
MAGNESIUM CHLORIDE AND SODIUM CHLORIDE.

AUTHOR- WIRTH, H.E.; BANGERT, F.K. [SYRACUSE UNIV.,
N.Y. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 76 (23), P.
3491-3494(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; APPARENT
MOLAL VOLUME; MIXING VOLUME; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; MAGNESIUM
CHLORIDES; SODIUM CHLORIDES.

249

WOOD 70
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROLYTES.

AUTHOR- WOOD, R.H.; REILLY, P.J. [DELAWARE UNIV.,
NEWARK (USA). DEPT. OF CHEMISTRY].

REFERENCE- ELECTROLYTES. 1970, P. 387-406.

DESCRIPTORS- REVIEWS; THERMODYNAMICS; ELECTROLYTES.

250

WRIGHT 40
SOLUTIONS/VOLUMETRIC

TITLE- THE RELATION BETWEEN THE COEFFICIENT OF
THERMAL EXPANSION AND STRUCTURE OF SOLUTIONS.

AUTHOR- WRIGHT, R. [GLASGOW UNIV. (UK)].

REFERENCE- J. CHEM. SOC. A, V. 1940A, P.
870-873(1940).

DESCRIPTORS- TABLES; THERMAL EXPANSIVITY; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; LITHIUM BROMIDES; LITHIUM
CHLORIDES; LITHIUM IODIDES; POTASSIUM BROMIDES;
POTASSIUM CHLORIDES; POTASSIUM IODIDES;
POTASSIUM NITRATES; SODIUM BROMIDES; SODIUM
CHLORIDES; SODIUM IODIDES.

YEATTS 67
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- AQUEOUS SYSTEMS AT HIGH TEMPERATURE. XVIII.
ACTIVITY COEFFICIENT BEHAVIOR OF CALCIUM
HYDROXIDE IN AQUEOUS SODIUM NITRATE TO THE
CRITICAL TEMPERATURE OF WATER.

AUTHOR- YEATTS, L.B.; MARSHALL, W.L. [CAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 71, P.
2641-2650(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
SOLUBILITY; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ACTIVITY
COEFFICIENT; ENTHALPY; ENTROPY; FREE ENERGY;
SPECIFIC HEAT; CALCIUM CARBONATES; SODIUM
NITRATES; CALCIUM HYDROXIDES.

YEATTS 69
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- APPARENT INVARIANCE OF ACTIVITY COEFFICIENTS
OF CALCIUM SULFATE AT CONSTANT IONIC STRENGTH
AND TEMPERATURE IN THE SYSTEM $\text{CaSO}_4\text{-NaNO}_3\text{-H}_2\text{O}$
TO THE CRITICAL TEMPERATURE OF WATER.
ASSOCIATION EQUILIBRIA.

AUTHOR- YEATTS, L.B.; MARSHALL, W.L. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 73, P. 81-90(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
EQUILIBRIUM CONSTANT; SOLUBILITY; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; HIGH
TEMPERATURE; ENTHALPY; ENTROPY; FREE ENERGY;
SPECIFIC HEAT; CALCIUM SULFATES; SODIUM
SULFATES; SODIUM NITRATES.

ZEN 57
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL MOLAR VOLUMES OF SOME SALTS IN
AQUEOUS SOLUTION.

AUTHOR- ZEN, E. [HARVARD UNIV., CAMBRIDGE, MASS.
(USA)].

REFERENCE- GEOCHIM. COSMOCHIM. ACTA, V. 12, P.
103-122(1957).

DESCRIPTORS- REVIEWS; TABLES; PARTIAL MOLAL VOLUME;
LOW TEMPERATURE; STANDARD TEMPERATURE;
ELECTROLYTES; IONS; CALCIUM CHLORIDES; CESIUM
CHLORIDES; HYDROCHLORIC ACID; MAGNESIUM
SULFATES; NITRIC ACID; POTASSIUM BROMIDES;
POTASSIUM CARBONATES; POTASSIUM CHLORIDES;
POTASSIUM HYDROXIDES; POTASSIUM NITRATES;
POTASSIUM SULFATES; SODIUM BROMIDES; SODIUM
CARBONATES; SODIUM CHLORIDES; SODIUM
HYDROXIDES; SODIUM SULFATES.

ABDULLAEV 73

TITLE- SOLUBILITY OF CALCIUM SULFATE IN A BOILING
WATER SOLUTION OF SODIUM CHLORIDE AND SODIUM
SULFATE AT 107 BARS PRESSURE.

AUTHOR- ABDULLAEV, K.M.; SHISHCHENKO, V.V.; KRİKUN,
M.M.; CHERVONSKAYA, E.YA.; DAVYDOV, G.M.

REFERENCE- UCH. ZAP., AZERB. INST. NEFTI KHIM., SER.
9, NO. 5, P. 34-39(1973). REFERENCE. CHEM.
ABSTR., V. 81, ABSTR. NO. 159676U.

AFZAL 68

TITLE- COMMON ION EFFECT OR WHAT?.

AUTHOR- AFZAL, M.; HAMID, R. [UNIV. INST. CHEM.,
LAHORE (PAKISTAN)].

REFERENCE- PAK. J. SCI., V. 20 (4), P.

182-185(1968). REFERENCE. CHEM. ABSTR., V. 72,
ABSTR. NO. 9123M.

256

AGAEV 72

TITLE- PHYSICOCHEMICAL STUDY OF A RECIPROCAL SYSTEM
CONSISTING OF POTASSIUM AND METAL CHLORIDES AND
NITRATES AND WATER. SOLUBILITY ISOTHERM OF THE
SYSTEM POTASSIUM CHLORIDE-POTASSIUM
NITRATE-WATER, WITH SIMULTANEOUS DETERMINATION
OF SPECIFIC GRAVITY, VISCOSITY, AND REFRACTIVE
INDEX AT 25 DEGREES. II..

AUTHOR- AGAEV, A.I.; MAMEDOV, F.A.; MAMEDOV, A.A.

REFERENCE- UCH. ZAP., AZERB. UNIV., SER. KHIM. NAUK,
NO. 3 P. 14-16(1972). REFERENCE. CHEM. ABSTR.,
V. 79, ABSTR. NO. 84010V.

257

AHSANULLAH 70
SOLUTIONS/MISC.

TITLE- TEMPERATURE DEPENDENCE OF INTERMOLECULAR
ACTIVATION ENERGY FOR FLOW IN LIQUID AND
SOLUTION. VIII. INFLUENCE OF SODIUM CHLORIDE
CONCENTRATION ON THE ACTIVATION ENERGY JUMPS
OBSERVED IN WATER.

AUTHOR- AHSANULLAH, A.K.M.; MIAN, M.E.; QURASHI, M.M.

REFERENCE- PAK. J. SCI. IND. RES., V. 12 (4), P.
349-356(1970).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
VISCOSITY; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; MODERATE TEMPERATURE; SODIUM
CHLORIDES.

258

AKHUMOV 72
SOLUTIONS/MISC.

TITLE- THEORETICAL ASPECTS OF THE SOLUBILITY OF
SUBSTANCES IN MIXED SOLVENTS OF CONSTANT

COMPOSITION. 2.

AUTHOR- AKHUMOV, E.I.

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM. TEKHNOL., V. 15 (1), P. 55-58(1972).

DESCRIPTORS- GRAPHS; TABLES; SOLUBILITY; HIGH CONCENTRATION; LOW TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES; POTASSIUM CHLORIDES; MIXTURES.

259

ALEKSANDROV 67

TITLE- PRESSURE OF WATER VAPOR ABOVE SOLUTIONS.

AUTHOR- ALEKSANDROV, E.L.

REFERENCE- TR. INST. PRIKL. GEOFIZ., NO. 9, P. 77-82(1967). REFERENCE. CHEM. ABSTR., V. 70, ABSTR. NO. 61314X.

260

ANDERSON 67

TITLE- REACTIONS OF QUARTZ AND CORUNDUM WITH AQUEOUS CHLORIDE AND HYDROXIDE SOLUTIONS AT HIGH TEMPERATURES AND PRESSURES.

AUTHOR- ANDERSON, G.M.; BURNHAM, C.W. [PENNSYLVANIA STATE UNIV., UNIVERSITY PARK (USA)].

REFERENCE- AM. J. SCI., V. 265 (1), P. 12-27(1967). REFERENCE, CHEM. ABSTR., V. 66, ABSTR. NO. 59358P.

261

ANDERSEN 71B
SOLUTIONS/THERMODYNAMICS

TITLE- MODE EXPANSION IN EQUILIBRIUM STATISTICAL MECHANICS. III. OPTIMIZED CONVERGENCE AND APPLICATION TO IONIC SOLUTION THEORY.

AUTHOR- ANDERSEN, H.C.; CHANDLER, D. [STANFORD UNIV., CALIF. (USA). DEPT. OF CHEMISTRY; ILLINOIS

UNIV., URBANA (USA). SCHOOL OF CHEMICAL SCIENCES].

REFERENCE- J. CHEM. PHYS., V. 55 (4), P. 1497-1504(1971).

DESCRIPTORS- THEORETICAL TREATMENTS; TABLES; THERMODYNAMICS; FREE ENERGY; OSMOTIC COEFFICIENT; ELECTROLYTES.

262

ANDROSOV 72B

TITLE- DENSITIES OF AQUEOUS SOLUTIONS OF POTASSIUM CHLORIDE AT HIGH TEMPERATURES. (IN RUSSIAN).

AUTHOR- ANDROSOV, V.I.; BAGDASARYAN, V.S. [GOS. NAUCHNO-ISSLED INST. AVTOMAT. PROIZVOD. PROTSOSSOV KHIM. PROM. TSVET. METALL., KIROVAKAN (USSR)].

REFERENCE- TR. GOS. NAUCHNO-ISSLED. INST. AVTOM. PROIZVOD. PROTSOSSOV KHIM. PROM. TSVETN. METALL., NO. 47, P. 35-38(1972). REFERENCE. CHEM. ABSTR., V. 79, ABSTR. NO. 45954M.

263

AUSLANDER 74
SOLUTIONS/VOLUMETRIC

TITLE- DETERMINATION OF MOLECULAR PROPERTIES OF LIQUIDS BY ULTRASONIC MEASUREMENTS.

AUTHOR- AUSLANDER, D.; RUS, E.; CIUPE, A.; LENART, I.

REFERENCE- STUD. UNIV. BABES-BOLYAI, SER. PHYS., V. 19 (1), P. 59-64(1974).

DESCRIPTORS- GRAPHS; COMPRESSIBILITY; EXPERIMENTAL RESULTS; ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; CALCIUM CHLORIDES; STRONTIUM CHLORIDES.

264

AZAD 67

TITLE- ELECTRIFICATION ASSOCIATED WITH THE
EVAPORATION OF WATER AND IONIC SOLUTIONS.

AUTHOR- AZAD, A.K.;LATHAM, J. [UNIV. MANCHESTER
INST. TECHNOL., MANCHESTER (UK)].

REFERENCE- J. ATOMS. TEOR. PHYS., V. 29 (11), P.
1403-1410(1967). REFERENCE. CHEM. ABSTR., V.
67, ABSTR. NO. 111282W.

265

BANNARD 75

TITLE- EFFECT OF DENSITY ON THE ELECTRICAL
CONDUCTANCE OF AQUEOUS SODIUM CHLORIDE
SOLUTIONS.

AUTHOR- BANNARD, J.E. [NOTTINGHAM UNIV. (UK)].

REFERENCE- J. APPL. ELECTROCHEM., V. 5 (1), P.
43-53(1975). REFERENCE, CHEM. ABSTR., V. 83,
ABSTR. NO. 104095Q.

266

BERECZ 71

TITLE- STRUCTURE OF METAL CHLORIDE-HYDROCHLORIC
ACID-WATER AND METAL SULFATE-SULFURIC
ACID-WATER TYPE SYSTEMS.

AUTHOR- BERECZ, E.

REFERENCE- TEOR. RASTVOROV, V. 1971, P. 77-85(1971).
REFERENCE. CHEM. ABSTR., V. 78, ABSTR. NO.
48059P.

267

BEREMZHANOV 71

TITLE- KINETIC CURVES AND DIAGRAMS OF THE
COSOLUBILITY OF TWO SALTS IN WATER. (IN
RUSSIAN).

AUTHOR- BEREMZHANOV, B.A.;KARAZHANOV,
N.A.;TOKSEITOV, K.K.;SERDYUK, V.V. [KAZAKHSKIJ
GOSUDARSTVENNYJ UNIV., ALMA-ATA (USSR)].

REFERENCE- IZV. AKAD. NAUK KAZ. SSR, SER. KHIM., V.
21 (4), P. 9-13(1971). REFERENCE, CHEM.
ABSTR., V. 75, ABSTR. NO. 144357T.

268

BHATT 70
SOLUTIONS/MISC.

TITLE- DIFFUSION COEFFICIENT OF MARINE SALT IN
AQUEOUS MEDIA.

AUTHOR- BHATT, M.P.; DATAR, D.S. [CENTRAL SALT AND
MARINE RESEARCH INST., BHAVNAGAR (INDIA)].

REFERENCE- SALT RES. IND., V. 7 (4), P. 79-83(1970).
REFERENCE, CHEM. ABSTR., V. 75, ABSTR. NO.
25674J.

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; DIFFUSION;
SOLUBILITY; ELECTROLYTES; SEA WATER.

269

BLANCHARD 73
SOLUTIONS/MISC.

TITLE- MEASUREMENT OF THE PERMITTIVITY AND
ELECTRICAL CONDUCTIVITY OF ELECTROLYTE
SOLUTIONS BY THE MAXWELL-WAGNER EFFECT.

AUTHOR- BLANCHARD, J.M.; MAUREL, P.; REGNIER, J.F.
[MONTPELLIER-2 UNIV., 34 (FRANCE)].

REFERENCE- C.R. ACAD. SCI., SER. B, V. 276 (22), P.
829-832(1973).

DESCRIPTORS- GRAPHS; DIELECTRIC CONSTANT;
EXPERIMENTAL RESULTS; ELECTRIC CONDUCTIVITY;
LOW CONCENTRATION; STANDARD TEMPERATURE;
POTASSIUM CHLORIDES.

270

BOCKRIS 70B

TITLE- IONIC SOLVATION.

AUTHOR- BOCKRIS, J.O'M.; SALUJS, P.P.S.; MADAN, G.

[PENNSYLVANIA UNIV., PHILADELPHIA (USA)].

REFERENCE- IONIC SOLVATION. NO. 569, U.S. OFF.
SALINE WATER, RES. DEV. PROG. REP., 1970, 155
P.. REFERENCE. CHEM. ABSTR., V. 74, ABSTR. NO.
35269Z.

271

BORODENKO 75
SOLUTIONS/THERMODYNAMICS

TITLE- HEAT CAPACITIES AND HEAT OF DILUTION OF
AQUEOUS SOLUTION OF NaCl AND KCl AT 300
DEGREES.

AUTHOR- BORODENKO, V.I.; GALINKER, I.S.

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM.
TEKHNOL., V. 18 (4), P. 591-594(1975).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DILUTION HEAT; SOLUTION HEAT; SPECIFIC HEAT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD TEMPERATURE; ELEVATED TEMPERATURE;
CALCIUM CHLORIDES; SODIUM CHLORIDES.

272

BOROVSKII 71

TITLE- EVAPORATION OF WATER FROM SOLUTIONS OF SODIUM
CHLORIDE AND SODIUM SULFATE. (IN RUSSIAN).

AUTHOR- BOROVSKII, V.M.; SHAROSHKINA, N.B.

REFERENCE- VESTN. AKAD. NAUK KAZ. SSR, V. 27 (2), P.
13-21(1971). REFERENCE. CHEM. ABSTR., V. 74,
ABSTR. NO. 101896E.

273

BREITSCHWERDT 74

TITLE- STRUCTURAL RELAXATION IN WATER AND IONIC
SOLUTIONS.

AUTHOR- BREITSCHWERDT, K.G. [HEIDELBERG UNIV. (F.R.
GERMANY). INST. FUER ANGEWANDTE PHYSIK].

REFERENCE- STRUCT. WATER AQUEOUS SOLUTIONS, PROC.
INT. SYMP.. 1974, P. 473-490. REFERENCE. CHEM.
ABSTR., V. 83, ABSTR. NO. 121085D.

274

BRESCIA 70
SOLUTIONS/MISC.

TITLE- HIGH FREQUENCY ELECTROLYTIC CONDUCTION. (IN
ITALIAN).

AUTHOR- BRESCIA, G.; CARRELLI, A.; GROSSETTI, E.

REFERENCE- ATTI. ACCAD. NAZ. LINCEI, CL. SCI. FIS.,
MAT. NAT., REND., V. 48 (6), P. 607-614(1970).
REFERENCE. CHEM. ABSTR., V. 75, ABSTR. NO.
11051S.

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; ELECTRIC CONDUCTIVITY;
STANDARD PRESSURE; ELECTROLYTES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

275

BURAKOWSKI 70
SOLUTIONS/MISC.

TITLE- EFFECT OF THE CONCENTRATION OF POTASSIUM
CHLORIDE ON ITS DIFFUSIVITY IN AQUEOUS
SOLUTIONS.

AUTHOR- BURAKOWSKI, J. [AKADEMIA MEDYCZNA, WROCLAW
{POLAND}].

REFERENCE- CHEM. STOSOW., SER. A, V. 14 (1), P.
33-38(1970). REFERENCE. CHEM. ABSTR., V. 73,
ABSTR. NO. 91537B.

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
DIFFUSIVITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; POTASSIUM CHLORIDES.

276

BUSEV 71
SOLUTIONS/THERMODYNAMICS

TITLE- DETERMINATION OF THE ACTIVITY OF SODIUM AND POTASSIUM IONS IN MIXED HIGHLY DILUTED CHLORIDE SOLUTIONS.

AUTHOR- BUSEV, V.M. [LENINGRAD INST., TSITOL. (USSR). LAB. BIOL KHETKI.].

REFERENCE- NAUCHN. SOOBESHCH. INST. BIOL. MORYA, DAL'NEVOST. NAUCHN. TSENTR, AKAD. NAUK SSSR, NO. 2, P. 38-41(1971). REFERENCE. CHEM. ABSTR., V. 79, ABSTR. NO. 46273A.

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL EQUATIONS; TABLES; ACTIVITY COEFFICIENT; LOW CONCENTRATION; MIXTURES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

277

BUTLER 68B

TITLE- THERMODYNAMIC ACTIVITY OF CALCIUM ION IN SODIUM CHLORIDE-CALCIUM CHLORIDE ELECTROLYTES.

AUTHOR- BUTLER, J.N. [TYCO LABS., INC., WALTHAM, MASS. (USA)].

REFERENCE- BIOPHYS. J., V. 8 (12), P. 1426-1433(1968). REFERENCE. CHEM. ABSTR., V. 70, ABSTR. NO. 61790Z.

278

BUTLER 69

TITLE- USE OF AMALGAM ELECTRODES TO MEASURE ACTIVITY COEFFICIENTS OF METAL SALTS IN MULTICOMPONENT SALT SOLUTIONS.

AUTHOR- BUTLER, J.N.; HUSTON, R. [TYCO LABS., INC., WALTHAM, MASS. (USA)].

REFERENCE- USE OF AMALGAM ELECTRODES TO MEASURE ACTIVITY COEFFICIENTS OF METAL SALTS IN MULTICOMPONENT SALT SOLUTIONS. PB-203121, 1969, 149 P.. REFERENCE. CHEM. ABSTR., V. 76, ABSTR. NO. 80204B.

279

TITLE- DETERMINATION OF THE ACTIVITY COEFFICIENT OF
CALCIUM CHLORIDE IN SOLUTION USING A MEMBRANE
ELECTRODE.

AUTHOR- CACHAZA, J.M.;CASAL, R.

REFERENCE- AN. QUIM., V. 69 (9-10), P.
959-963(1973).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; CALCIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; MIXTURES.

280

CAPPELLINA 67

TITLE- HEAT OF SOLUTION OF SOME MAGNESIUM AND ALKALI
SALTS. II. EFFECT OF TEMPERATURE.

AUTHOR- CAPPELLINA, F.;NAPOLITANO, G. [LAB. RIC.
SINGAT S.P.A., PRIOLO, SICILY].

REFERENCE- ANN. CHIM. (ROME), V. 57 (10), P.
1087-1105(1967). REFERENCE. CHEM. ABSTR., V.
68, ABSTR. NO. 54112K.

281

CHANU 67

TITLE- THERMAL DIFFUSION OF HALIDES IN AQUEOUS
SOLUTION.

AUTHOR- CHANU, J. [MUSEUM NATIONAL D'HISTOIRE
NATURELLE, 75-PARIS (FRANCE)].

REFERENCE- ADV. CHEM. PHYS., V. 13, P.
349-367(1967). REFERENCE. CHEM. ABSTR., V. 69,
ABSTR. NO. 81069D.

282

TITLE- THERMODYNAMICS OF MULTICOMPONENT ELECTROLYTE SOLUTIONS. AQUEOUS MIXTURES OF TWO SALTS FROM AMONG SODIUM CHLORIDE, POTASSIUM CHLORIDE, SODIUM DIHYDROGEN PHOSPHATE, AND POTASSIUM DIHYDROGEN PHOSPHATE AT 25 DEGREES.

AUTHOR- CHILDS, C.W.; DOWNES, C.J.; PLATFORD, R.F.
[DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, LOWER HUTT (NEW ZEALAND)]. SOIL

REFERENCE- J. SOLUTION CHEM., V. 3 (2), P. 139-147(1974). REFERENCE. CHEM. ABSTR., VOL. 81, ABSTR. NO. 30505H.

283

CHOLIAN 66
SOLUTIONS/VOLUMETRIC

TITLE- ADIABATIC COMPRESSIBILITY OF AQUEOUS SOLUTIONS OF ELECTROLYTES. (IN RUSSIAN).

AUTHOR- CHOLIAN, P.P.

REFERENCE- AKUST. ZH., V. 12 (1), P. 93-97(1966).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES; COMPRESSIBILITY; VELOCITY OF SOUND; PYCNOMETERS; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; LOW TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES; CESIUM CHLORIDES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; SODIUM BROMIDES; SODIUM CHLORIDES.

284

CHOLPAN 67

TITLE- VISCOSITY OF AQUEOUS SOLUTION OF ELECTROLYTES.

AUTHOR- CHOLPAN, P.P.

REFERENCE- VISN. KIIV. UNIV., SER. FIZ. KHIM., NO. 7, P. 17-21(1967). REFERENCE. CHEM. ABSTR., V. 69, ABSTR. NO. 100154W.

285

CHOU 68

TITLE- THERMODYNAMIC PROPERTIES OF AQUEOUS SODIUM
CHLORIDE SOLUTION FROM 32-350 DEGREES F.

AUTHOR- CHOU, J.C.S. [OKLAHOMA STATE UNIV.,
STILLWATER (USA)].

REFERENCE- THERMODYNAMIC PROPERTIES OF AQUEOUS
SODIUM CHLORIDE SOLUTION FROM 32-350 DEGREES F.
THESIS, 1968, 129 P.. REFERENCE. CHEM. ABSTR.,
V. 72, ABSTR. NO. 104683C.

286

CHOU 69
SOLUTIONS/THERMODYNAMICS

TITLE- ENTHALPIES OF AQUEOUS SODIUM CHLORIDE
SOLUTIONS FROM 32 TO 350 DEGREES F.

AUTHOR- CHOU, J.C.S.

REFERENCE- DESALINATION, V. 6 (1), P. 105-115(1969).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; DILUTION HEAT; ENTHALPY; VAPORIZATION
HEAT; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; SATURATED VAPOR; STANDARD
PRESSURE; MODERATE PRESSURE; ELEVATED PRESSURE;
HIGH PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SODIUM CHLORIDES.

287

CLASS 68

TITLE- CALCULATING THE SOLUBILITY OF SOLID MATTER IN
LIQUID PHASES. (IN GERMAN).

AUTHOR- CLASS, G. [GROSSKESSELBESITZER E.V., ESSEN
(F.R. GERMANY)].

REFERENCE- BRENNST.-WAERME-KRAFT, V. 20 (2), P.
77-81(1968). REFERENCE. CHEM. ABSTR., V. 70,
ABSTR. NO. 23497B.

288

COBBLE 64
SOLUTIONS/THERMODYNAMICS

TITLE- THE THERMODYNAMIC PROPERTIES OF
HIGH-TEMPERATURE AQUEOUS SOLUTIONS. VI.
APPLICATIONS OF ENTROPY CORRESPONDENCE TO
THERMODYNAMICS AND KINETICS.

AUTHOR- COBBLE, J.W. [PURDUE UNIV., LAFAYETTE, IND.
(USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 86, P.
5394-5401(1964).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DISSOCIATION CONSTANT; ELECTROMOTIVE FORCE;
SOLUBILITY; THERMODYNAMICS; ACTIVITY
COEFFICIENT; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; ELECTROLYTES; SILICATES; HYDROGEN
SULFIDES; URANIUM COMPOUNDS; WATER.

289

COBBLE 66
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- HIGH TEMPERATURE AQUEOUS SOLUTIONS.

AUTHOR- COBBLE, J.W. [PURDUE UNIV., LAFAYETTE, IND.
(USA). DEPT. OF CHEMISTRY].

REFERENCE- SCIENCE, V. 152, P. 1479-1485(1966).

DESCRIPTORS- REVIEWS; GRAPHS; DIELECTRIC CONSTANT;
ELECTRIC CONDUCTIVITY; VISCOSITY;
THERMODYNAMICS; INFINITE DILUTION; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ELECTROLYTES.

290

COURTY 68

TITLE- DIFFUSION OF SOLUTES IN LIQUIDS. III.
PARTIALLY DISSOCIATED ELECTROLYTES. (IN
FRENCH).

AUTHOR- COURTY, C. [FAC. SCI. LYON, LYONS (FR)].

REFERENCE- BULL. TRAV. SOC. PHARM. LYON, V. 12 (1),

P. 3-7(1968). REFERENCE. CHEM. ABSTR., V. 71,
ABSTR. NO. 105494H.

291

CRAFT 75

TITLE- SOLVENT ISOTOPE EFFECTS IN THE
WATER-DEUTERIUM OXIDE-SODIUM CHLORIDE SYSTEM.
ENTHALPIES AND FREE ENERGIES OF SOLUTION.

AUTHOR- CRAFT, Q.D. [TENNESSEE UNIV., KNOXVILLE
(USA)].

REFERENCE- SOLVENT ISOTOPE EFFECTS IN THE
WATER-DEUTERIUM OXIDE-SODIUM CHLORIDE SYSTEM.
ENTHALPIES AND FREE ENERGIES OF SOLUTION.
THESIS, 1975, 115 P.. REFERENCE. CHEM. ABSTR.,
V. 83, ABSTR. NO. 169210T.

292

CRISS 73

TITLE- THERMODYNAMIC MEASUREMENTS. I. SOLUBILITY,
CALORIMETRY, VOLUME MEASUREMENTS, AND
VISCOSITIES.

AUTHOR- CRISS, C.M. [MIAMI UNIV., CORAL GABLES, FLA.
(USA)].

REFERENCE- PHYS. CHEM. ORG. SOLVENT SYST., V. 1972,
P. 23-135(1973). REFERENCE. CHEM. ABSTR., V.
80, ABSTR. NO. 74892R.

293

CUKROWSKI 69B
SOLUTIONS/MISC.

TITLE- DIFFUSION AND SELF-DIFFUSION IN LIQUID BINARY
ELECTROLYTE SOLUTION.

AUTHOR- CUKROWSKI, A.S.

REFERENCE- Z. PHYS. CHEM. (LEIPZIG), V. 240 (3-4),
P. 285-287(1969).

DESCRIPTORS- THEORETICAL TREATMENTS; DIFFUSION.

CUKROWSKI 69C
SOLUTIONS/MISC.

TITLE- TRANSFER PROCESSES OF A TRACER ION IN LIQUID SOLUTIONS OF BINARY ELECTROLYTES.

AUTHOR- CUKROWSKI, A.S. [POLISH ACADEMY OF SCIENCES, WARSAW (POLAND). INST. OF BASIC TECHNICAL PROBLEMS].

BARANOWSKI, B. [POLISH ACADEMY OF SCIENCES, WARSAW (POLAND). INST. OF PHYSICAL CHEMISTRY].

REFERENCE- Z. PHYS. CHEM. (LEIPZIG), V. 240 (3-4), P. 253-264(1969).

DESCRIPTORS- THEORETICAL TREATMENTS; DIFFUSION; THERMAL DIFFUSION; TRANSPORT PROPERTIES; ELECTROLYTES.

CUKROWSKI 69D
SOLUTIONS/MISC.

TITLE- TRANSFER PROCESSES IN LIQUID SOLUTION OF BINARY ELECTROLYTES IN POLYTHERMAL CONDITIONS.

AUTHOR- CUKROWSKI, A.S.; BARANOWSKI, B. [POLISH ACADEMY OF SCIENCES, WARSAW (POLAND). INST. OF BASIC TECHNICAL PROBLEMS].

REFERENCE- Z. PHYS. CHEM. (LEIPZIG), V. 240 (3-4), P. 167-176(1969).

DESCRIPTORS- THEORETICAL TREATMENTS; THERMAL CONDUCTIVITY; THERMAL DIFFUSION; TRANSPORT PROPERTIES; ELECTROLYTES.

DERYABINA 70
SOLUTIONS/THERMODYNAMICS

TITLE- CHANGES IN ENTHALPY DURING THE MIXING OF LITHIUM CHLORIDE AND SODIUM CHLORIDE AQUEOUS SOLUTIONS AT 25 DEGREES. (IN RUSSIAN).

AUTHOR- DERYABINA, L.D.

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM.
TEKHNOL., V. 13 (5), P. 634-636(1970).

DESCRIPTORS- GRAPHS; ENTHALPY; MIXING VOLUME;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD TEMPERATURE; LITHIUM CHLORIDES; SODIUM
CHLORIDES.

297

DERYABINA 70B

TITLE- HEATS OF MIXING OF LITHIUM CHLORIDE AND
POTASSIUM CHLORIDE SOLUTIONS AT 25 DEGREES.

AUTHOR- DERYABINA, L.D.

REFERENCE- SB. TR. MOSK. TEKHNOL. INST., NO. 18, P.
61-67(1970). REFERENCE. CHEM. ABSTR., V. 75,
ABSTR. NO. 41228X.

298

DROST-HANSEN 68B

TITLE- VISCOSITY AND CONDUCTIVITY STUDIES.

AUTHOR- DROST-HANSEN, W.; KORSON, L.; HUNTER,
J.A.; GILLAM, W.S.; JOHNSON, S. [MIAMI UNIV.,
FLA. (USA)].

REFERENCE- VISCOSITY AND CONDUCTIVITY STUDIES. NO.
349, U.S. OFF. SALINE WATER, RES. DEV. PROG.
REP., 1968, 74 P.. REFERENCE. CHEM. ABSTR., V.
70, ABSTR. NO. 61274J.

299

DUEDALL 68

TITLE- PARTIAL MOLAL VOLUMES OF 16 SALTS IN SEA
WATER.

AUTHOR- DUEDALL, I.W. [BEDFORD INST., DARTMOUTH
(NOVA SCOTIA). FISH. RES. BOARD CANADA].

REFERENCE- ENVIRON. SCI. TECHNOL., V. 2 (9), P.
690-691(1968). REFERENCE. CHEM. ABSTR., V. 69,

DUNN 74
SOLUTIONS/VOLUMETRIC

TITLE- ION-SOLVENT INTERACTIONS IN AQUEOUS SOLUTIONS
AT VARIOUS TEMPERATURES.

AUTHOR- DUNN, L.A. [TASMANIA UNIV., HOBART
(AUSTRALIA). DEPT. OF CHEMISTRY].

REFERENCE- J. SOLUTION CHEM., V. 3 (1), P.
1-14(1974). REFERENCE. CHEM. ABSTR., V. 80,
ABSTR. NO. 149377N.

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; PARTIAL MOLAL
VOLUME; INFINITE DILUTION; STANDARD PRESSURE;
LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELECTROLYTES; IONS; CALCIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

D'YAKONOVA 70
SOLUTIONS/THERMODYNAMICS

TITLE- TEMPERATURE DEPENDENCE OF THE HEATS OF
DISSOLUTION OF MONOVALENT METAL SALTS IN WATER
AND IN METHANOL.

AUTHOR- D'YAKONOVA, M.E.; DRAKIN, S.I.; KARAPET'YANTS,
M.KH.

REFERENCE- TR. MOSK KHIM.-TEKHNOL. INST., NO. 67, P.
12-15(1970). REFERENCE. CHEM. ABSTR., V. 75,
ABSTR. NO. 81016H.

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
SOLUTION HEAT; MODERATE CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

ERMAKOV 70

TITLE- DIELECTRIC RELAXATION AND IONIC COMPONENT OF
THE STRUCTURE OF ELECTROLYTE SOLUTIONS. (IN
RUSSIAN).

AUTHOR- ERMAKOV, V.I.;UZBEKOV, R.A.;SHCHERBAKOV, V.V.

REFERENCE- TR. MOSK KHIM.-TEKHNOL. INST., V. 1970
(67), P. 119-122(1970). REFERENCE. CHEM.
ABSTR., V. 75, ABSTR. NO. 102508N.

303

EZROKHI 67B

TITLE- DENSITY OF COMPLEX SOLUTIONS CONTAINING
CALCIUM CHLORIDE. (IN RUSSIAN).

AUTHOR- EZROKHI, L.L.

REFERENCE- TR. VSES. NAUCHNO-ISSLED. INST. GALURGII,
V. 52, P. 10-19(1967). REFERENCE. CHEM.
ABSTR., V. 70, ABSTR. NO. 23461K.

304

EZROKHI 67

TITLE- VISCOSITY OF CALCIUM CHLORIDE SOLUTIONS.

AUTHOR- EZROKHI, L.L.

REFERENCE- TR. VSES. NAUCHNO-ISSLED. INST. GALURGII,
V. 52, P. 3-9(1967). REFERENCE. CHEM. ABSTR.,
V. 70, ABSTR. NO. 61272G.

305

FUKUDA 70

TITLE- HEATS OF SOLUTION OF SODIUM DODECYL SULFATE
AND INORGANIC SALTS DETERMINED WITH A
MICROCALORIMETER.

AUTHOR- FUKUDA, S.;KUBO, M.;FUJIE, T. [KYORITSU
PHARMACY COLLEGE, TOKYO (JAPAN)].

REFERENCE- KYORITSU YAKKA DAIGAKU KENKYU NEMPO, NO.
15, P. 1-10(1970). REFERENCE. CHEM. ABSTR., V.
75, ABSTR. NO. 11163E.

FUOSS 65
SOLUTIONS/MISC.

TITLE- THEORY OF THE CONDUCTANCE OF SYMMETRICAL
ELECTROLYTES.

AUTHOR- FUOSS, R.M. [YALE UNIV., NEW HAVEN, CONN.
(USA)].

REFERENCE- BULL. NAT. INST. SCI. INDIA, NO. 29, P.
1-18(1965). REFERENCE. CHEM. ABSTR., V.66,
ABSTR. NO. 119462E.

DESCRIPTORS- THEORETICAL TREATMENTS; GRAPHS;
ELECTRIC CONDUCTIVITY; ELECTROLYTES.

FUOSS 67
SOLUTIONS/MISC.

TITLE- ASSOCIATION OF 1-1 SALTS IN WATER.

AUTHOR- FUOSS, R.M.; HSIA, K. [YALE UNIV., NEW HAVEN,
CONN. (USA)].

REFERENCE- PROC. NAT. ACAD. SCI. USA, V. 57 (6), P.
1550-1557(1967).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; ELECTRIC
CONDUCTIVITY; ELECTROLYTES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

FURSENKO 71

TITLE- ELECTRIC CONDUCTIVITY OF AQUEOUS AND VAPOROUS
SOLUTIONS OF SODIUM CHLORIDE WITH HIGH
PARAMETERS.

AUTHOR- FURSENKO, V.F.; KUZNETSOV, N.V. [ROSTOV,
INST. INZH. ZHELEZNODOROZH. TRANSP., ROSTOV
(USSR)].

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., ENERG., V. 14
(12), P. 94-98(1971). REFERENCE. CHEM. ABSTR.,

309

FABUSS 66B
SOLUTIONS/THERMODYNAMICS

TITLE- VAPOR PRESSURES OF BINARY AQUEOUS SOLUTION OF
NACL, KCL, NA₂SO₄ AND MGSO₄ AT CONCENTRATIONS
AND TEMPERATURES OF INTEREST IN DESALINATION
PROCESSES.

AUTHOR- FABUSS, B.M.; KOROSI, A. [MONSANTO RESEARCH
CORP., EVERETT, MASS. (USA)].

REFERENCE- DESALINATION, V. 1 (2), P. 139-148(1966).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; VAPOR PRESSURE; ACTIVITY
COEFFICIENT; ISOTENSIMETERS; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; MAGNESIUM
SULFATES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; SODIUM SULFATES.

310

FABUSS 66C
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- VAPOR PRESSURES OF TERNARY AQUEOUS SOLUTIONS
OF NACL, KCL, NA₂SO₄, AND MGSO₄ AT
CONCENTRATIONS AND TEMPERATURES OF INTEREST IN
DESALINATION PROCESSES.

AUTHOR- FABUSS, B.M.; KOROSI, A. [MONSANTO RESEARCH
CORP., EVERETT, MASS. (USA)].

REFERENCE- DESALINATION, V. 1 (2), P. 149-155(1966).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
VAPOR PRESSURE; ACTIVITY COEFFICIENT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; MAGNESIUM
SULFATES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; MIXTURES.

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FABUSS 67C
SOLUTIONS/THERMODYNAMICS

TITLE- VAPOR PRESSURES OF BINARY AQUEOUS SOLUTIONS
OF NaCl, KCl, Na₂SO₄, AND MgSO₄ USED IN
DESALINATION PROCESSES.

AUTHOR- FABUSS, B.M.; KOROSI, A. [MONSANTO RESEARCH
CORP., BOSTON, MASS. (USA)].

REFERENCE- MONSANTO TECH. REV., V. 12 (2), P.
23-25(1967). REFERENCE. CHEM. ABSTR., V. 68,
ABSTR. NO. 72908D.

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; TABLES; VAPOR PRESSURE; ACTIVITY
COEFFICIENT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; SATURATED VAPOR; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; POTASSIUM
CHLORIDES; POTASSIUM SULFATES; SODIUM
CHLORIDES; SODIUM SULFATES.

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FEDORS 74
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- METHOD FOR ESTIMATING BOTH THE SOLUBILITY
PARAMETERS AND MOLAR VOLUMES OF LIQUIDS.
ADDENDUM.

AUTHOR- FEDORS, R.F. [CALIFORNIA INST. OF TECH.,
PASADENA (USA)].

REFERENCE- POLYM. ENG. SCI., V. 14 (6), P.
472(1974).

DESCRIPTORS- TABLES; MOLAL VOLUME; VAPORIZATION
HEAT; STANDARD TEMPERATURE.

313

FRANKE 73
SOLUTIONS/MISC.

TITLE- VISCOSITY OF A POTASSIUM CHLORIDE SOLUTION IN
THE PHASE TRANSFER ZONE OF A SOLUTION.

AUTHOR- FRANKE, V.D.; PUNIN, YU.O.

REFERENCE- UCH. ZAP. LENINGR. GOS. UNIV., NO. 377,
P. 138-142(1973). REFERENCE. CHEM. ABSTR., V.
81, ABSTR. NO. 141125D.

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS;
VISCOSITY; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; POTASSIUM
CHLORIDES.

314

FRANKE 73B

TITLE- VISCOSITY OF SOLUTIONS OF POTASSIUM CHLORIDE
IN THE REGION OF THE PHASE TRANSITION IN
SOLUTION.

AUTHOR- FRANKE, V.D.; PUNIN, YU.O.

REFERENCE- UCH. ZAP. LENINGR. GOS. UNIV., SER. GEOL.
NAUK, V. 14, P. 138-142(1973). REFERENCE.
CHEM. ABSTR., V. 81, ABSTR. NO. 111574G.

315

FRIEDMAN 66

TITLE- NEW THEORY OF CONDUCTANCE IN ELECTROLYTE
SOLUTIONS.

AUTHOR- FRIEDMAN, H.L. [IBM WATSON RESEARCH CENTER,
YORKTOWN HEIGHTS, N.Y. (USA)].

REFERENCE- CHEM. PHYS. IONIC SOLN., PAPERS
DISCUSSIONS INTERN. SYMP. ELECTROCHEM. SOC.,
1966, P. 487-514. REFERENCE. CHEM. ABSTR., V.
66, ABSTR. NO. 80070Y.

316

FRIEDMAN 73
SOLUTIONS/THERMODYNAMICS

TITLE- MODELS HAVING THE THERMODYNAMIC PROPERTIES OF
AQUEOUS ALKALINE EARTH HALIDES AND SODIUM
CHLORIDE-MAGNESIUM CHLORIDE MIXTURES.

AUTHOR- FRIEDMAN, H.L.; SMITHERMAN, A.; DE SANTIS, R.
[STATE UNIV. OF NEW YORK, STONY BROOK (USA).
DEPT. OF CHEMISTRY].

REFERENCE- J. SOLUTION CHEM., V. 2 (1), P.

59-81(1973). REFERENCE. CHEM. ABSTR., V. 79,
ABSTR. NO. 150086C.

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; OSMOTIC COEFFICIENT;
ELEVATED CONCENTRATION; STANDARD PRESSURE;
STANDARD TEMPERATURE; ELECTROLYTES; IONS;
MIXTURES; CALCIUM CHLORIDES; MAGNESIUM
CHLORIDES; SODIUM CHLORIDES.

317

FROLOV 68

TITLE- CALCULATION OF OSMOTIC COEFFICIENTS AND
ACTIVITY COEFFICIENTS OF IONS.

AUTHOR- FROLOV, YU.G.; NIKOLAEV, V.P.

REFERENCE- TR. MOSK KHIM.-TEKHNOL. INST., NO. 58, P.
64-67(1968). REFERENCE. CHEM. ABSTR., V. 70,
ABSTR. NO. 109652K.

318

FROLOV 73
SOLUTIONS/THERMODYNAMICS

TITLE- MIXED SOLUTIONS OF ALKALI AND ALKALINE EARTH
METAL HALIDES WITHOUT COMMON ION STUDIED BY AN
ISOPIESTIC METHOD.

AUTHOR- FROLOV, YU.G.; NIKOLAEV, V.P.

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM.
TEKHNOL., V. 16 (3), P. 369-372(1973).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT;
ISOPIESTIC MEASUREMENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; CALCIUM CHLORIDES; LITHIUM
CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; MIXTURES.

319

GABARASHVILI 74

TITLE- FREEZING POINT OF AQUEOUS SALT SOLUTIONS.

AUTHOR- GABARASHVILI, T.G.;KARTSIVADZE, A.I.

REFERENCE- TR. INST. GEOFIZ., AKAD. NAUK GRUZ. SSR,
V. 32, P. 23-26(1974). REFERENCE. CHEM.
ABSTR., V. 82, ABSTR. NO. 103839C.

320

GALINKER 67
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- SOLUBILITY OF ELECTROLYTES FOR THE
TEMPERATURE RANGE OF THE EXISTANCE OF LIQUID
AQUEOUS SOLUTION. {IN RUSSIAN}.

AUTHOR- GALINKER, I.S.;GAVRISH, M.L. [KHAR'KOV.
SEL'SKOKHOZ. INST., KHARKOV (USSR)].

REFERENCE- KHIM. TEKHNOLOG., V. 1967 (8), P.
3-14(1967). REFERENCE. CHEM. ABSTR., V. 70,
ABSTR. NO. 32044D.

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
SOLUBILITY; THERMODYNAMICS; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE;
ELECTROLYTES; CALCIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

321

GANKICHEVA 71
SOLUTIONS/THERMODYNAMICS

TITLE- NDMOGRAM OF ISOENTHALPIES OF MIXING FOR
ELECTROLYTE SOLUTION AT 25 DEGREES FOR
KCL-LICL-H2O, NAEL-LICL-H2O, BACL2-KCL-H2O, AND
MGCL2-MGSO4-H2O.

AUTHOR- GANKICHEVA, I.M.;DERYABINA, L.D.

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM.
TEKHNOLOG., V. 14, P. 1285-1287(1971).

DESCRIPTORS- GRAPHS; MIXING HEAT; HIGH
CONCENTRATION; STANDARD TEMPERATURE; BARIUM
CHLORIDES; LITHIUM CHLORIDES; MAGNESIUM
CHLORIDES; MAGNESIUM SULFATES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; MIXTURES.

322

GARDNER 69B
SOLUTIONS/THERMODYNAMICS

TITLE- OSMOTIC COEFFICIENTS OF SOME AQUEOUS SODIUM
CHLORIDE SOLUTIONS AT HIGH TEMPERATURE.

AUTHOR- GARDNER, E.R. [LEICESTER UNIV. (UK)].

REFERENCE- TRANS. FARADAY SOC., V. 65 (1), P.
91-97(1969).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; VAPOR PRESSURE;
ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT;
PARTIAL MOLAL ENTHALPY; PARTIAL MOLAL SPECIFIC
HEAT; ISOPIESTIC MEASUREMENT; ELEVATED
CONCENTRATION; SATURATED VAPOR; ELEVATED
TEMPERATURE; SODIUM CHLORIDES.

323

GIBBARD 74B

TITLE- FREEZING POINTS OF ELECTROLYTE MIXTURES. I.
MIXTURES OF SODIUM CHLORIDE AND MAGNESIUM
CHLORIDE IN WATER.

AUTHOR- GIBBARD, H.F.; GOSSMAN, A.F. [SOUTHERN
ILLINOIS UNIV., CARBONDALE (USA)].

REFERENCE- J. SOLUTION CHEM., V. 3 (5), P.
385-393(1974). REFERENCE. CHEM. ABSTR., V. 81,
ABSTR. NO. 96910T.

324

GLUECKAUF 66

TITLE- EFFECTS OF DIELECTRIC CONSTANT CHANGES IN THE
VICINITY OF IONS ON THE PROPERTIES OF
ELECTROLYTE SOLUTIONS.

AUTHOR- GLUECKAUF, E. [ATOMIC ENERGY RESEARCH
ESTABLISHMENT, HARWELL, BERKS. (UK)].

REFERENCE- CHEM. PHYS. IONIC SOLN., PAPERS
DISCUSSION INTERN. SYMP. ELECTROCHEM. SOC.,
1966, P. 67-74. REFERENCE. CHEM. ABSTR., V. 66,
ABSTR. NO. 108916E.

GLUECKAUF 68
SOLUTIONS/VOLUMETRIC

TITLE- MOLAR VOLUMES OF IONS. II..

AUTHOR- GLUECKAUF, E. [ATOMIC ENERGY RESEARCH
ESTABLISHMENT, HARWELL, BERKS. (UK)].

REFERENCE- TRANS. FARADAY SOC., V. 64 (9), P.
2423-2432(1968).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; APPARENT MOLAL
VOLUME; INFINITE DILUTION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; IONS.

GODE 70

TITLE- SOLUBILITY OF BORAX IN SODIUM CHLORIDE
SOLUTION AT 25 DEGREES. (IN RUSSIAN).

AUTHOR- GODE, H.; KLAVINA, L. [LATVIJSKII
GOSUDARSTVENNYJ UNIV., RIGA (USSR)].

REFERENCE- LATV. PSR ZINAT. AKAD. VESTIS, KIM. SER.,
V. 1970 (1), P. 116-117(1970). REFERENCE.
CHEM. ABSTR., V. 72, ABSTR. NO. 125588R.

GOLIK 67
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- STRUCTURES AND VISCOSITY OF SOME ELECTROLYTE
SOLUTIONS.

AUTHOR- GOLIK, A.Z.; DOROSH, A.K.; SKRYSHEVSKII,
A.F.; CHOLPAN, P.P.

REFERENCE- UKR. FIZ. ZH. (RUSS. ED.), V. 12 (1), P.
79-83(1967).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DENSITY; VISCOSITY; ELEVATED CONCENTRATION; LOW
TEMPERATURE; CALCIUM CHLORIDES; MAGNESIUM

CHLORIDES.

328

GORBACHEV 72

TITLE- SPECIFIC VOLUMES OF POTASSIUM CHLORIDE
AQUEOUS SOLUTIONS AT HIGH TEMPERATURES.

AUTHOR- GORBACHEV, S.V.;KONDRAT'EV, V.P.;ANDROSOV,
V.I.

REFERENCE- TR. MOSK KHIM.-TEKHNOL. INST., V. 71 P.
46-47(1972). REFERENCE. CHEM. ABSTR., V. 80,
ABSTR. NO. 125094S.

329

GORBUNOV 70
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- CORRELATION BETWEEN THERMODYNAMIC PARAMETERS
AND THE SOLUBILITY OF SALTS AND GASES IN WATER
AT INCREASED TEMPERATURES.

AUTHOR- GORBUNOV, L.V.

REFERENCE- GEOKHIMIYA, V. 1970 (1), P.
116-120(1970).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS;
THERMODYNAMICS; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE;
ELECTROLYTES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES.

330

GORDIENKO 74

TITLE- SOLUBILITY PRODUCT OF CALCIUM CARBONATE IN
SODIUM CHLORIDE AQUEOUS SOLUTIONS.

AUTHOR- GORDIENKO, V.I.;LEIBERT, B.M.;BASHIROVA,
L.KH. (UFIMSKIJ NEFTYANOJ INST., UFA (USSR)).

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM.
TEKHNOL., V. 17 (10), P. 1492-1495(1974).
REFERENCE. CHEM. ABSTR., V. 82, ABSTR. NO.

331

GORDIENKO 748

TITLE- HYDROLYSIS CONSTANTS FOR CARBONATE AND
HYDROCARBONATE IONS IN HIGHLY CONCENTRATED
SODIUM CHLORIDE AQUEOUS SOLUTIONS.

AUTHOR- GORDIENKO, V.I.; BASHIROVA, L.KH.; LEIBERT,
B.M. [UFIMSKIJ NEFTYANOJ INST., UFA (USSR)].

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM.
TEKHNOL., V. 17 (8), P. 1127-1131(1974).
REFERENCE. CHEM. ABSTR., V. 82, ABSTR. NO.
22381V.

332

GREYSON 67

TITLE- THE INFLUENCE OF THE ALKALI HALIDES ON THE
STRUCTURE OF WATER.

AUTHOR- GREYSON, J. [NORTH AMERICAN AVIATION, INC.,
CANOGA PARK, CALIF.(USA)].

REFERENCE- J. PHYS. CHEM., V. 71 (7), P.
2210-2213(1967). REFERENCE. CHEM. ABSTR., V.
67, ABSTR. NO. 47674W.

333

GUCKER 67

TITLE- THERMODYNAMIC PROPERTIES OF SOLUTIONS.

AUTHOR- GUCKER, F.T. [INDIANA UNIV., BLOOMINGTON
(USA)].

REFERENCE- THERMODYNAMIC PROPERTIES OF SOLUTIONS.
COO-504-11, U.S. AT. ENERGY COMM., 1967, 17 P..
REFERENCE. CHEM. ABSTR., V. 69, ABSTR. NO.
81109S.

334

GUROVICH 69

TITLE- DETERMINATION OF PHYSICAL PROPERTIES OF
AQUEOUS SOLUTIONS BOILING AT ATMOSPHERIC
PRESSURE. (IN RUSSIAN).

AUTHOR- GUROVICH, B.M.; MEZHERITSKII,
S.M.; POLISHCHUK, G.SH.; TAKTAEVA, L.N.

REFERENCE- TR. TASHK. POLITEKH. INST., NO. 57, P.
68-75(1969). REFERENCE. CHEM. ABSTR., V. 74,
ABSTR. NO. 34906T.

335

HAAS 71B

TITLE- THERMODYNAMIC CORRELATIONS FOR
BRINES/NaCl-H₂O LIQUID-VAPOR EQUILIBRIA (ABS).

AUTHOR- HAAS, J.L.

REFERENCE- AM. GEOPHYS. UNION, TRANS., V. 52, P.
379(1971).

336

HELMY 69

TITLE- APPARENT AND PARTIAL MOLAL VOLUMES OF CATION
SATURATED KAOLINS.

AUTHOR- HELMY, A.K.; ASSAAD, F.F.; HASSAN, M.N.; SUDEK,
H. [ALEXANDRIA UNIV. (EGYPT). FAC. AGR.].

REFERENCE- J. SOIL SCI., V. 20 (2), P.
274-277(1969). REFERENCE. CHEM. ABSTR., V. 72,
ABSTR. NO. 59538W.

337

HERDKLOTZ 70

TITLE- THERMODYNAMIC PROPERTIES OF AQUEOUS
HYDROCHLORIC ACID-SODIUM CHLORIDE-MAGNESIUM
CHLORIDE MIXTURES AS CALCULATED FROM
ELECTROMOTIVE FORCE MEASUREMENTS.

AUTHOR- HERDKLOTZ, R.J. [TENNESSEE UNIV., KNOXVILLE
(USA)].

REFERENCE- THERMODYNAMIC PROPERTIES OF AQUEOUS
HYDROCHLORIC ACID-SODIUM CHLORIDE-MAGNESIUM
CHLORIDE MIXTURES AS CALCULATED FROM
ELECTROMOTIVE FORCE MEASUREMENTS. THESIS,
1970, 218 P.. REFERENCE. CHEM. ABSTR., V. 75,
ABSTR. NO. 101882T.

338

HOFFMANN 69

TITLE- KINETICS OF SOLUTION OF CARNALLITE WITH
SPECIAL REFERENCE TO THE PUMPING OF FRESH WATER
INTO MINERAL SALT DEPOSITS. II.. [IN GERMAN].

AUTHOR- HOFFMANN, H.; EMONS, H.H.
[KALIFORSCHUNGS-INST., SONDERHAUSEN (F.R.
GERMANY)].

REFERENCE- BERGAKADEMIE, V. 21 (9), P.
554-558(1969). REFERENCE. CHEM. ABSTR., V. 72,
ABSTR. NO. 36262N.

339

HOLECKOVA 68

TITLE- EFFECT OF FOREIGN IONS ON THE SOLUBILITY OF
SALTS.

AUTHOR- HOLECKOVA, H. [INST. OF CHEMICAL TECHNOLOGY,
PRAGUE (CZ)].

REFERENCE- SB. VYS. SK. CHEM.-TECHNOL. PRAZE,
MINERAL., V. 10, P. 81-95(1968). REFERENCE.
CHEM. ABSTR., V. 71, ABSTR. NO. 117006P.

340

HORNE 66

TITLE- ARRHENIUS ACTIVATION ENERGY OF ELECTRICAL
CONDUCTANCE IN H₂O AND D₂O.

AUTHOR- HORNE, R.A.; JOHNSON, D.S. [ARTHUR D. LITTLE,
INC., CAMBRIDGE, MASS. (USA)].

REFERENCE- U.S. GOVT. RES. DEVELOP. RPT., V. 41 (2),
P. 20(1966). REFERENCE. CHEM. ABSTR., V. 66,
ABSTR. NO. 108919H.

341

HORNE 67C
SOLUTIONS/MISC.

TITLE- THE EFFECT OF ELECTROLYTE ADDITION ON THE
VISCOSITY OF WATER UNDER PRESSURE.

AUTHOR- HORNE, R.A.; JOHNSON, D.S. [ARTHUR D. LITTLE,
INC., CAMBRIDGE, MASS. (USA)].

REFERENCE- J. PHYS. CHEM., V. 71 (4), P.
1147-1149(1967).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; VISCOSITY; HIGH
CONCENTRATION; ELEVATED PRESSURE; HIGH
PRESSURE; LOW TEMPERATURE; SEA WATER; SODIUM
CHLORIDES.

342

HURTADO 73
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- DIFFUSION AND VISCOSITY IN AQUEOUS MEDIA.
BEHAVIOR OF CALCIUM (II) AND CERIUM (III) IONS
AND THEIR COMPLEXES WITH EDTA AND DCTA (1,
2-DIAMINOCYCLOHEXANETETRAACETIC ACID).

AUTHOR- HURTADO, G.G.; MATEO, P.L.; SERNA,
A.; VIDAL-ABARCA, J.B.

REFERENCE- AN. QUIM., V. 69, P. 295-303(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; DENSITY; DIFFUSION; VISCOSITY;
LOW CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; CALCIUM CHLORIDES.

343

HWANG 70
SOLUTIONS/MISC.

TITLE- ELECTRICAL CONDUCTIVITY OF CONCENTRATED
AQUEOUS SOLUTIONS OF ALKALI HALIDES AT HIGH
PRESSURES AND TEMPERATURES. (IN GERMAN). DIE
ELEKTRISCHE LEITFAHIGKEIT KONZENTRIERTER
WASSRIGER ALKALIHALOGENIDLOSUNGEN BEI HOHEN
DRUCKEN UND TEMPERATUREN.

AUTHOR- HWANG, J.U.;LUEDEMANN, H.D.;HARTMANN, D.

REFERENCE- HIGH-TEMP.-HIGH PRESSURES, V. 2 (6), P.
651-669(1970).

DESCRIPTORS- DENSITY; ELECTRIC CONDUCTIVITY;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
ELEVATED PRESSURE; HIGH PRESSURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; HIGH TEMPERATURE; CESIUM
CHLORIDES; LITHIUM BROMIDES; LITHIUM CHLORIDES;
POTASSIUM CHLORIDES; EXPERIMENTAL RESULTS.

344

IGUCHI 69

TITLE- APPARENT MOLAR VOLUMES OF ELECTROLYTES.

AUTHOR- IGUCHI, A.

REFERENCE- KAGAKU SOCHI (TOKYO), V. 11 (2), P.
58-59(1969). REFERENCE. CHEM. ABSTR., V. 70,
ABSTR. NO. 118702D.

345

IVANOV 72

TITLE- STRUCTURE OF AQUEOUS SOLUTIONS OF CALCIUM
CHLORIDE.

AUTHOR- IVANOV, B.D.;TSAREV, V.P.;CHEMAKIN, N.M.

REFERENCE- NAUCHNO-TEKH. PROGRESS FIZ.-TEKL. PROBL.
SEVERA, P. 153-154(1972). REFERENCE. CHEM.
ABSTR., V. 79, ABSTR. NO. 108637H.

346

IVANOVA 62

TITLE- REGULAR VARIATIONS IN VISCOSITY AS A RESULT
OF MIXING OF IDEAL LIQUIDS. (IN RUSSIAN).

AUTHOR- IVANOVA, F.I.

REFERENCE- SB. ASPIR. RAB., KANZAN. GOS. UNIV.,
ESTESTV. NAUKI, V. 1962, P. 3-12(1962).
REFERENCE. CHEM. ABSTR., V. 60, ABSTR. NO.
13906E.

347

JAHK 66
SOLUTIONS/MISC.

TITLE- INTERFEROMETRIC DETERMINATION OF IONIC
DIFFUSION COEFFICIENTS. (IN GERMAN).
BESTIMMUNG DER DIFFUSIONSKOEFFIZIENTEN VON
IONEN NACH EINEM INTERFEROMETRISCHEN VERFAHREN.

AUTHOR- JAHK, K.F.;KUDELKA, H.;SIMON, J. [FREIE
UNIV. BERLIN (F.R. GERMANY). INST. FUER
ANORGANISCHE CHEMIE].

REFERENCE- Z. NATURFORSCH., V. B 21 (12), P.
1122-1124(1966).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
DIFFUSION; ELEVATED CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; POTASSIUM
CHLORIDES.

348

JAKLI 75

TITLE- EQUILIBRIUM ISOTOPE EFFECTS IN AQUEOUS
SYSTEMS. IV. VAPOR PRESSURES OF SODIUM BROMIDE,
IODIDE, SULFATE, POTASSIUM FLUORIDE, AND
CALCIUM CHLORIDE SOLUTIONS IN WATER AND
WATER-D2 (0 TO 90 DEG.). VAPOR PRESSURES OF
SODIUM SULFATE DECAHYDRATE, CALCIUM CHLORIDE
DIHYDRATE, AND DEUTERATED HYDRATES.

AUTHOR- JAKLI, G.;CHAN, T.C.;VAN HOOK, W.A.
[TENNESSEE UNIV., KNOXVILLE (USA). DEPT. OF
CHEMISTRY].

REFERENCE- J. SOLUTION CHEM., V. 4 (1), P.
71-90(1975). REFERENCE. CHEM. ABSTR., V. 82,
ABSTR. NO. 116963P.

JONES 74
SOLUTIONS/THERMODYNAMICS

TITLE- EXCESS GIBBS ENERGIES OF AQUEOUS MIXTURES OF
SODIUM CHLORIDE, POTASSIUM CHLORIDE, SODIUM
ACETATE, AND POTASSIUM ACETATE AT 25 DEGREES.

AUTHOR- JONES, R.A. [PORT SUNLIGHT, WIRRAL, CHESHIRE
(UK). UNILEVER RESEARCH LABORATORY].

PRUE, J.E. [READING UNIV. (UK). DEPT. OF
CHEMISTRY].

REFERENCE- J. SOLUTION CHEM., V. 3 (8), P.
585-592(1974).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; TABLES; FREE ENERGY; OSMOTIC
COEFFICIENT; HIGH CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; ELECTROLYTES;
MIXTURES; POTASSIUM CHLORIDES; SODIUM ACETATES;
SODIUM CHLORIDES.

KARAPET'YANTS 69

TITLE- HEAT CAPACITIES OF AQUEOUS SOLUTION OF
CALCIUM AND STRONTIUM CHLORIDE AT 25 DEGREES.

AUTHOR- KARAPET'YANTS, M.KH.;VASILEV,
V.A.;FEDYAINOV, N.V.

REFERENCE- TR. MOSK KHIM.-TEKHNOL. INST., NO. 62, P.
70-72(1969). REFERENCE. CHEM. ABSTR., V. 73,
ABSTR. NO. 81423X.

KARAPET'YANTS 69B

TITLE- COMPARATIVE STUDY OF THE SPECIFIC HEATS AND
DENSITIES OF AQUEOUS SOLUTIONS OF CHLORIDES OF
BERYLLIUM SUBGROUP ELEMENTS.

AUTHOR- KARAPET'YANTS, M.KH.;VASILEV,
V.A.;FEDYAINOV, N.V.

REFERENCE- TR. MOSK KHIM.-TEKHNOL. INST., NO. 62, P.
67-70(1969). REFERENCE. CHEM. ABSTR., V. 73,

352

KENNEDY 72

TITLE- VOLUMETRIC PROPERTIES OF DEUTERIUM OXIDE SOLUTIONS OF SELECTED ALKALI HALIDES AND OF DEUTERIUM CHLORIDE.

AUTHOR- KENNEDY, J.V. [PITTSBURGH UNIV., PA. (USA)].

REFERENCE- VOLUMETRIC PROPERTIES OF DEUTERIUM OXIDE SOLUTIONS OF SELECTED ALKALI HALIDES AND OF DEUTERIUM CHLORIDE. THESIS, 1972, REFERENCE. CHEM. ABSTR., V. 78, ABSTR. NO. 128700F.

353

KESTER 68

TITLE- MAGNESIUM SULFATE ASSOCIATION AT 25 DEGREES IN SYNTHETIC SEA WATER.

AUTHOR- KESTER, D.R.;PYTKOWICZ, R.M. [OREGON STATE UNIV., CORVALLIS (USA)].

REFERENCE- LIMNOL. OCEANOGR., V. 13 (4), P. 670-674(1968). REFERENCE. CHEM. ABSTR., V. 70, ABSTR. NO. 91289K.

354

KHAIBULLIN 68
SOLUTIONS/THERMODYNAMICS

TITLE- PHASE ENTROPY DIAGRAM OF A TWO COMPONENT SODIUM CHLORIDE-H₂O SYSTEM. (IN RUSSIAN).

AUTHOR- KHAIBULLIN, I.KH.;BORISOV, N.M.

REFERENCE- TEPLOFIZ. VYS. TEMP., V. 6 (2), P. 242-247(1968).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES; ENTROPY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; SATURATED VAPOR; ELEVATED TEMPERATURE; HIGH TEMPERATURE; SODIUM CHLORIDES.

KHAIBULLIN 70

TITLE- USE OF A METHOD OF COMPARATIVE CALCULATION OF
SALT SOLUTIONS AT HIGH PARAMETERS. (IN
RUSSIAN).

AUTHOR- KHAIBULLIN, I.KH.;BORISOV, N.M. [ENERG.
INST. KRZHIZHANOVSKOGO, MOSCOW (USSR)].

REFERENCE- TERMODIN. TERMOKHIM. KONSTANTY, P.
16-21(1970). REFERENCE. CHEM. ABSTR., V. 74,
ABSTR. NO. 15893V.

KHUBETSOV 73

TITLE- USE OF THE CHARACTERISTIC-CURVES METHOD TO
DETERMINE ELECTRICAL CHARACTERISTICS OF
CONCENTRATED ELECTROLYTE SOLUTIONS.

AUTHOR- KHUBETSOV, S.B.;ERMAKOV, V.I.;SHCHERBAKOV,
V.V.

REFERENCE- TR. MOSK KHIM.-TEKHNOL. INST., V. 75, P.
89-91(1973). REFERENCE. CHEM. ABSTR., V. 81,
ABSTR. NO. 111945D.

KIRSTEIN 71
SOLUTIONS/MISC.

TITLE- CROSS COEFFICIENTS FOR DIFFUSION IN THE
TERNARY SYSTEM SODIUM CHLORIDE-CALCIUM
CHLORIDE-WATER BY RADIOACTIVE TRACERS. (IN
GERMAN).

AUTHOR- KIRSTEIN, D.;KAHRIG, E.;ERPENBECK,
J.;DREYER, G. [DEUTSCHEN AKADEMIE DER
WISSENSCHAFTEN ZU BERLIN (GERMAN DEMOCRATIC
REPUBLIC). INST. FUER BIOPHYSIK].

REFERENCE- STUD. BIOPHYS., V. 26 (1), P.
57-64(1971). REFERENCE. CHEM. ABSTR., V. 75,
ABSTR. NO. 91425E.

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
DIFFUSIVITY; DIFFUSION; ELEVATED CONCENTRATION;

358

KLOPOV 74
SOLUTIONS/THERMODYNAMICS

TITLE- SPECIFIC HEAT OF POTASSIUM CHLORIDE SOLUTIONS
IN WATER AND A 30 PER CENT AQUEOUS ISOPROPYL
ALCOHOL SOLUTION AT 25 DEGREES.

AUTHOR- KLOPOV, V.I.; KOLKER, A.M.; KRESTOV, G.A.
[IVANOVSKIY KHIMIKO-TEKHNOLOGICHESKIY INST.
(USSR)].

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM.
TEKHNOL., V. 17 (1), P. 32-34(1974).
REFERENCE. CHEM. ABSTR., V. 80, ABSTR. NO.
113300T.

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; SPECIFIC
HEAT; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; NONAQUEOUS SOLUTIONS; POTASSIUM
CHLORIDES; WATER.

359

KOLOSOV 71

TITLE- POTASSIUM CHLORIDE-IRON (II) CHLORIDE-WATER
SYSTEM AT 0 DEGREES. (IN RUSSIAN).

AUTHOR- KOLOSOV, A.S.; NOVIK, V.F.; CHUPRAKOVA, T.V.
[AN SSSR, NOVOSIBIRSK. INST.
FIZIKO-KHIMICHESKIKH OSNOR PERERABOTKI
MINERAL'NOGO SYR'YA].

REFERENCE- IZV. SIB. OTD. AKAD. NAUK SSSR, SER.
KHIM. NAUK, V. 1971 (2), P. 24-28(1971).
REFERENCE. CHEM. ABSTR., V. 76, ABSTR. NO.
104428F.

360

KOKOVINA 70B

TITLE- SHORT-RANGE HYDRATION OF SINGLY CHARGED
CATIONS AND DIELECTRIC PROPERTIES OF AQUEOUS
SOLUTIONS OF ALKALI METAL CHLORIDES.

AUTHOR- KOKOVINA, G.V.

REFERENCE- UCH. ZAP. VOLOGOD. PEDAGOG. INST., NO.
29, P. 131-137(1970). REFERENCE. CHEM. ABSTR.,
V. 76, ABSTR. NO. 38037Z.

361

KOR 71

TITLE- ULTRASONIC ABSORPTION IN WATER-D2 IN THE
PRESENCE OF UNIVALENT IONS.

AUTHOR- KOR, S.K.; AWASTHI, O.N.; RAI, G. [ALLAHABAD
UNIV. (INDIA). DEPT. OF PHYSICS].

REFERENCE- INDIAN J. PURE APPL. PHYS., V. 9 (5), P.
312-313. REFERENCE. CHEM. ABSTR., V. 75,
ABSTR. NO. 67738P.

362

KOSTYUK 72
SOLUTIONS/THERMODYNAMICS

TITLE- A SENSITIVE ADIABATIC CALORIMETER WITH
GERMONIUM RESISTANCE THERMOMETERS AND
SEMICONDUCTOR THERMOCOUPLES FOR THE MEASUREMENT
OF HEAT CHANGES IN SOLUTION.

AUTHOR- KOSTYUK, B.G.; VOROB'EV, A.F. [LOMONOSOV
MOSCOW STATE UNIV. (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 46 (9), P.
2443-2447(1972).

DESCRIPTORS- EXPERIMENTAL RESULTS; TABLES; SPECIFIC
HEAT; MEASURING INSTRUMENTS; CALORIMETERS; LOW
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; POTASSIUM CHLORIDES.

363

KRAEFT 66
SOLUTIONS/MISC.

TITLE- THEORY OF VISCOSITY OF STRONG ELECTROLYTES.

AUTHOR- KRAEFT, W.D.

REFERENCE- Z. PHYS. CHEM., V. 233 (3-4), P.
266-276(1966).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; VISCOSITY; STANDARD
TEMPERATURE; POTASSIUM CHLORIDES; SODIUM
CHLORIDES.

364

KREMLING 71
SOLUTIONS/VOLUMETRIC

TITLE- METHOD FOR MEASURING DENSITY OF SEA WATER.

AUTHOR- KREMLING, K. [KIEL UNIV. (F.R. GERMANY).
INST. FOR MARINE RESEARCH].

REFERENCE- NATURE (LONDON), V. 229, P.
109-110(1971).

DESCRIPTORS- GRAPHS; DENSITY; MEASURING INSTRUMENTS;
HIGH CONCENTRATION; STANDARD PRESSURE; SEA

365

KRESTOV 69
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMICS OF THE HYDRATION OF IONS AT
VARIOUS TEMPERATURES. (IN RUSSIAN).

AUTHOR- KRESTOV, G.A.; ABROSIMOV, V.K.

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM.
TEKHNOL., V. 12 (2), P. 127-133(1969).

DESCRIPTORS- REVIEWS; GRAPHS; TABLES;
THERMODYNAMICS; ENTHALPY; ENTROPY; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELECTROLYTES; IONS; LITHIUM
CHLORIDES; POTASSIUM BROMIDES; SODIUM CHLORIDES.

366

KRUMGAL'Z 71
SOLUTIONS/VOLUMETRIC

TITLE- EFFECT OF THE STATE OF THE SOLUTE ON THE

COEFFICIENT OF THERMAL EXPANSION OF THE
SOLUTION. (IN RUSSIAN).

AUTHOR- KRUMGAL'Z, B.S.;MISHENKO, K.P.;TSVEMKOVA,

REFERENCE- ZH. OBSHCH. KHIM., V. 41 (8), P.
1653-1656(1971).

DESCRIPTORS- GRAPHS; THERMAL EXPANSIVITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE; LITHIUM
BROMIDES; SODIUM BROMIDES; SODIUM CHLORIDES;
SODIUM IODIDES; ELEVATED TEMPERATURE; POTASSIUM
HYDROXIDES; SODIUM HYDROXIDES.

367

KRUNCHAK 73

TITLE- ELECTRIC CONDUCTIVITY OF THE WATER-SODIUM
CHLORIDE-CALCIUM SULFATE AND WATER-SODIUM
CHLORIDE-POTASSIUM BROMIDE-POTASSIUM IODIDE
SYSTEMS AT 0-40 DEGREES.

AUTHOR- KRUNCHAK, E.G.;KRUMGAL'Z,
B.S.;STAROZHITSKII, P.YA.;POSPELOV,
A.B.;YUSOVA, YU.I.

REFERENCE- TR. SEV.-ZAPADN. ZAOCHN. POLITEKH. INST.,
NO. 21, P. 21-24(1973). REFERENCE. CHEM.
ABSTR., V. 80, ABSTR. NO. 41568M.

368

KUKA 69

TITLE- EFFECT OF POTASSIUM CHLORIDE ON THE
SOLUBILITY OF POTASSIUM BORATES.

AUTHOR- KUKA, P.;GODE, H. [LATVIJSKII
GOSUDARSTVENNYJ UNIV., RIGA (USSR)].

REFERENCE- LATV. PSR ZINAT. AKAD. VESTIS, KIM. SER.,
V. 1969 (1), P. 125-126(1969). REFERENCE.
CHEM. ABSTR., V. 70, ABSTR. NO. 109577Q.

369

KUZNETSOV 72
SOLUTIONS/VOLUMETRIC

TITLE- PROPERTIES OF ALKALI METAL CHLORIDE SOLUTIONS.

AUTHOR- KUZNETSOV, S.I.;VAULIN, L.V.;YASHINA, G.M.

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., TSVETN. METALL., V. 15 (3), P. 104-110(1972).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES; DENSITY; ELECTRIC CONDUCTIVITY; VISCOSITY; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; LOW TEMPERATURE; MODERATE TEMPERATURE; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES; NONAQUEOUS SOLUTIONS.

370

LAKSHMANAN 70
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENTS IN MIXED ELECTROLYTES/GUGGENHEIM'S RELATION.

AUTHOR- LAKSHMANAN, S.;RANGARAJAN, S.K. [CENTRAL ELECTROCHEMICAL RESEARCH INST., KARAIKUDI (INDIA)].

REFERENCE- J. ELECTROANAL. CHEM. INTERFACIAL ELECTROCHEM., V. 27, P. 170-174(1970).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS; EMPIRICAL EQUATIONS; TABLES; ACTIVITY COEFFICIENT; HIGH CONCENTRATION; ELECTROLYTES; MIXTURES; CALCIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

371

LARIONOV 73

TITLE- LIMITING EQUIVALENT ELECTRICAL CONDUCTANCE OF POTASSIUM CHLORIDE AT UP TO 150 DEGREES AND 8000 KG/CM².

AUTHOR- LARIONOV, E.G.;KRYUKOV, P.A. [AN SSSR, NOVOSIBIRSK. INST. NEORGANICHESKOJ KHIMII].

REFERENCE- IZV. SIB. OTD. AKAD. NAUK SSSR. SER. KHIM. NAUK, V. 3, P. 104-111(1973). REFERENCE. CHEM. ABSTR., V. 79, ABSTR. NO. 119020C.

LANIER 68

TITLE- EMF. METHODS FOR THE MEASUREMENT OF
ACTIVITIES OF SALTS.

AUTHOR- LANIER, R.D.; JOHNSON, J.S.

REFERENCE- EMF. METHODS FOR THE MEASUREMENT OF
ACTIVITIES OF SALTS. NO. 302, U.S. OFF. SALINE
WATER, RES. DEV. PROG. REP., 1968, P. 15-17.
REFERENCE. CHEM. ABSTR., V. 69, ABSTR. NO.
100165A.

LEE 73B

TITLE- THERMAL ANOMALY IN THE TEMPERATURE DEPENDENCE
OF THE ENERGY-VOLUME COEFFICIENT OF AQUEOUS
POTASSIUM CHLORIDE SOLUTIONS.

AUTHOR- LEE, I.; HYNE, J.B. [NATL. UNIV., SEOUL
(REPUBLIC OF KOREA). COLL. ENG.].

REFERENCE- SEOUL NAT. UNIV. FAC. PAP., SCI. TECHNOL.
SER., V. 2, P.17-20(1973). REFERENCE. CHEM.
ABSTR., V. 80, ABSTR. NO. 74958S.

LESKOVSEK 70
SOLUTIONS/THERMODYNAMICS

TITLE- EQUATIONS FOR ACTIVITY AND OSMOTIC
COEFFICIENTS OF SODIUM AND POTASSIUM CHLORIDE
IN AQUEOUS SOLUTIONS AT 25 DEGREES.

AUTHOR- LESKOVSEK, D [LJUBLJANA UNIV. (YUGOSLAVIA).
DEPT. OF CHEMISTRY].

REFERENCE- VESTN. SOLV. KEM. DRUS., V. 17 (1-4), P.
41-45(1970). REFERENCE. CHEM. ABSTR., V. 74,
ABSTR. NO. 103762G.

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ACTIVITY
COEFFICIENT; OSMOTIC COEFFICIENT; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; POTASSIUM CHLORIDES; SODIUM

CHLORIDES.

375

LIKHODED 73

TITLE- DENSITY AND VISCOSITY OF ALUMINUM AND
POTASSIUM SULFATE SOLUTIONS. (IN RUSSIAN).

AUTHOR- LIKHODED, A.D.; ZAPOL'SKII, A.K.; SAZHIN, V.S.
[INST. OBSHCH. NEORG. KHIM., KIEV (USSR)].

REFERENCE- KHIM. TEKHNOL. (KIEV), V. 1973 (2), P.
55-57(1973). REFERENCE. CHEM. ABSTR., V. 79,
ABSTR. NO. 70429B.

376

LILICH 68

TITLE- ELECTROLYTE SOLUTIONS STUDIED BY THE SPIN
ECHO METHOD. (IN RUSSIAN).

AUTHOR- LILICH, L.S.; KHRIPUN, M.K.; CHIZHIK, V.I.

REFERENCE- YAD. MAGN. REZON., LENINGR. GOS. UNIV.,
NO. 2, P. 105-111(1968). REFERENCE. CHEM.
ABSTR., V. 70, ABSTR. NO. 52885G.

377

LIU 71

TITLE- THERMODYNAMIC PROPERTIES OF AQUEOUS SOLUTIONS
AT HIGH TEMPERATURES.

AUTHOR- LIU, C.-T.; LINDSAY, W.T. [WESTINGHOUSE
ELECTRIC CORP., PITTSBURGH, PA. (USA)].

REFERENCE- THERMODYNAMIC PROPERTIES OF AQUEOUS
SOLUTIONS AT HIGH TEMPERATURES. NO. 722, U.S.
OFF. SALINE WATER, RES. DEV. PROG. REP., 1971,
124 P.. REFERENCE. CHEM. ABSTR., V. 76, ABSTR.
NO. 104700P.

378

LOSEVA 72

TITLE- SPECIFIC HEATS OF AQUEOUS SODIUM CHLORIDE AND PERCHLORATE SOLUTIONS.

AUTHOR- LOSEVA, G.K. [NOVOCHERKASSKIJ POLITEKHNICHESKIJ INST. (USSR)].

REFERENCE- REF. ZH., KHIM., NO. 266, P. 82-85(1972).
REFERENCE. CHEM. ABSTR., V. 78, ABSTR. NO. 63169T.

379

LUETTGEN 71

TITLE- FREEZING POINT LOWERING OR CRYOSCOPY.

AUTHOR- LUETTGEN, W.

REFERENCE- APOTHEKERPRAKT. PHARM.-TECH. ASSIST., V. 17 (12), P. 89-93(1971). REFERENCE. CHEM. ABSTR., V. 76, ABSTR. NO. 132093M.

380

LUKASHOV 70
SOLUTIONS/MISC.

TITLE- ELECTRIC CONDUCTIVITY OF VAPOR SOLUTIONS OF LITHIUM AND SODIUM CHLORIDES.

AUTHOR- LUKASHOV, YU.M.

REFERENCE- TEPLOENERGETIKA, V. 17 (8), P. 84-85(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES; ELECTRIC CONDUCTIVITY; LITHIUM CHLORIDES; SODIUM CHLORIDES.

381

MAJIMA 72

TITLE- NATURAL GAS BRINE. V. EQUILIBRIUM OF THE TERNARY SYSTEM POTASSIUM CHLORIDE-MAGNESIUM CHLORIDE-WATER, AND THE QUATERNARY SYSTEMS SODIUM CHLORIDE-POTASSIUM CHLORIDE-MAGNESIUM

CHLORIDE-WATER AND POTASSIUM CHLORIDE-MAGNESIUM
CHLORIDE-CALCIUM CHLORIDE-WATER.

AUTHOR- MAJIMA, K.;KATSUKI, K.;TEJIMA, M.;OKA, S.
[TOHO UNIV., CHIBA (JAPAN)].

REFERENCE- NIPPON KAISUI GAKKAI-SHI, V. 26 (142), P.
199-204(1972). REFERENCE. CHEM. ABSTR., V. 82,
ABSTR. NO. 160888S.

382

MAJIMA 72B

TITLE- NATURAL GAS BRINE. VI. EQUILIBRIUM IN THE
QUINARY SYSTEM SODIUM CHLORIDE-POTASSIUM
CHLORIDE-MAGNESIUM CHLORIDE-CALCIUM
CHLORIDE-WATER AT 50 DEGREES.

AUTHOR- MAJIMA, K.;KATSUKI, K.;TEJIMA, M.;OKA, S.
[TOHO UNIV., CHIBA (JAPAN)].

REFERENCE- NIPPON KAISUI GAKKAI-SHI, V. 26 (142), P.
205-209(1972). REFERENCE. CHEM. ABSTR., V. 82,
ABSTR. NO. 160889T.

383

MAJIMA 73
SOLUTIONS/MISC.

TITLE- NATURAL GAS BRINE. VII. EQUILIBRIUMS IN THE
TERNARY SYSTEM SODIUM CHLORIDE-MAGNESIUM
CHLORIDE-WATER AND SODIUM CHLORIDE-CALCIUM
CHLORIDE-WATER, AND THE QUATERNARY SYSTEM
SODIUM CHLORIDE-MAGNESIUM CHLORIDE-CALCIUM
CHLORIDE-WATER AT 75 DEGREES.

AUTHOR- MAJIMA, K.;KATSUKI, K.;TEJIMA, M.;OKA, S.
[TOYO UNIV., KAWAGOE (JAPAN)].

REFERENCE- NIPPON KAISUI GAKKAI-SHI, V. 27 (147), P.
164-170(1973). REFERENCE. CHEM. ABSTR., V. 82,
ABSTR. NO. 160890M.

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; PHASE DIAGRAMS;
SOLUBILITY; HIGH CONCENTRATION; STANDARD
PRESSURE; ELEVATED TEMPERATURE; MIXTURES;
CALCIUM CHLORIDES; MAGNESIUM CHLORIDES; SODIUM
CHLORIDES.

MAJIMA 74
SOLUTIONS/MISC.

TITLE- NATURAL GAS BRINE. VIII. EQUILIBRIUM IN THE QUATERNARY SYSTEMS SODIUM CHLORIDE-POTASSIUM CHLORIDE-MAGNESIUM CHLORIDE-WATER AND SODIUM CHLORIDE-POTASSIUM CHLORIDE-CALCIUM CHLORIDE-WATER AT 75 DEGREES.

AUTHOR- MAJIMA, K.;KATSUKI, K.;TEJIMA, M.;OKA, S.
[TOHO UNIV., CHIBA (JAPAN)].

REFERENCE- NIPPON KAISUI GAKKAI-SHI, V. 27 (150), P. 315-320(1974). REFERENCE. CHEM. ABSTR., V. 82, ABSTR. NO. 160892P.

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; PHASE DIAGRAMS; SOLUBILITY; HIGH CONCENTRATION; STANDARD PRESSURE; ELEVATED TEMPERATURE; MIXTURES; CALCIUM CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

MAJIMA 74B

TITLE- NATURAL GAS BRINE. IX. EQUILIBRIUM IN THE QUINARY SYSTEM SODIUM CHLORIDE-POTASSIUM CHLORIDE-MAGNESIUM CHLORIDE-WATER AT 75 DEGREES.

AUTHOR- MAJIMA, K.;KATSUKI, K.;TEJIMA, M.;OKA, S.
[TOHO UNIV., CHIBA (JAPAN)].

REFERENCE- NIPPON KAISUI GAKKAI-SHI, V. 27 (150), P. 321-326(1974). REFERENCE. CHEM. ABSTR., V. 82, ABSTR. NO. 160891N.

MAKINSKII 70

TITLE- SOLUBILITY OF CALCIUM SULFATE IN SEA WATER AND HIGHLY SALINATED SOLUTIONS. (IN RUSSIAN).

AUTHOR- MAKINSKII, I.Z.;SHISHCHENKO, V.V.;GEIVANDOV, I.A.

REFERENCE- OPYT. EXPLUAT TEPLOSILOVOGO OBORUD. SIST.

AZGLAVENERGO, V. 1970, P. 59-69(1970).
REFERENCE. CHEM. ABSTR., V. 75, ABSTR. NO.
112700H.

387

MALININ 69

TITLE- APPLICATION OF THE THEORY OF STRONG
ELECTROLYTES TO BARITE SOLUBILITY IN AQUEOUS
SOLUTIONS OF METAL CHLORIDES UNDER HYDROTHERMAL
CONDITIONS. (IN RUSSIAN).

AUTHOR- MALININ, S.D.;UCHAMEISHVILI, N.E.;KHITAROV,
N.I. [V.I. VERNADSKII INST., MOSCOW (USSR).
GEOCHEM. ANAL. CHEM.].

REFERENCE- GEOKHIMIYA, V. 1969 (8), P.
927-938(1969). REFERENCE. CHEM. ABSTR., V. 71,
ABSTR. NO. 85102Y.

388

MALININ 71

TITLE- CALCITE SOLUBILITY IN HOMOGENEOUS
WATER-SODIUM CHLORIDE-CARBON DIOXIDE SYSTEMS AT
200-600 DEGREES. (IN RUSSIAN).

AUTHOR- MALININ, S.D.;KANUKOV, A.B. [V.I. VERNADSKII
INST., MOSCOW (USSR). GEOCHEM. ANAL. CHEM.].

REFERENCE- GEOKHIMIYA, V. 1971 (9), P.
1067-1079(1971). REFERENCE. CHEM. ABSTR., V.
75, ABSTR. NO. 133502K.

389

MARSHALL 68
SOLUTIONS/MISC.

TITLE- AQUEOUS SYSTEMS AT HIGH TEMPERATURE.
SOLUBILITY TO 200 DEGREES OF CALCIUM SULFATE
AND ITS HYDRATES IN SEA WATER AND SALINE WATER
CONCENTRATES, AND TEMPERATURE-CONCENTRATION
LIMITS.

AUTHOR- MARSHALL, W.L.;SLUSHER, R. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 13 (1), P.
83-93(1968).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; SOLUBILITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; MIXTURES; SEA WATER; CALCIUM
SULFATES; SODIUM CHLORIDES.

390

MARWEDEL 67

TITLE- TEMPERATURE AND CONCENTRATION FUNCTIONS OF
VISCOSITY.

AUTHOR- MARWEDEL, G.

REFERENCE- FARBE + LACK, V. 73 (3), P.
219-229(1967). REFERENCE. CHEM. ABSTR., V. 67,
ABSTR. NO. 94227N.

391

MASHOVETS 73B

TITLE- SATURATED VAPOR PRESSURE OF SODIUM CHLORIDE,
SODIUM BROMIDE, AND SODIUM IODIDE AQUEOUS
SOLUTIONS AT 150-350 DEGREES.

AUTHOR- MASHOVETS, V.P.; ZAREMBO, V.I.; FEDOROV, M.K.

REFERENCE- ZH. PRIKL. KHIM. (LENINGRAD), V. 46 (3),
P. 650-652(1973).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
VAPOR PRESSURE; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; MODERATE PRESSURE; ELEVATED
TEMPERATURE; SODIUM BROMIDES; SODIUM CHLORIDES;
SODIUM IODIDES.

392

MATHIESON 74
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL MOLAL COMPRESSIBILITY OF SALTS IN
AQUEOUS SOLUTION AND ASSIGNMENT OF IONIC
CONTRIBUTIONS.

AUTHOR- MATHIESON, J.G.; CONWAY, B.E. [OTTAWA UNIV.,
ONTARIO (CANADA). DEPT. OF CHEMISTRY].

REFERENCE- J. SOLUTION CHEM., V. 3 (6), P.
455-477(1974).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; COMPRESSIBILITY;
VELOCITY OF SOUND; INFINITE DILUTION; STANDARD
PRESSURE; STANDARD TEMPERATURE; ELECTROLYTES;
IONS; CESIUM CHLORIDES; HYDROCHLORIC ACID;
POTASSIUM BROMIDES; POTASSIUM CHLORIDES;
POTASSIUM SULFATES; SODIUM BROMIDES; SODIUM
CHLORIDES.

393

MATSUBARA 73B

TITLE- TRANSFERENCE NUMBER OF POTASSIUM IONS IN AN
AQUEOUS SOLUTION UNDER PRESSURE.

AUTHOR- MATSUBARA, Y.; SHIMIZU, K.; OSUGI, J. [KYOTO
UNIV. (JAPAN). FACULTY OF SCIENCE].

REFERENCE- NIPPON KAGAKU KAISHI, V. 10, P.
1817-1822(1973). REFERENCE. CHEM. ABSTR., V.
79, ABSTR. NO. 150071U.

394

MATSUSHITA 68

TITLE- PROPOSAL ON A STANDARD OF PNA VALUES.

AUTHOR- MATSUSHITA, H.; FURUTA, S. [CHUBU INST.
TECHNOL., NAGOYA (JAPAN)].

REFERENCE- CHUBU KOGYO DAIGAKU KIYO, V. 4, P.
121-127(1968). REFERENCE. CHEM. ABSTR., V. 70,
ABSTR. NO. 118659V.

395

MIKULIN 68

TITLE- MUTUAL RECALCULATION OF ACTIVITY COEFFICIENTS
AND OSMOTIC COEFFICIENTS OF ELECTROLYTE
SOLUTIONS. (IN RUSSIAN).

AUTHOR- MIKULIN, G.I.;VOZNESENSKAYA, I.E.

REFERENCE- VOP. FIZ. KHIM. RASTVONOV. ELEKTROLIT.,
V. 1968, P. 150-171(1968). REFERENCE. CHEM.
ABSTR., V. 70, ABSTR. NO. 61761R.

396

MIKULIN 68B

TITLE- CALCULATION OF THE ACTIVITY COEFFICIENTS FOR
MIXED SOLUTIONS OF TWO ELECTROLYTES WITH A
COMMON ION FROM ISOPIESTIC MEASUREMENTS.

AUTHOR- MIKULIN, G.I.;VOZNESENSKAYA, I.E.

REFERENCE- VOP. FIZ. KHIM. RASTVONOV. ELEKTROLIT.,
V. 1968, P. 256-276(1968). REFERENCE. CHEM.
ABSTR., V. 69, ABSTR. NO. 110532G.

397

MILAZZO 69

TITLE- INDIVIDUAL ACTIVITY COEFFICIENTS OF IONIC
SPECIES.

AUTHOR- MILAZZO, G.;SHARMA, V.K.;REYFTMAN, I.P.
[ROME UNIV. (ITALY)].

REFERENCE- INDIVIDUAL ACTIVITY COEFFICIENTS OF IONIC
SPECIES. AD NO. 701050, U.S. CLEARINGHOUSE
FED. SCI. TECH. INFORM., 1969, REFERENCE. CHEM.
ABSTR., V. 73, ABSTR. NO. 49076A.

398

MILLERO 73C
SOLUTIONS/THERMODYNAMICS

TITLE- HEAT CAPACITY OF SEA WATER SOLUTIONS FROM 5
DEGREES TO 35 DEGREES AND 0.5 TO 22 PER CENT
CHLORINITY.

AUTHOR- MILLERO, F.J. [MIAMI UNIV., FLA. (USA).
ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC
SCIENCES].

PERRON, G.;DESNOYERS, J.E. [SHERBROOKE

UNIV., QUEBEC (CANADA). DEPT. DE CHIMIE].

REFERENCE- J. GEOPHYS. RES., V. 78 (21), P.
4499-4507(1973).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; DENSITY; APPARENT
MOLAL SPECIFIC HEAT; SPECIFIC HEAT; INFINITE
DILUTION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; SEA WATER;
SODIUM CHLORIDES.

399

MISHIMA 67

TITLE- THE VAPOR PRESSURE LOWERING OF THE MIXED
AQUEOUS SOLUTION OF SOME INORGANIC SALT AND
UREA.

AUTHOR- MISHIMA, M.; NEGITA, H. [HIROSHIMA UNIV.
(JAPAN)].

REFERENCE- J. SCI. HIROSHIMA UNIV., SER. A-2, V. 31
(1), P. 33-40(1967). REFERENCE. CHEM. ABSTR.,
V. 69, ABSTR. NO. 70714J.

400

MOMICCHIOLI 68
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMIC PROPERTIES OF CONCENTRATED
SOLUTIONS OF STRONG ELECTROLYTES. ACTIVITY
COEFFICIENT OF WATER FROM THE MEASUREMENT OF
THE FREEZING POINT DEPRESSION BY ALKALI METAL
CHLORIDES.

AUTHOR- MOMICCHIOLI, F.

REFERENCE- ATTI. SOC. NAT. MAT. MODENA, V. 99, P.
226-232(1968).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
MELTING POINT; ACTIVITY COEFFICIENT; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; LOW TEMPERATURE; ELECTROLYTES;
CESIUM CHLORIDES; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

MOTOYAMA 71

TITLE- EQUILIBRIUMS OF QUINARY SYSTEM OF SEA SALTS.
 ([NA, K, MG // CL, SO₄]-H₂O).

AUTHOR- MOTOYAMA, M.;KADOTA, M.;OKA, S. [TOYO UNIV.,
 TOKYO (JAPAN)].

REFERENCE- NIPPON KAISUI GAKKAI-SHI, V. 24 (131), P.
 189-196(1971). REFERENCE. CHEM. ABSTR., V. 75,
 ABSTR. NO. 101799W.

MOTOYAMA 72

TITLE- CALCULATION OF THE SOLUBILITY OF SALTS IN THE
 QUINARY SYSTEM OF SODIUM CHLORIDE-POTASSIUM
 CHLORIDE-MAGNESIUM CHLORIDE-CALCIUM
 CHLORIDE-WATER SATURATED WITH SODIUM CHLORIDE.

AUTHOR- MOTOYAMA, M.;KADOTA, M.;OKA, S. [TOYO UNIV.,
 KAWAGOE (JAPAN)].

REFERENCE- NIPPON KAISUI GAKKAI-SHI, V. 26 (139), P.
 16-20(1972). REFERENCE. CHEM. ABSTR., V. 78,
 ABSTR. NO. 164835N.

MOTOYAMA 72B

TITLE- EQUILIBRIUM IN THE QUINARY SYSTEM SODIUM
 CHLORIDE-POTASSIUM CHLORIDE-MAGNESIUM
 CHLORIDE-CALCIUM CHLORIDE-WATER.

AUTHOR- MOTOYAMA, M.;KADOTA, M.;OKA, S. [TOYO UNIV.,
 KAWAGOE (JAPAN)].

REFERENCE- NIPPON KAISUI GAKKAI-SHI, V. 26 (142), P.
 173-180(1972). REFERENCE. CHEM. ABSTR., V. 82,
 ABSTR. NO. 160886Q.

MOTOYAMA 74

TITLE- GRAPHICAL REPRESENTATION METHOD OF THE
QUINARY SYSTEM SODIUM CHLORIDE-POTASSIUM
CHLORIDE-MAGNESIUM CHLORIDE-CALCIUM
CHLORIDE-WATER ON A TRIANGULAR DIAGRAM.

AUTHOR- MOTOYAMA, M.;KADOTA, M.;OKA, S. [TOYO UNIV.,
KAWAGOE (JAPAN)].

REFERENCE- NIPPON KAISUI GAKKAI-SHI, V. 28 (153), P.
146-150(1974). REFERENCE. CHEM. ABSTR., V. 82,
ABSTR. NO. 160893Q.

405

MOTOYAMA 75

TITLE- CALCULATION OF THE SOLUBILITY OF SALTS IN THE
QUINARY SYSTEM SODIUM CHLORIDE-POTASSIUM
CHLORIDE-MAGNESIUM CHLORIDE-CALCIUM
CHLORIDE-WATER SATURATED WITH SODIUM CHLORIDE.
II..

AUTHOR- MOTOYAMA, M.;KADOTA, M.;OKA, S. [TOYO UNIV.,
KAWAGOE (JAPAN)].

REFERENCE- NIPPON KAISUI GAKKAI-SHI, V. 28 (155), P.
347-352(1975). REFERENCE. CHEM. ABSTR., V. 83,
ABSTR. NO. 104062B.

406

MUSSINI 70
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- ACTIVITY COEFFICIENTS AND TRANSFERENCE
NUMBERS OF AQUEOUS SODIUM CHLORIDE AND CALCIUM
CHLORIDE AT VARIOUS TEMPERATURES AND
CONCENTRATIONS.

AUTHOR- MUSSINI, T.;PAGELLA, A.

REFERENCE- CHIM. IND. (MILAN), V. 52 (12), P.
1187-1191(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; ELECTROMOTIVE FORCE;
TRANSFERENCE NUMBER; ACTIVITY COEFFICIENT; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; CALCIUM CHLORIDES; SODIUM

407

NAKANISHI 70

TITLE- MODEL EXPERIMENTS. 16. MODELS OF SOLUBILITY.

AUTHOR- NAKANISHI, K.;YUHIGAOKA, G. [PREP. SCH.
{JAPAN}].

REFERENCE- KAGAKU NO JIKKEN, V. 21 (4), P.
393-398(1970). REFERENCE. CHEM. ABSTR., V. 74,
ABSTR. NO. 134903H.

408

NAKANISHI 70B

TITLE- MODEL EXPERIMENTS. 17. THEORY OF DILUTE
SOLUTIONS.

AUTHOR- NAKANISHI, K. [YUHIGAOKA GAKUIN PREP. SCH.
{JAPAN}].

REFERENCE- KAGAKU NO JIKKEN, V. 21 (5), P.
488-494(1970). REFERENCE. CHEM. ABSTR., V. 74,
ABSTR. NO. 134902G.

409

NAKAYAMA 70

TITLE- THERMODYNAMIC INTERPRETATION ON THE
SOLUBILITIES OF ELECTROLYTES IN WATER.

AUTHOR- NAKAYAMA, H. [YOKOHAMA NATIONAL UNIV.
{JAPAN}. DEPT. APPL. CHEM.].

REFERENCE- BULL. FAC. ENG., YOKOHAMA NAT. UNIV., V.
19, P. 29-44(1970). REFERENCE. CHEM. ABSTR.,
V. 73, ABSTR. NO. 113572P.

410

NEVOLINA 73

TITLE- SPECIFIC VOLUMES AND RELATIVE VOLUME

DECREMENTS OF SOLUTIONS OF THE CHLORIDES OF
SODIUM, POTASSIUM, AND AMMONIUM IN HEAVY WATER
AT PRESSURES UP TO 1250 KG/CM².

AUTHOR- NEVOLINA, N.A.

REFERENCE- TEPLOFIZ. SVOISTVA VESHCHESTV MATER., V.
7, P. 171-173(1973). REFERENCE. CHEM. ABSTR.,
V. 83, ABSTR. NO. 137834H.

411

ONDA 70

TITLE- DIFFUSION COEFFICIENTS OF GASEOUS CARBON
DIOXIDE IN AQUEOUS ELECTROLYTE SOLUTIONS.

AUTHOR- ONDA, K.;SADA, E.;KOBAYASHI, T.;ANDO,
N.;KITO, S. [NAGOYA UNIV. (JAPAN)].

REFERENCE- KAGAKU KOGAKU, V. 34 (6), P.
603-607(1970). REFERENCE. CHEM. ABSTR., V. 73,
ABSTR. NO. 113198W.

412

ONITIU 72
SOLUTIONS/VOLUMETRIC

TITLE- COMPRESSIBILITY OF AQUEOUS SOLUTIONS OF
CERTAIN HALIDES. I. ALKALI METAL CHLORIDES.
(IN FRENCH).

AUTHOR- ONITIU, L.;AUSLANDER, D. [BABES-BOLYAI
UNIV., CLUJ (ROMANIA)].

REFERENCE- ACTA CHIM. (BUDAPEST), V. 75, P.
45-51(1972).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS;
COMPRESSIBILITY; VELOCITY OF SOUND; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

413

ORISHCHENKO 73
SOLUTIONS/MISC.

TITLE- THE NATURE OF THE NEGATIVE VISCOSITY OF
AQUEOUS AND NON-AQUEOUS ELECTROLYTE SOLUTIONS.

AUTHOR- ORISHCHENKO, A.V. [KOROTCHENKO KIEV
INSTITUTE (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 47 (2), P.
272-273(1973).

DESCRIPTORS- REVIEWS; GRAPHS; VISCOSITY;
PYCNOMETERS; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; LITHIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
IODIDES; SODIUM CHLORIDES.

414

OTHMER 68
SOLUTIONS/MISC.

TITLE- CORRELATING VAPOR PRESSURES AND VAPOR
VOLUMES. USE OF REFERENCE SUBSTANCE EQUATIONS.

AUTHOR- OTHMER, D.F.; YU, E.S. [POLYTECHNIC INST. OF
BROOKLYN, N.Y. (USA)].

REFERENCE- IND. ENG. CHEM., V. 60 (1), P.
22-35(1968).

DESCRIPTORS- REVIEWS; VAPOR PRESSURE; NONAQUEOUS
SOLUTIONS.

415

OZDEMIR 72

TITLE- CONCENTRATED SALT SOLUTIONS. EQUILIBRIUMS OF
CALCIUM SULFATE MODIFICATIONS AND CALCULATION
OF AVERAGE ACTIVITY COEFFICIENTS.

AUTHOR- OZDEMIR, C. [ARASTIRMA MUDULUGU (TURKEY).
PETKIM PETROKIM. A.S.].

REFERENCE- TEK. BUL., PETKIM PETROKIMYA A. S.
ARASTIRMA MUDURLUGU, V. 58, P. 1-21(1972).
REFERENCE. CHEM. ABSTR., V. 82, ABSTR. NO.

416

TITLE- POSSIBLE ADDITIVE CALCULATION OF THE ACTIVITY PROPERTIES OF WATER IN TERNARY SOLUTIONS. (IN RUSSIAN).

AUTHOR- PASKALEV, N. [INST. OBSHCH., SOFIA (USSR). NEORG. KHIM.].

REFERENCE- DOKL. BOLG. AKAD. NAUK, V. 22 (9), P. 1007-1010(1969). REFERENCE. CHEM. ABSTR., V. 72, ABSTR. NO. 16118S.

417

TITLE- SURFACE TENSION OF SALINE WATERS. (IN RUSSIAN).

AUTHOR- PEPINOV, R.I.; ZOKHRABBKOVA, G.YU. [AZERBAJDZHANSKIY NAUCHNO-ISSLEDOVATEL'SKIY INST. ENERG., BAKU (USSR)].

REFERENCE- MATER. VSES. NAUCHNO-TEKH. SOVESHCH. TEPLOOBMENNYYN TEPLOFIZ. SVOISTVAM MORSK. SOLONOVATYKH VOD IKH ISPOL'Z. PAROGENERATORAKH OPRESNITELYAKH, 1ST. 1973, P. 422-426. REFERENCE. CHEM. ABSTR., V. 83, ABSTR. NO. 48678T.

418

TITLE- THE APPARENT MOLAL HEAT CAPACITIES AND VOLUMES OF AQUEOUS NaCl FROM 0.01 TO 3 MOL/KG IN THE TEMPERATURE RANGE 274.65 TO 318.15 K.

AUTHOR- PERRON, G.; FORTIER, J.L.; DESNOYERS, J.E. [SHERBROOKE UNIV., QUEBEC (CANADA). DEPT. DE CHIMIE].

REFERENCE- J. CHEM. THERMODYN., V. 7, P. 1177-1184(1975).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; APPARENT MOLAL SPECIFIC HEAT; ENTHALPY; FLOW CALORIMETERS; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; LOW TEMPERATURE; MODERATE TEMPERATURE; SODIUM

PICKER 68
SOLUTIONS/THERMODYNAMICS

TITLE- DIFFERENTIAL ISOTHERMAL
MICROCALORIMETER/HEATS OF MIXING OF AQUEOUS
NACL + KCL SOLUTIONS.

AUTHOR- PICKER, P.; JOLICOEUR, C.; DESNOYERS, J.E.
[SHERBROOKE UNIV., QUEBEC (CANADA). DEPT. DE
CHIMIE].

REFERENCE- REV. SCI. INSTRUM., V. 39 (5), P.
676-680(1968).

DESCRIPTORS- GRAPHS; MIXING HEAT; MEASURING
INSTRUMENTS; CALORIMETERS; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

PLATFORD 72

TITLE- ISOPIESTIC DETERMINATION OF SOLUBILITIES IN
MIXED SALT SOLUTIONS. TWO SALT SYSTEMS.

AUTHOR- PLATFORD, R.F. [CENTRE FOR INLAND WATERS,
BURLINGTON, ONTARIO (CANADA)].

REFERENCE- AM. J. SCI., V. 272 (10), P.
959-968(1972). REFERENCE. CHEM. ABSTR., V. 78,
ABSTR. NO. 20848W.

POPKOV 67
SOLUTIONS/THERMODYNAMICS

TITLE- THERMOCHEMICAL CHARACTERISTICS OF MAGNESIUM
CHLORIDE-HYDROCHLORIC ACID-WATER, CALCIUM
CHLORIDE-HYDROCHLORIC ACID-WATER, AND CALMIUM
CHLORIDE-HYDROCHLORIC ACID-WATER SYSTEMS.

AUTHOR- POPKOV, O.S.; LILICH, L.S.; KRUPINSKAYA, A.V.

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM.
TEKHNOL., V. 10 (12), P. 1303-1307(1967).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
MIXING HEAT; HIGH CONCENTRATION; STANDARD
TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES;
HYDROCHLORIC ACID; MAGNESIUM CHLORIDES;

422

POPOVA 69
SOLUTIONS/MISC.

TITLE- DIFFUSION IN CONCENTRATED ELECTROLYTE
SOLUTIONS.

AUTHOR- POPOVA, L.V.

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM.
TEKHNOL., V. 12 (3), P. 269-272(1969).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS;
DIFFUSION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES; POTASSIUM IODIDES.

423

PRUDNIKOV 70

TITLE- IMPROVED METHOD FOR MEASURING THE THERMAL
CONDUCTIVITY OF ELECTROLYTE SOLUTIONS.

AUTHOR- PRUDNIKOV, N.K. [IVANOVSKIJ EHNERGETICHESKIJ
INST. (USSR)].

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED. ENERG., V. 13
(1), P. 122-126(1970). REFERENCE. CHEM.
ABSTR., V. 73, ABSTR. NO. 70521B.

424

PYTKOWICZ 69

TITLE- HARNED'S RULE BEHAVIOR OF SODIUM
CHLORIDE-SODIUM SULFATE SOLUTIONS EXPLAINED BY
AN ION ASSOCIATION MODEL.

AUTHOR- PYTKOWICZ, R.M.; RICARDO, M.; KESTER, D.R.

[OREGON STATE UNIV., CORVALLIS (USA)].

REFERENCE- AM. J. SCI., V. 267 (2), P.
217-229(1969). REFERENCE. CHEM. ABSTR., V. 70,
ABSTR. NO. 91236R.

425

RABINOVICH 71

TITLE- REAL THERMODYNAMIC ACTIVITY OF DIFFERENT IONS
AND THE SOLUBILITY OF SOME SALTS IN
HYDROCHLORIC ACID AND POTASSIUM CHLORIDE
SOLUTIONS.

AUTHOR- RABINOVICH, V.A.; ROTSHEIN, V.P.; ALEKSEEVA,
T.E.

REFERENCE- TEOR. RASTVOROV, V. 1971, P.
133-139(1971). REFERENCE. CHEM. ABSTR., V. 77,
ABSTR. NO. 131381N.

426

RAFAL'SKII 70
SOLUTIONS/THERMODYNAMICS

TITLE- IONIC ACTIVITY COEFFICIENTS IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES. (IN
RUSSIAN).

AUTHOR- RAFAL'SKII, R.P.

REFERENCE- GEOL. RUDN. MESTOROZHDO., V. 12 (2), P.
111-115(1970).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE; ELECTROLYTES.

427

RAO 66
SOLUTIONS/MISC.

TITLE- DIELECTRIC CONSTANTS OF AQUEOUS ELECTROLYTIC
SOLUTIONS.

AUTHOR- RAO, P.S.K.M.; PREMASWARUP, D. (ANDHRA UNIV.,

WALTAIR (INDIA). PHYSICS DEPT., MICROWAVE
RESEARCH LABORATORY].

REFERENCE- INDIAN J. PURE APPL. PHYS., V. 4 (8), P.
322-323(1966).

DESCRIPTORS- REVIEWS; TABLES; DIELECTRIC CONSTANT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES;
MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES;
SODIUM BROMIDES; SODIUM CHLORIDES.

428

RAMANATHAN 69

TITLE- ULTRASONIC VELOCITY AND COMPRESSIBILITY INDEX
IN ACID-BASE SOLUTIONS.

AUTHOR- RAMANATHAN, V.; RAMAN, N. [MADURAI UNIV.
(INDIA). THIAGARAJAN COLL. ENGL.].

REFERENCE- DEF. SCI. J., V. 19 (2), P.
149-152(1969). REFERENCE. CHEM. ABSTR., V. 71,
ABSTR. NO. 95491P.

429

RAUP 70

TITLE- BRINE MIXING/ AN ADDITIONAL MECHANISM FOR
FORMATION OF BASIN EVAPORITES.

AUTHOR- RAUP, O.B. [GEOLOGICAL SURVEY, DENVER, COLO.
(USA)].

REFERENCE- AM. ASS. PETROL. GEOL. BULL., V. 54 (12),
P. 2246-2259(1970). REFERENCE. CHEM. ABSTR.,
V. 74, ABSTR. NO. 115730H.

430

REILLY 72
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF MIXING AQUEOUS ELECTROLYTES. IX. THE
RECIPROCAL SALT PAIR Mg^{2+} , Na^+ , Cl^- , Br^- .

AUTHOR- REILLY, P.J.; WOOD, R.H. [DELAWARE UNIV.,

NEWARK (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 76 (23), P.
3474-3479(1972).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; TABLES; MIXING HEAT; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; ELECTROLYTES; MIXTURES; MAGNESIUM
CHLORIDES; SODIUM BROMIDES; SODIUM CHLORIDES.

431

REZNIK 68

TITLE- OSMOTIC COEFFICIENTS AND ACTIVITY
COEFFICIENTS OF MIXED SODIUM CHLORIDE AND
CALCIUM CHLORIDE AQUEOUS SOLUTIONS AT 25
DEGREES. (IN RUSSIAN).

AUTHOR- REZNIK, F.YA.;ORLOVA, N.N.;VITEEVA, L.N.

REFERENCE- VOP. FIZ. KHIM. RASTVONOV. ELEKTROLIT.,
V. 1968, P. 289-303(1968). REFERENCE. CHEM.
ABSTR., V. 69, ABSTR. NO. 110514C.

432

RIEDL 72

TITLE- ANALYSIS OF PHYSIOCHEMICAL CHARACTERISTICS
AND ACTIVATION THERMODYNAMICAL FUNCTIONS OF THE
SODIUM HYDROXIDE-WATER AND SODIUM
HYDROXIDE-WATER-ALUMINUM OXIDE SYSTEMS.

AUTHOR- RIEDL, I. [TECH. UNIV. HEAVY IND., MISKOLC
(HUNGARY). DEP. METALL.].

REFERENCE- NEHEZIP. MUSZ. EGY., MISKOLC,
IDEGENNYELVU KOZL., V. 32, P. 217-231(1972).
REFERENCE. CHEM. ABSTR., V. 78, ABSTR. NO.
140501Z.

433

ROBINSON 67

TITLE- SOLUTION DENSITIES OF SODIUM CHLORIDE AS A
FUNCTION OF TEMPERATURE AND ANHYDROUS SALT
CONTENT.

AUTHOR- ROBINSON, W.L.; WESTON, M.J.P. [CALIFORNIA
UNIV., LIVERMORE (USA). LAWRENCE LIVERMORE

REFERENCE- SOLUTION DENSITIES OF SODIUM CHLORIDE AS
A FUNCTION OF TEMPERATURE AND ANHYDROUS SALT
CONTENT. UCRL-50256, U. S. AT. ENERGY COMM.,
1967, 107 P.. REFERENCE. CHEM. ABSTR., V. 68,
ABSTR. NO. 43400B.

434

ROBINSON 68

TITLE- THE THERMODYNAMICS OF THE TERNARY
SYSTEM/WATER-POTASSIUM CHLORIDE-CALCIUM
CHLORIDE AT 25 DEGREES.

AUTHOR- ROBINSON, R.A.; COVINGTON, A.K. [NATIONAL
BUREAU OF STANDARDS, WASHINGTON, D.C. (USA).
INST. FOR MATER. RES.].

REFERENCE- J. RES. NAT. BUR. STAND., SEC. A, V. 72
(3), P. 239-245(1968). REFERENCE. CHEM.
ABSTR., V. 69, ABSTR. NO. 30755S.

435

SHCHUROV 66

TITLE- HIGH FREQUENCY STUDY OF SOLUBILITY IN BINARY
AND TERNARY SYSTEMS.

AUTHOR- SHCHUROV, YU.A.; UST-KACHKINTSEV, V.F.

REFERENCE- UCH. ZAP., PERMSK. GOS. UNIV., NO. 141,
P. 56-63(1966). REFERENCE. CHEM. ABSTR., V.
69, ABSTR. NO. 39152A.

436

SHUKAN 75
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENTS IN NaCl SOLUTIONS.

AUTHOR- SHUKAN, M.YA.

REFERENCE- ZH. FIZ. KHIM., V. 49 (8), P.
2086-2090(1975).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; ACTIVITY COEFFICIENT; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; SODIUM CHLORIDES.

437

OWENS 57

TITLE- STANDARD PARTIAL MOLAL COMPRESSIBILITIES BY
ULTRASONICS. I. SODIUM CHLORIDE AND POTASSIUM
CHLORIDE AT 25 DEGREES.

AUTHOR- OWENS, B.B.; SIMMONS, H.L. [YALE UNIV., NEW
HAVEN, CONN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 61, P. 479-482(1957).

438

SINGH 68

TITLE- THE THERMAL CONDUCTIVITY OF STATIONARY AND
FLOWING SUSPENSIONS.

AUTHOR- SINGH, A.

REFERENCE- THE THERMAL CONDUCTIVITY OF STATIONARY
AND FLOWING SUSPENSIONS. PHD THESIS, MINNESOTA
UNIV., MINNEAPOLIS, 1968, 200 P.. REFERENCE.
DISS. ABSTR., V. 29, P. 1025-B.

439

SIROTA 69
SOLUTIONS/MISC.

TITLE- EXPERIMENTAL STUDY OF THE ELECTRICAL
CONDUCTIVITY OF AQUEOUS SOLUTIONS OF
ELECTROLYTES. (IN RUSSIAN).

AUTHOR- SIROTA, A.M.; SHVYRYAEV, YU.V.

REFERENCE- TEPLOENERGETIKA, V. 16 (3), P.
82-84(1969).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; ELECTRIC
CONDUCTIVITY; MEASURING INSTRUMENTS; SATURATED

VAPOR; ELEVATED TEMPERATURE; SODIUM CHLORIDES.

440

SMOLYAKOV 75
SOLUTIONS/MISC.

TITLE- MAXIMUM EQUIVALENT CONDUCTIVITY OF AQUEOUS SOLUTIONS OF Li^{+1} , Na^{+1} , K^{+1} , Rb^{+1} , Cs^{+1} , AND Cl^{-1} IONS IN WATER AT 5-200 DEGREES. II. RELATION OF THE MAXIMUM ELECTRIC CONDUCTIVITY OF THE IONS WITH THE VISCOSITY OF THE H_2O .

AUTHOR- SMOLYAKOV, B.S.; LESELOVA, G.A.

REFERENCE- ELEKTROKIMIYA, V. 11 (5), P. 700-704(1975).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES; ELECTRIC CONDUCTIVITY; VISCOSITY; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; IONS.

441

SOLOV'EVA 72

TITLE- SOLUBILITY IN THE SODIUM POTASSIUM MAGNESIUM//CHLORIDE, SULFATE-WATER SYSTEM AT 50 DEGREES.

AUTHOR- SOLOV'EVA, E.F.; LYAKHOVSKAYA, E.I.

REFERENCE- TR. VSES. NAUCHNO-ISSLED. PROEKTN. INST. GALURGII, NO. 59, P. 191-209(1972). REFERENCE. CHEM. ABSTR., V. 80, ABSTR. NO. 52866H.

442

SOROKIN 70B
SOLUTIONS/THERMODYNAMICS

TITLE- CALORIMETER FOR STUDYING SPECIFIC HEATS OF AQUEOUS ELECTROLYTE SOLUTIONS AT HIGH TEMPERATURES.

AUTHOR- SOROKIN, V.N.; GORBACHEV, S.V. [MOSK. KHIM.-TEKHNOL. INST. MENDELEEVA, MOSCOW (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 44 (5), P.

757-758(1970). REFERENCE. CHEM. ABSTR., V. 73,
ABSTR. NO. 59770M.

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; APPARENT
MOLAL SPECIFIC HEAT; MEASURING INSTRUMENTS;
CALORIMETERS; ELEVATED CONCENTRATION; SATURATED
VAPOR; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SODIUM CHLORIDES.

443

SRNA 72

TITLE- HEATS OF MIXING AQUEOUS SOLUTIONS OF SODIUM,
MAGNESIUM CHLORIDE, AND SULFATE IONS.

AUTHOR- SRNA, R.F. [DELAWARE UNIV., NEWARK (USA)].

REFERENCE- HEATS OF MIXING AQUEOUS SOLUTIONS OF
SODIUM, MAGNESIUM CHLORIDE, AND SULFATE IONS.
THESIS, 1972, 226 P.. REFERENCE. CHEM. ABSTR.,
V. 78, ABSTR. NO. 76555R.

444

STAKHANOVA 69

TITLE- THERMODYNAMIC PROPERTIES OF 2- AND 3-
COMPONENT AQUEOUS SOLUTION OF RARE ALKALI-METAL
CHLORIDES. (IN RUSSIAN).

AUTHOR- STAKHANOVA, M.S.;KARAPET'YANTS,
M.KH.;VASILEV, V.A.;BAZLOVA, I.V.;VLASENKO, K.K.

REFERENCE- REDK. SHCHELOCHNYE ELEM., V. 1969, P.
185-192(1969). REFERENCE. CHEM. ABSTR., V. 74,
ABSTR. NO. 1037690.

445

STILLINGER 68

TITLE- ION DISTRIBUTION OF CONCENTRATED
ELECTROLYTES.

AUTHOR- STILLINGER, F.H. [BELL TELEPHONE LABS.,
INC., MURRAY HILL, N.J. (USA)].

REFERENCE- PROC. NAT. ACAD. SCI. USA, V. 60 (4), P.
1138-1143(1968). REFERENCE. CHEM. ABSTR., V.

446

SZABO 70

TITLE- HYDRATION OF METAL IONS.

AUTHOR- SZABO, Z.G.; PALFALVI-ROZSAHEGYI, M.; BURGER, K. [L. EOTVOS UNIV., BUDAPEST (HUNGARY). INST. INORG. ANAL. CHEM.].

REFERENCE- PROC. SYMP. COORD. CHEM. 3RD, V. 1, P. 99-110(1970). REFERENCE. CHEM. ABSTR., V. 74, ABSTR. NO. 57949Y.

447

TANIMOTO 68

TITLE- SOLUBILITY, DENSITY, AND VISCOSITY DATA OF KCL-BACL₂·2H₂O-H₂O SYSTEM.

AUTHOR- TANIMOTO, A.; MORI, S. [KANAZAWA UNIV. (JAPAN)].

REFERENCE- KANAZAWA DAIGAKU KOGAKUBU KIYO, V. 5 (2), P. 77-84(1968). REFERENCE. CHEM. ABSTR., V. 70, ABSTR. NO. 32042B.

448

TANJI 69
SOLUTIONS/MISC.

TITLE- PREDICTING SPECIFIC CONDUCTANCE FROM ELECTROLYTIC PROPERTIES AND ION ASSOCIATION IN SOME AQUEOUS SOLUTIONS.

AUTHOR- TANJI, K.K.

REFERENCE- SOIL SCI. SOC. AM., PROC., V. 33 (6), P. 887-890(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; TABLES; ELECTRIC CONDUCTIVITY; LOW CONCENTRATION; MODERATE CONCENTRATION; STANDARD TEMPERATURE; CALCIUM CHLORIDES; CALCIUM SULFATES; MAGNESIUM CHLORIDES; MAGNESIUM SULFATES; SODIUM CHLORIDES; SODIUM SULFATES.

449

TATARINOV 66
SOLUTIONS/MISC.

TITLE- SOLUBILITY OF CHLORIDES IN SATURATED STEAM.

AUTHOR- TATARINOV, YU.

REFERENCE- TEPLOENERGETIKA, V. 13 (11), P.
59-61(1966).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS;
SOLUBILITY; VAPOR SOLUBILITY; CESIUM CHLORIDES;
LITHIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES.

450

TERESHKIN 71
SOLUTIONS/THERMODYNAMICS

TITLE- RAPID METHOD FOR DETERMINATION OF THE AVERAGE
SPECIFIC HEAT OF AQUEOUS SOLUTIONS OF INORGANIC
COMPOUNDS.

AUTHOR- TERESHKIN, I.V.;FILIPPOV, S.N.

REFERENCE- ZAVOD. LAB., V. 37 (3), P. 313(1971).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS; SPECIFIC
HEAT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; MODERATE
TEMPERATURE; NITRIC ACID; SODIUM CHLORIDES.

451

TONCHEVA 70

TITLE- BINARY AQUEOUS SOLUTION OF UNIVALENT METAL
SALTS STUDIED ACCORDING TO A CHANGE IN THE
COEFFICIENT OF SURFACE TENSION DEPENDENT ON THE
QUANTITATIVE RATIO OF DISSOLVED SALTS. (IN
BULGARIAN).

AUTHOR- TONCHEVA, T.;POPOV, G. [VPI, PLOVDIV
(BULGARIA)].

REFERENCE- NAUCHN. TR. VISSH. PEDAGOG. INST.,

PLOVDIV, MAT., FIZ., KHIM., BIOL., V. 8 (2), P.
101-103(1970). REFERENCE. CHEM. ABSTR., V. 75,
ABSTR. NO. 53477R.

452

TONCHEVA 70B

TITLE- RELATIONS AMONG THE COEFFICIENTS OF SURFACE
TENSION, CONCENTRATION, AND THE DEGREE OF
HYDRATION OF SALT CATIONS OF AQUEOUS SALT
SOLUTIONS.

AUTHOR- TONCHEVA, T.; POPOV, G. [VIKHVP, PLOVDIV
(BULGARIA)].

REFERENCE- NAUCHN. TR. VISSH. PEDAGOG. INST.,
PLOVDIV, MAT., FIZ., KHIM., BIOL., V. 8 (2), P.
93-95(1970). REFERENCE. CHEM. ABSTR., V. 75,
ABSTR. NO. 53481N.

453

TORYANIK 69
SOLUTIONS/MISC.

TITLE- CONCENTRATION AND TEMPERATURE DEPENDENCES OF
THE ACTIVATION ENERGY OF SELF-DIFFUSION IN
AQUEOUS ELECTROLYTE SOLUTIONS. (IN RUSSIAN).

AUTHOR- TORYANIK, A.I.; KISEL'NIK, V.V.

REFERENCE- TEOR. EKSP. KHIM., V. 5 (3), P.
411-415(1969).

DESCRIPTORS- GRAPHS; DIFFUSION; NUCLEAR MAGNETIC
RESONANCE; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; CESIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
IODIDES; SODIUM CHLORIDES.

454

TORYANIK 69B

TITLE- ACTIVATION ENERGY OF SELF DIFFUSION IN
AQUEOUS ELECTROLYTE SOLUTIONS. (IN RUSSIAN).

AUTHOR- TORYANIK, A.I.;MATYASH, I.V.;KISEL'NIK, V.V.

REFERENCE- VOP. FIZ. KONDENS. SOSTOYANIYA, V. 1969,
P. 80-85(1969). REFERENCE. CHEM. ABSTR., V.
73, ABSTR. NO. 29159B.

455

TSKHVIRASHVILI 73
SOLUTIONS/MISC.

TITLE- DISTRIBUTION PATTERN OF ELECTROLYTES BETWEEN
WATER AND ITS DRY SATURATED STEAMS.

AUTHOR- TSKHVIRASHVILI, D.G.;CHIKHLADZE,
N.M.;BERISHVILI, Z.D.;KHECHINASHVILI,
E.P.;UZNADZE, E.P.

REFERENCE- SOOBSHCH. AKAD. NAUK GRUZ. SSR, V. 69
(2), P. 353-356(1973).

DESCRIPTORS- GRAPHS; DISSOCIATION; EQUILIBRIUM
CONSTANT; ELEVATED TEMPERATURE; LITHIUM
CHLORIDES; EXPERIMENTAL RESULTS; POTASSIUM
CHLORIDES; POTASSIUM HYDROXIDES; SODIUM
CHLORIDES.

456

TUFEU 66
SOLUTIONS/MISC.

TITLE- THERMAL CONDUCTIVITY OF CERTAIN LIQUIDS. (IN
FRENCH).

AUTHOR- TUFEU, R.;LE NEINDRE, B.;JOHANNIN, P.

REFERENCE- COMPT. REND., SER. A., B, V. 262B (4), P.
229-231(1966).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS; THERMAL
CONDUCTIVITY; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; MODERATE
TEMPERATURE; SODIUM CHLORIDES.

457

TUKHTAEV 67

TITLE- SOLUBILITY IN A SYSTEM OF POTASSIUM AND

MAGNESIUM CHLORIDES AND SULFATES.

AUTHOR- TUKHTAEV, SH.SH.; OSICHKINA, R.G.; BERGMAN,
A.G.; NABIEV, M.N.

REFERENCE- MINER. ORGANO-MINER. UDOBROV.,
STRUKTURDOBRAZOVATELI POCHV. GERBITS., V. 1967,
P. 208-234(1967). REFERENCE. CHEM. ABSTR., V.
70, ABSTR. NO. 109579S.

458

TUN 69

TITLE- POLARIZATION/EFFECT OF CURRENT DENSITY ON
CONDUCTANCE.

AUTHOR- TUN, K. [ARTS SCI. UNIV., MANDALAY (BURMA)].

REFERENCE- UNION BURMA J. SCI. TECHNOL., V. 2 (2),
P. 221-230(1969). REFERENCE. CHEM. ABSTR., V.
74, ABSTR. NO. 68440B.

459

TURNER 70
SOLUTIONS/MISC.

TITLE- ELEMENTAL VARIATIONS OF TRANSPORT
COEFFICIENTS ACROSS DENSITY INTERFACES IN
MULTIPLE-DIFFUSIVE SYSTEMS.

AUTHOR- TURNER, J.S.; SHIRTCLIFFE,
T.G.L.; SHIRTCLIFFE, T.G.L. [CAMBRIDGE UNIV.
(UK). DEPT. OF APPLIED MATHEMATICS AND
THEORETICAL PHYSICS].

BREWER, P.G. [WOODS HOLE OCEANOGRAPHIC
INSTITUTION, MASS. (USA)].

REFERENCE- NATURE (LONDON), V. 228 (5276), P.
1083-1084(1970).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS;
DIFFUSIVITY; DIFFUSION; TRANSPORT PROPERTIES;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
STANDARD PRESSURE; MIXTURES; CALCIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

460

TITLE- SOLUTION PROPERTIES/VAPOR PRESSURE OSMOMETRY.

AUTHOR- UMBREIT, G.R.; BOGART, G.C.S.

REFERENCE- FACTS METHODS SCI. RES., V. 7 (3), P. 9-11(1966). REFERENCE. CHEM. ABSTR., V. 69, ABSTR. NO. 61998C.

461

URUSOVA 67
SOLUTIONS/MISC.

TITLE- VAPOR PRESSURE OF SATURATED AQUEOUS SOLUTIONS OF ALKALI METAL HALIDE SALTS. (IN RUSSIAN).

AUTHOR- URUSOVA, M.A.

REFERENCE- RUSS. J. INORG. CHEM., V. 12 (12), P. 1797-1798(1967). TRANSLATED FROM ZH. NEORG. KHIM., V. 12 (12), P. 3345-3347.

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES; VAPOR PRESSURE; HIGH CONCENTRATION; ELEVATED TEMPERATURE; HIGH TEMPERATURE; ELECTROLYTES; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM BROMIDES; SODIUM CHLORIDES.

462

URUSOVA 71C
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- THERMODYNAMIC CHARACTERISTICS OF WATER IN ALKALI HALIDE SALT SOLUTIONS AT HIGH TEMPERATURES.

AUTHOR- URUSOVA, M.A.

REFERENCE- IZV. AKAD. NAUK SSSR. SER. KHIM., V. 8, P. 1613-1618(1971).

DESCRIPTORS- GRAPHS; TABLES; VAPOR PRESSURE; THERMODYNAMICS; DILUTION HEAT; ENTHALPY; PARTIAL MOLAL ENTHALPY; PARTIAL MOLAL ENTROPY; VAPORIZATION HEAT; HIGH CONCENTRATION; MODERATE PRESSURE; ELEVATED PRESSURE; ELEVATED TEMPERATURE; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; POTASSIUM FLUORIDES; SODIUM CHLORIDES; WATER.

463

VAN HOOK 71

TITLE- ISOTOPE EFFECT ON THE THERMODYNAMIC ACTIVITY OF WATER.

AUTHOR- VAN HOOK, W.A. [TENNESSEE UNIV., KNOXVILLE (USA). WATER RESOUR. RES. CENT.].

REFERENCE- ISOTOPE EFFECT ON THE THERMODYNAMIC ACTIVITY OF WATER. PD-204892, 1971, 89 P.. REFERENCE. CHEM. ABSTR., V. 76, ABSTR. NO. 132182Q.

464

VASILEV 70

TITLE- DENSITIES AND SPECIFIC VOLUMES OF THREE-COMPONENT AQUEOUS SOLUTIONS OF BERYLLIUM SUBGROUP METAL CHLORIDES AT 25 DEGREES.

AUTHOR- VASILEV, V.A.; FEDYAINOV, N.V.; KARAPET'YANTS, M.KH.

REFERENCE- TR. MOSK KHIM.-TEKHNOL. INST., NO. 67, P. 29-31(1970). REFERENCE. CHEM. ABSTR., V. 75, ABSTR. NO. 80940T.

465

VASILEV 73B
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- SPECIFIC HEATS AND SPECIFIC VOLUMES OF ISOPIESTIC AQUEOUS SOLUTIONS OF BERYLLIUM SUBGROUP METAL CHLORIDES.

AUTHOR- VASILEV, Y.A.; FEDYAINOV, N.V.; KURENKOV, V.V. [MENDELEEV MOSCOW INSTITUTE OF CHEMICAL ENGINEERING (USSR). NOVOMOSKOVSK BRANCH].

REFERENCE- RUSS. J. PHYS. CHEM., V. 47 (11), P. 1570-1573(1973). TRANSLATED FROM ZH. FIZ. KHIM., V. 47 (11), P. 2799-2803.

DESCRIPTORS- EXPERIMENTAL RESULTS; REVIEWS;

EMPIRICAL EQUATIONS; GRAPHS; TABLES; DENSITY;
ACTIVITY COEFFICIENT; SPECIFIC HEAT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; MIXTURES;
BARIUM CHLORIDES; CALCIUM CHLORIDES; MAGNESIUM
CHLORIDES.

466

ROBINSON 72B
SOLUTIONS/THERMODYNAMICS

TITLE- EXCESS GIBBS ENERGY OF MIXING OF THE SYTEM
WATER-LITHIUM CHLORIDE-SODIUM SULFATE AND
WATER-CESIUM CHLORIDE-SODIUM SULFATE AT 25
DEGREES.

AUTHOR- ROBINSON, R.A. [STATE UNIV. OF NEW YORK,
BINGHAMTON (USA)].

REFERENCE- J. SOLUTION CHEM., V. 1 (1), P.
71-75(1972). REFERENCE. CHEM. ABSTR., V. 77,
ABSTR. NO. 144050D.

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; MIXING FREE ENERGY;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; STANDARD TEMPERATURE;
MIXTURES; CESIUM CHLORIDES; LITHIUM CHLORIDES;
SODIUM SULFATES.

467

RUHTENBERG 71
SOLUTIONS/MISC.

TITLE- DIFFUSION PATH AND CROSS SECTION DURING
PALSED DIFFUSION.

AUTHOR- RUHTENBERG, W.D.;HECKNER, K.H.

REFERENCE- Z. PHYS. CHEM. (LEIPZIG), V. 247 (3-4),
P. 219-224(1971).

DESCRIPTORS- THEORETICAL TREATMENTS; GRAPHS;
DIFFUSION; ELEVATED CONCENTRATION; STANDARD
TEMPERATURE; POTASSIUM CHLORIDES.

468

TITLE- Na^+ , Mg^{2+} , Ca^{2+}/Cl^- , $SO_4^{2-}-H_2O$ QUINARY SYSTEM
AT 50 DEGREES.

AUTHOR- RYSPEV, O.;BATYRCHAEV, I.E.;DRUZHININ, I.G.
[INST. NEORG. FIZ. KHIM., FRUNZE (USSR)].

REFERENCE- IZV. AKAD. NAUK KIRG. SSR, V. 1971 (3),
P. 56-60(1971). REFERENCE. CHEM. ABSTR., V.
75, ABSTR. NO. 122825S.

469

SAFFORD 69B

TITLE- NEUTRON SCATTERING STUDY OF WATER AND IONIC
SOLUTIONS.

AUTHOR- SAFFORD, G.J.;LEUNG, P.S. [UNION CARBIDE
CORP., TUXEDO, N.Y. (USA)].

REFERENCE- NEUTRON SCATTERING STUDY OF WATER AND
IONIC SOLUTIONS. NO. 485, U.S. OFF. SALINE
WATER, RES. DEV. PROG. REP., 1969, NO. 485, 36
P.. REFERENCE. CHEM. ABSTR., V. 73, ABSTR. NO.
113101J.

470

SALCEANU 68

TITLE- SPEED OF SOUND IN AQUEOUS ELECTROLYTE
SOLUTIONS.

AUTHOR- SALCEANU, C.;TUDOSE, C. [TIMISOARA UNIV.
(ROMANIA)].

REFERENCE- C. R. ACAD. SCI., PARIS, SER. A, B, V.
266 B (1), P. 4-7(1968). REFERENCE. CHEM.
ABSTR., V. 68, ABSTR. NO. 72525B.

471

SALOMAA 66
SOLUTIONS/THERMODYNAMICS

TITLE- FREE ENERGIES OF TRANSFER OF ALKALI CHLORIDES
FROM LIGHT TO HEAVY WATER FROM CELLS WITH
LIQUID, UNCTION POTENTIALS.

AUTHOR- SALOMAA, P.

REFERENCE- ACTA CHEM. SCAND., V. 20 (8), P.
2035-2042(1966).

DESCRIPTORS- TABLES; ELECTROMOTIVE FORCE; ISOTOPE
EFFECTS; FREE ENERGY; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; HEAVY WATER; LITHIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES; WATER.

472

SALVINIEN 69
SOLUTIONS/MISC.

TITLE- EXPERIMENTAL STUDY OF TRANSPORT PHENOMENA IN
CONCENTRATED SOLUTIONS OF ALKALI-METAL HALIDES
AND OF SOME OTHER SALTS.

AUTHOR- SALVINIEN, J.;BRUN, B.;MOLENAT, J.

REFERENCE- J. CHIM. PHYS. PHYS.-CHIM. BIOL., (NUM.
SPEC.), P. 19-27, 124-131, 177-188(OCT., 1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; DIFFUSION;
ELECTRIC CONDUCTIVITY; VISCOSITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELECTROLYTES; CESIUM CHLORIDES;
LITHIUM IODIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES.

473

SAMOILOVICH 70

TITLE- INTERRELATIONS OF PRESSURE, TEMPERATURE,
FILLING FACTOR, AND CONCENTRATION OF AQUEOUS
SOLUTIONS OF HYDROCHLORIC ACID AT HIGH
TEMPERATURES AND PRESSURES.

AUTHOR- SAMOILOVICH, L.A. [VSESOYUZNYJ
NAUCHNO-ISSLEDOVATEL'SKIJ INST. SINTEZA
MINERAL'NOGO SYR'YA, ALEKSANDROV (USSR)].

REFERENCE- TR. VSES. NAUCHNO-ISSLED. INST. SINT.
MINER. SYR'YA, V. 13, P. 50-54(1970).
REFERENCE. CHEM. ABSTR., V. 76, ABSTR. NO.
37645J.

SASTRY 69

TITLE- IONIC ASSOCIATION IN MIXTURES OF ELECTROLYTIC SOLUTIONS.

AUTHOR- SASTRY, G.L.N.; KRISHNAMURTY, BH. [ANDHRA UNIV., WALT AIR (INDIA). COLL. ENG.].

REFERENCE- BHAGAVANTAM, V. 1969, P. 245-252(1969).
REFERENCE. CHEM. ABSTR., V. 73, ABSTR. NO. 49132R.

SCATCHARD 70
SOLUTIONS/THERMODYNAMICS

TITLE- OSMOTIC AND ACTIVITY COEFFICIENTS FOR BINARY MIXTURES OF SODIUM CHLORIDE, SODIUM SULFATE, MAGNESIUM SULFATE, AND MAGNESIUM CHLORIDE IN WATER AT 25 DEGREES. III. TREATMENT WITH THE IONS AS COMPONENTS.

AUTHOR- SCATCHARD, G.; RUSH, R.M.; JOHNSON, J.S. [OAK RIDGE NATIONAL LAB., TENN. (USA); MASSACHUSETTS INST. OF TECH., CAMBRIDGE (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 74 (21), P. 3786-3796(1970).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; MIXTURES; MAGNESIUM CHLORIDES; MAGNESIUM SULFATES; SODIUM CHLORIDES; SODIUM SULFATES.

SCHONERT 66
SOLUTIONS/MISC.

TITLE- APPROXIMATION OF DIFFUSION COEFFICIENTS IN ELECTROLYTIC SOLUTIONS WITH THREE KINDS OF IONS.

AUTHOR- SCHONERT, H. [TECHNISCHE HOCHSCHULE AACHEN

(F. R. GERMANY)].

REFERENCE- Z. PHYSIK. CHEM., V. 51 (3-4), P.
196-207(1966).

DESCRIPTORS- THEORETICAL TREATMENTS; TABLES;
DIFFUSION; ELEVATED CONCENTRATION; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

477

SCHWABE 71
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- PROPERTIES OF CONCENTRATED QUATERNARY
AMMONIUM SALT SOLUTIONS.

AUTHOR- SCHWABE, K.

REFERENCE- Z. PHYS. CHEM. (LEIPZIG), V. 247 (3-4),
P. 113-131(1971).

DESCRIPTORS- REVIEWS; GRAPHS; APPARENT MOLAL VOLUME;
ELECTRIC CONDUCTIVITY; PARTIAL MOLAL VOLUME;
THERMODYNAMICS; ACTIVITY COEFFICIENT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; ELECTROLYTES; MIXTURES.

478

SEIFER 71

TITLE- SOUND VELOCITY AND ADIABATIC COMPRESSIBILITY
COEFFICIENT OF STRONG ELECTROLYTE AQUEOUS
SOLUTION UNDER 1200 BAR PRESSURE.

AUTHOR- SEIFER, A.L.; RAZUMIKHIN, V.N.; SEKOYAN,
S.S.; PAZYNICH, R.A.; NEVOLINA, N.A.

REFERENCE- TEPLOFIZ. SVOISTVA VESHCHESTV MATER., NO.
3, P. 171-177(1971). REFERENCE. CHEM. ABSTR.,
V. 77, ABSTR. NO. 39475Y.

479

SELECKI 70C

TITLE- STRUCTURAL DIFFERENCES OF CERTAIN INORGANIC

SALT SOLUTIONS IN NATURAL AND HEAVY WATER.

AUTHOR- SELECKI, A.; TYMINSKI, B.; CHMIELEWSKI, A.G.
[WARSAW TECH. UNIV., WARSAW (POLAND). DEP.
NUCL. CHEM. ENG.].

REFERENCE- ISOTOPENPRAXIS, V. 6 (4), P.
138-142(1970). REFERENCE. CHEM. ABSTR., V. 73,
ABSTR. NO. 70091M.

480

SEMAVIN 66

TITLE- WATER VAPOR PRESSURES OVER INORGANIC SALT
SOLUTIONS. (IN RUSSIAN).

AUTHOR- SEMAVIN, B.A.

REFERENCE- TR. URAL. POLITEKH. INST., NO. 152, P.
111-119(1966). REFERENCE. CHEM. ABSTR., V. 67,
ABSTR. NO. 26259Z.

481

SERGEEVA 70

TITLE- CALORIMETRIC APPARATUS FOR MEASURING THE
HEATS OF DISSOLUTION OF SALTS IN WATER AT
VARIOUS TEMPERATURES. (IN RUSSIAN).

AUTHOR- SERGEEVA, R.I.; DRAKIN, S.I.; KARAPET'YANTS,
M.KH.

REFERENCE- TR. MOSK. KHIM.-TEKHNOL. INST., NO. 67, P.
18-22(1970). REFERENCE. CHEM. ABSTR., V. 75,
ABSTR. NO. 123082J.

482

SHAKHOV 72

TITLE- CALCULATION OF THE DENSITY OF AQUEOUS SALT
SOLUTIONS USING DIGITAL COMPUTERS. (IN
RUSSIAN).

AUTHOR- SHAKHOV, YU.A.

REFERENCE- TR. VSES. NAUCHNO-ISSLED. PROEKTN. INST.
GALURGII, V. 1972, P. 227-234(1972).

483

SHATKAY 68

TITLE- INDIVIDUAL ACTIVITY OF CALCIUM IONS IN PURE SOLUTIONS OF CALCIUM CHLORIDE AND IN MIXTURES.

AUTHOR- SHATKAY, A. [WEIZMANN INST. OF SCIENCE, REHOVOTH (ISRAEL)].

REFERENCE- BIOPHYS. J., V. 8 (8), P. 912-919(1968).
REFERENCE. CHEM. ABSTR., V. 69, ABSTR. NO. 90473H.

484

VILCU 70B
SOLUTIONS/THERMODYNAMICS

TITLE- CRYOMETRY OF ELECTROLYTE SOLUTIONS. (IN ROMANIAN).

AUTHOR- VILCU, R.

REFERENCE- STUD. CERCET. CHIM., V. 18 (4), P. 367-385(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES; MELTING POINT; THERMODYNAMICS; ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; SODIUM BROMIDES; SODIUM CHLORIDES; MIXTURES.

485

VOITKO 72

TITLE- THERMOPHYSICAL CHARACTERISTICS OF AQUEOUS CALCIUM CHLORIDE SOLUTIONS.

AUTHOR- VOITKO, A.M.; KOVALEVA, R.I.; TSAPLIN, R.A.

REFERENCE- NOVYE METODY TEKHNL. KONTR. KONSERV. VINODEL. PROIZVOD., V. 1972, P. 172-177(1972).
REFERENCE. CHEM. ABSTR., V. 78, ABSTR. NO.

486

VORONINA 73

TITLE- ACTIVITY COEFFICIENTS IN MAGNESIUM CHLORIDE,
CALCIUM CHLORIDE, AND BARIUM CHLORIDE AQUEOUS
SOLUTIONS.

AUTHOR- VORONINA, L.A.;RABINOVICH, V.A.

REFERENCE- GERTSENOVSK. CHTENIYA. KHIM., NAUCHN.
DOKL., NO. 1, P. 67-74(1973). REFERENCE. CHEM.
ABSTR., V. 81, ABSTR. NO. 141773P.

487

WALDEN 70

TITLE- NATURAL-CONVECTION-CONTROLLED DISSOLUTIONS OF
POTASSIUM CHLORIDE IN WATER/POTASSIUM CHLORIDE
SOLUTION SATURATED AND UNSATURATED WITH SODIUM
CHLORIDE.

AUTHOR- WALDEN, J.;MC CUE, A.P.;CHEN, H.T. [FMC
CORP., PRINCETON, N.J. (USA)].

RAU, J.L. (ED.) [N. OHIO GEOL. SOC.,
CLEVELAND, OHIO (USA)].

REFERENCE- SYMP. SALT, 3RD. 1970, V. 1, P. 371-382.
REFERENCE. CHEM. ABSTR., V. 75, ABSTR. NO.
10948C.

488

WENDT 69

TITLE- DIFFUSION IN TERNARY AQUEOUS SALINE
SOLUTIONS.

AUTHOR- WENDT, R.P.;SHAMIM, M. [LOYOLA UNIV., NEW
ORLEANS, LA. (USA)].

REFERENCE- DIFFUSION IN TERNARY AQUEOUS SALINE
SOLUTIONS. NO. 504, U.S. OFF. SALINE WATER,
RES. DEV. PROG. REP., 1969, 67 P.. REFERENCE.
CHEM. ABSTR., V. 73, ABSTR. NO. 18661H.

WIERSEMA 69
SOLUTIONS/MISC.

TITLE- DIFFUSION IN TERNARY SYSTEM CONSISTING OF TWO ISOTOPIC FORMS OF A SUBSTANCE IN SOLUTION. II. EXPERIMENTS WITH THE SYSTEM $\text{Na}(^{36})\text{Cl}-\text{NaCl}-\text{H}_2\text{O}$ AT 25 DEGREES C.

AUTHOR- WIERSEMA, Y.; OVERBEEK, J. TH. G.

REFERENCE- PROC. K. NED. AKAD. WET., SER. B, V. 72 (1), P. 29-39(1969).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS; DIFFUSION; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; SODIUM CHLORIDES.

WIRTH 688
SOLUTIONS/VOLUMETRIC

TITLE- VOLUME CHANGES ON MIXING SOLUTIONS OF LITHIUM CHLORIDE, SODIUM CHLORIDE, LITHIUM SULFATE, AND SODIUM SULFATE AT CONSTANT IONIC STRENGTH.

AUTHOR- WIRTH, H. E.; MILLS, W. L. [KROTCHEVSKY KIEV INSTITUTE (USSR); SYRACUSE UNIV., N. Y. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. ENG. DATA, V. 13 (1), P. 102-107(1968).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; APPARENT MOLAL VOLUME; MIXING VOLUME; DILATOMETERS; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; ELECTROLYTES; MIXTURES; LITHIUM CHLORIDES; SODIUM CHLORIDES; SODIUM SULFATES.

WOOD 71
SOLUTIONS/MISC.

TITLE- THERMAL DIFFUSION OF 1/1 ELECTROLYTES IN ORDINARY AND HEAVY WATER.

AUTHOR- WOOD, C.D.; HAWKSWORTH, W.A.

REFERENCE- J. S. AFR. CHEM. INST., V. 24 (9), P.
170-176(1971).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
THERMAL DIFFUSION; ENTHALPY; TRANSPORT
PROPERTIES; MODERATE CONCENTRATION; STANDARD
TEMPERATURE; ELECTROLYTES; CESIUM CHLORIDES;
HEAVY WATER; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; WATER.

492

WOOD 75B
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF MIXING AQUEOUS ELECTROLYTES. XIV.
CHARGE-ASYMMETRIC MIXTURE OF THREE SALTS AT
CONSTANT EQUIVALENTS PER KILOGRAM. LITHIUM
CHLORIDE-SODIUM CHLORIDE-MAGNESIUM CHLORIDE.

AUTHOR- WOOD, R.H.; FALCONE, M.V. [DELAWARE UNIV.,
NEWARK (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 79 (15), P.
1540-1542(1975).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; TABLES; MIXING HEAT; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; MIXTURES; LITHIUM CHLORIDES;
MAGNESIUM CHLORIDES; SODIUM CHLORIDES.

493

ZENKEVICH 68
SOLUTIONS/MISC.

TITLE- BEHAVIOR OF CALCIUM COMPOUNDS IN A
SINGLE-PASS BOILER WITH SUPERCRITICAL
PARAMETERS.

AUTHOR- ZENKEVICH, YU.V.; VASILENKO,
G.V.; KOPELIOVICH, A.M.

REFERENCE- TEPLDENERGETIKA, V. 15 (4), P.
41-46(1968).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
SOLUBILITY; VAPOR SOLUBILITY; ELEVATED
PRESSURE; ELEVATED TEMPERATURE; HIGH
TEMPERATURE; ELECTROLYTES; CALCIUM CARBONATES;

CALCIUM CHLORIDES; CALCIUM SULFATES.

494

ZEREN 69
SOLUTIONS/THERMODYNAMICS

TITLE- DISSOCIATION OF STRONG ELECTROLYTES.

AUTHOR- ZEREN, A.; AYBAR, S. [ANKARA UNIV. (TURKEY).
DEPT. OF PHYSICAL CHEMISTRY].

REFERENCE- COMMUN. FAC. SCI. UNIV. ANKARA, SER. B,
V. 16 (7), P. 79-90(1969).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; DISSOCIATION;
ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; ELECTROLYTES; CESIUM
CHLORIDES; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

495

ZOMOVA 75
SOLUTIONS/MISC.

TITLE- SOLUBILITY IN THE TETRASODIUM
PYROPHOSPHATE-DISODIUM DIHYDROGEN
PYROPHOSPHATE-SODIUM CHLORIDE-WATER SYSTEM.

AUTHOR- ZOMOVA, K.S.

REFERENCE- ZH. PRIKL. KHIM. (LENINGRAD), V. 48 (1),
P. 117-122(1975).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
PHASE DIAGRAMS; SOLUBILITY; HIGH CONCENTRATION;
STANDARD PRESSURE; LOW TEMPERATURE; MODERATE
TEMPERATURE; MIXTURES; PHOSPHATES; SODIUM
CHLORIDES.

496

DARNELL 68B
SOLUTIONS/VOLUMETRIC

TITLE- EFFECT OF STRUCTURE-MAKING AND-BREAKING
SOLUTES ON THE TEMPERATURE OF MAXIMUM DENSITY
OF WATER.

AUTHOR- DARNELL, A.J.;GREYSON, J. [NORTH AMERICAN
ROCKWELL CORP., CANOGA PARK, CALIF. (USA)].

REFERENCE- J. PHYS. CHEM., V. 72 (8), P.
3021-3025(1968).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; DENSITY;
DILATOMETERS; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; ELECTROLYTES; TETRAMETHYLAMMONIUM
CHLORIDES.

497

EL-SABEH 66
SOLUTIONS/MISC.

TITLE- THE EFFECT OF FREQUENCY ON IONIC SOLUTIONS.

AUTHOR- EL-SABEH, S.H.M. [FACULTY OF ENGINEERING,
ALEXANDRIA, U.A.R., PHYSICS DEPARTMENT].

REFERENCE- PHYS. LETT., V. 23 (11), P.
663-664(1966).

DESCRIPTORS- ELECTRIC CONDUCTIVITY; POTASSIUM
CHLORIDES; EXPERIMENTAL RESULTS; LOW
CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; STANDARD
PRESSURE.

498

EPIFANOVA 73
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- VISCOSITY OF SALT SOLUTIONS SIMULATING
NATURAL SOLUTIONS. (IN RUSSIAN).

AUTHOR- EPIFANOVA, S.S.;KAPYRINA, YU.D.;KAPTSOVA,
T.N.;KORCHEMSKAYA, K.M.;KRASIL'NIKOVA,
R.G.;LIKHACHEVA, O.A.;MAKAROV, A.V.;MAKSAREVA,
T.S.;MAKSIMOVA, I.N.;FOKEEV, V.M.

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED. GEOL. RAZVED.,
V. 16, P. 154-156(1973).

DESCRIPTORS- POTASSIUM CHLORIDES; VISCOSITY;
EXPERIMENTAL RESULTS; SODIUM CHLORIDES; SODIUM
SULFATES; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; LOW TEMPERATURE; MODERATE
TEMPERATURE; DENSITY; TABLES; GRAPHS.

499

AKSMANOVIC 70
SOLUTIONS/VOLUMETRIC

TITLE- DENSITY OF AQUEOUS SOLUTION OF MAGNESIUM
CHLORIDE AND CALCIUM CHLORIDE.

AUTHOR- AKSMANOVIC, M.; KREY, J. [TECHNISCHE UNIV.,
BRAUNSCHWEIG (F.R. GERMANY)].

REFERENCE- CHEM.-ING.-TECH., V. 42 (24), P.
1568-1570(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; DENSITY;
PYCNOMETERS; LOW TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; CALCIUM
CHLORIDES; MAGNESIUM CHLORIDES.

500

ALLNATT 70
SOLUTIONS/THERMODYNAMICS

TITLE- REMARKS ON THE MAYER IONIC SOLUTION THEORY.

AUTHOR- ALLNATT, A.R. [WESTERN ONTARIO UNIV., LONDON
(CANADA)].

REFERENCE- MOL. PHYS., V. 18 (3), P. 409-411(1970).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; ACTIVITY COEFFICIENT.

501

AUTENRIETH 70
SOLUTIONS/MISC.

TITLE- STABLE AND METASTABLE SOLUBILITY EQUILIBRIUM
OF KIESERITE 5/4-HYDRATE, KAINITE, LEONITE,
GLASERITE, AND LANGBEINITE IN KCL AND NA CL
SATURATED SOLUTION OF PENTANUMEROUS SYSTEM OF
SALTS OF MARINE SALT DEPOSITS AND SOME
CONSEQUENCES FOR THE TREATMENT OF SYLVITE..
(IN GERMAN).

AUTHOR- AUTENRIETH, H. [KALIFORSCHUNGS-INSTITUT E.
V., HANOVER (F. R. GERMANY)].

REFERENCE- REV. CHIM. MINER., V. 7 (2), P.
217-229(1970).

DESCRIPTORS- GRAPHS; TABLES; SOLUBILITY; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; MINERALS;
MAGNESIUM CHLORIDES; MAGNESIUM SULFATES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

502

AMDUR 69
SOLUTIONS/THERMODYNAMICS

TITLE- DETERMINATION OF WATER ACTIVITIES OF DILUTE
ELECTROLYTE SOLUTIONS.

AUTHOR- AMDUR, S. [ISRAEL ATOMIC ENERGY COMMISSION,
YAVNE. SOREQ NUCLEAR RESEARCH CENTER].

REFERENCE- J. PHYS. CHEM., V. 73 (4), P.
1163-1164(1969).

DESCRIPTORS- TABLES; ACTIVITY COEFFICIENT;
EXPERIMENTAL RESULTS; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; STANDARD PRESSURE;
STANDARD TEMPERATURE; POTASSIUM CHLORIDES;
SODIUM CHLORIDES; WATER.

503

ANGELL 70
SOLUTIONS/MISC.

TITLE- GLASS FORMING COMPOSITION REGION AND GLASS
TRANSITION TEMPERATURES FOR AQUEOUS ELECTROLYTE
SOLUTIONS.

AUTHOR- ANGELL, C.A.; SARE, E.J. [PURDUE UNIV.,
LAFAYETTE, IND. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. PHYS., V. 52 (3), P.
1058-1068(1970).

DESCRIPTORS- GRAPHS; PHASE DIAGRAMS; GLASS
TRANSITION TEMPERATURE; THERMODYNAMICS; HIGH
CONCENTRATION; LOW TEMPERATURE; MODERATE
TEMPERATURE; ELECTROLYTES; IONS; CALCIUM
CHLORIDES; LITHIUM CHLORIDES; MAGNESIUM
CHLORIDES.

504

BACKLUND 71
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY OF THE ACETATE ION IN AQUEOUS SODIUM
CHLORIDE SOLUTION.

AUTHOR- BACKLUND, S. [AABO AKADEMI (FINLAND). DEPT.
OF PHYSICAL CHEMISTRY].

REFERENCE- ACTA CHEM. SCAND., V. 25 (6), P.
2070-2080(1971).

DESCRIPTORS- GRAPHS; ELECTROMOTIVE FORCE; ACTIVITY
COEFFICIENT; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; SODIUM CHLORIDES; SODIUM ACETATES.

505

BAKEEV 73
SOLUTIONS/MISC.

TITLE- THE ADDITIVITY RULE IN CRYOSCOPIC STUDIES ON
SOLUTIONS.

AUTHOR- BAKEEV, M.I. [ACADEMY OF SCIENCES OF THE
KAZAKH SSR (UZ)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 47 (1), P.
47-49(1973).

DESCRIPTORS- REVIEWS; GRAPHS; MELTING POINT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; CALCIUM CHLORIDES; MAGNESIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

506

BATES 70
SOLUTIONS/THERMODYNAMICS

TITLE- IONIC HYDRATION AND SINGLE ION ACTIVITIES IN
UNASSOCIATED CHLORIDES AT HIGH IONIC STRENGTHS.

AUTHOR- BATES, R.G.; STAPLES, B.R.; ROBINSON, R.A.
[FLORIDA UNIV., GAINESVILLE (USA); NATIONAL
BUREAU OF STANDARDS, WASHINGTON, D.C. (USA);
STATE UNIV. OF NEW YORK, BINGHAMTON (USA)].

REFERENCE- ANAL. CHEM., V. 42 (8), P. 867-871(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE; IONS;
BARIUM CHLORIDES; CALCIUM CHLORIDES; CESIUM
CHLORIDES; HYDROCHLORIC ACID; LITHIUM
CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

507

BUTLER 70B
SOLUTIONS/THERMODYNAMICS

TITLE- POTENTIOMETRIC STUDIES OF MULTICOMPONENT
ACTIVITY COEFFICIENTS USING THE LANTHANUM
FLUORIDE MEMBRANE ELECTRODE.

AUTHOR- BUTLER, J.N.; HUSTON, R. [TYCO LABS., INC.,
WALTHAM, MASS. (USA)].

REFERENCE- ANAL. CHEM., V. 42 (12), P.
1308-1311(1970).

DESCRIPTORS- GRAPHS; TABLES; ELECTROMOTIVE FORCE;
ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; SODIUM CHLORIDES; SODIUM FLUORIDES.

508

BUTLER 67
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENT MEASUREMENTS IN AQUEOUS
NaCl-LiCl AND NaCl-KCl ELECTROLYTES USING
SODIUM AMALGAM ELECTRODES.

AUTHOR- BUTLER, J.N.; HUSTON, R.; HSU, P.T. [TYCO
LABS., INC., WALTHAM, MASS. (USA)].

REFERENCE- J. PHYS. CHEM., V. 71 (10), P.
3294-3300(1967).

DESCRIPTORS- GRAPHS; TABLES; ELECTROMOTIVE FORCE;
ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

509

BUTLER 67B
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENT MEASUREMENTS IN AQUEOUS
SODIUM CHLORIDE-SODIUM SULFATE ELECTROLYTES
USING SODIUM AMALGAM ELECTRODES.

AUTHOR- BUTLER, J.N.;HSU, P.T.;SYNNOTT, J.C. [TYCO
LABS., INC., WALTHAM, MASS. (USA)].

REFERENCE- J. PHYS. CHEM., V. 71 (4), P.
910-914(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; STANDARD TEMPERATURE; SODIUM
CHLORIDES; SODIUM SULFATES.

510

BAHE 72
SOLUTIONS/THERMODYNAMICS

TITLE- RELATIVE PARTIAL MOLAR ENTHALPIES AND HEATS
OF DILUTION OF ELECTROLYTES IN WATER.

AUTHOR- BAHE, L.W. [WISCONSIN UNIV., MILWAUKEE
(USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 76, (11), P.
1608-1611(1972).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
EMPIRICAL EQUATIONS; GRAPHS; TABLES; DILUTION
HEAT; PARTIAL MOLAL ENTHALPY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; ELECTROLYTES; HYDROCHLORIC ACID;
LITHIUM BROMIDES; LITHIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; SODIUM BROMIDES;
SODIUM CHLORIDES; SODIUM HYDROXIDES.

511

BUTLER 67C
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENT MEASUREMENTS IN AQUEOUS
NACL-CACL2 AND NACL-MGCL2 ELECTROLYTES USING
SODIUM AMALGAM ELECTRODES.

AUTHOR- BUTLER, J.N.;HUSTON, R. [TYCO LABS., INC.,
WALTHAM, MASS. (USA)].

REFERENCE- J. PHYS. CHEM., V. 71 (13), P.
4479-4485(1967).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
EQUILIBRIUM CONSTANT; ACTIVITY COEFFICIENT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; STANDARD TEMPERATURE;
CALCIUM CHLORIDES; MAGNESIUM CHLORIDES; SODIUM
CHLORIDES.

512

BUTLER 70
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY MEASUREMENTS USING A
POTASSIUM-SELECTIVE LIQUID ION EXCHANGE
ELECTRODE.

AUTHOR- BUTLER, J.N.; HUSTON, R. [TYCO LABS., INC.,
WALTHAM, MASS. (USA)].

REFERENCE- ANAL. CHEM., V. 42 (6), P. 676-679(1970).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

513

BOGATYKH 66
SOLUTIONS/MISC.

TITLE- SURFACE TENSION OF LI CHLORIDE, LI BROMIDE,
AND CA CHLORIDE AQUEOUS SOLUTIONS UNDER
CONDITIONS OF GAS DRYING.

AUTHOR- BOGATYKH, S.A.; EVNOVICH, I.D.; SIDOROV, V.M.

REFERENCE- ZH. PRIKL. KHIM., V. 39 (11), P.
2590-2591(1966).

DESCRIPTORS- TABLES; SURFACE TENSION; EXPERIMENTAL
RESULTS; HIGH CONCENTRATION; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
CALCIUM CHLORIDES; LITHIUM BROMIDES; LITHIUM
CHLORIDES.

BRAGG 69
SOLUTIONS/THERMODYNAMICS

TITLE- MEAN ACTIVITY COEFFICIENT OF CALCIUM CHLORIDE
IN MIXED SOLUTIONS.

AUTHOR- BRAGG, J. [MELBOURNE UNIV., PARKVILLE
(AUSTRALIA)].

REFERENCE- AUST. J. CHEM., V. 22 (2), P.
2467-2470(1969).

DESCRIPTORS- TABLES; ELECTROMOTIVE FORCE;
EXPERIMENTAL RESULTS; ACTIVITY COEFFICIENT;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
STANDARD TEMPERATURE; CALCIUM CHLORIDES;
POTASSIUM CHLORIDES; POTASSIUM NITRATES; SODIUM
CHLORIDES.

BROMLEY 68
SOLUTIONS/THERMODYNAMICS

TITLE- HEAT CAPACITY OF SEA WATER SOLUTIONS.

AUTHOR- BROMLEY, L.A. [CALIFORNIA UNIV., BERKELEY
(USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 13, (1), P.
60-62(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
APPARENT MOLAL SPECIFIC HEAT; PARTIAL MOLAL
SPECIFIC HEAT; SPECIFIC HEAT; INFINITE
DILUTION; ELEVATED CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; SEA WATER; SODIUM CHLORIDES.

BROMLEY 70
SOLUTIONS/THERMODYNAMICS

TITLE- HEAT CAPACITIES AND ENTHALPIES OF SEA SALT
SOLUTIONS TO 200 DEGREES.

AUTHOR- BROMLEY, L.A.; DIAMOND, A.E.; SALAMI,
E.; WILKINS, D.G. [CALIFORNIA UNIV., BERKELEY
(USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 15, P.
246-253(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ENTHALPY; SPECIFIC HEAT; MEASURING INSTRUMENTS;
INFINITE DILUTION; ELEVATED CONCENTRATION;
SATURATED VAPOR; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SEA WATER.

517

BRUN 69
SOLUTIONS/MISC.

TITLE- EFFECT OF LARGE IONS ON THE STRUCTURE OF
WATER.

AUTHOR- BRUN, B.; SERVENT, M.; SALVINTEN, J.
[LABORATOIRE DE CHIMIE PHYSIQUE, FAC VILE DES
SCIENCES, PLACE EUGENE-BATAILLON,
34-MONTPELLIER, HERAULT].

REFERENCE- C.R. ACAD. SCI., SER. C, V. 269 (1), P.
1-4(1969).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
DIFFUSION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; CESIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
IODIDES; TETRAALKYLAMMONIUM COMPOUNDS.

518

CALDWELL 75
SOLUTIONS/MISC.

TITLE- PRESSURE DEPENDENCE OF THERMAL AND FICKIAN
DIFFUSION IN 0.1 N NaCl.

AUTHOR- CALDWELL, D.R. [OREGON STATE UNIV.,
CORVALLIS (USA). SCHOOL OF OCEANOGRAPHY].

REFERENCE- J. PHYS. CHEM., V. 79 (17), P.
1885-1888(1975).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; DIFFUSION; THERMAL
DIFFUSION; MEASURING INSTRUMENTS; ELEVATED
CONCENTRATION; STANDARD PRESSURE; MODERATE
PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW
TEMPERATURE; SODIUM CHLORIDES.

CASSEL 74
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF MIXING AQUEOUS ELECTROLYTES. XI.
CHARGE-ASYMMETRIC LIMITING LAW AT LOW
CONCENTRATIONS. BARIUM CHLORIDE WITH SODIUM
CHLORIDE AND SODIUM SULFATE WITH SODIUM
CHLORIDE.

AUTHOR- CASSEL, R.B.;WOOD, R.H. [DELAWARE UNIV.,
NEWARK (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 78 (19), P.
1924-1927(1974).

DESCRIPTORS- GRAPHS; TABLES; MIXING HEAT; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; BARIUM
CHLORIDES; SODIUM CHLORIDES; SODIUM SULFATES.

CHANU 73
SOLUTIONS/MISC.

TITLE- HEAT TRANSFER IN IONIC MEDIA-APPLICATION TO
POTASSIUM CHLORIDE AND HCL AQUEOUS SOLUTION AT
25 AND 35 DEGREES.

AUTHOR- CHANU, J.;WEILL, M.E. [PARIS-5 UNIV., 75
(FRANCE)].

REFERENCE- REV. ROUM. CHIM., V. 18 (9), P.
1513-1519(1973).

DESCRIPTORS- GRAPHS; DIFFUSION; THERMAL DIFFUSION;
MEASURING INSTRUMENTS; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
MODERATE TEMPERATURE; HYDROCHLORIC ACID;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

CHRISTENSON 71
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENTS OF POTASSIUM CHLORIDE
IN SEVERAL MIXED ELECTROLYTE SOLUTIONS AT 25

DEGREES.

AUTHOR- CHRISTENSON, P.G.; GIESKES, J.M. [SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIF. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 16 (4), P. 398-400(1971).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES; ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; BARIUM CHLORIDES; CALCIUM CHLORIDES; MAGNESIUM CHLORIDES; MAGNESIUM SULFATES; POTASSIUM CHLORIDES; POTASSIUM SULFATES.

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CHRISTENSON 73
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENTS OF HCL, NACL AND KCL IN SEVERAL MIXED ELECTROLYTE SOLUTIONS AT 25 DEGREES.

AUTHOR- CHRISTENSON, P.G. [SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIF. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 18 (3), P. 286-288(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; BARIUM CHLORIDES; CALCIUM CHLORIDES; HYDROCHLORIC ACID; MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

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CRAWFORD 70
SOLUTIONS/MISC.

TITLE- CONDUCTIVITY OF SODIUM CHLORATE-SODIUM CHLORIDE-WATER SYSTEM AT HIGH TEMPERATURE.

AUTHOR- CRAWFORD, R.A.; DARLINGTON, W.B.; KLIEVER, L.B. [PPG INDUSTRIES, INC., BARBERTON, OH. (USA). RESEARCH DEPT., INDUSTRIAL CHEMICALS DIVISION].

REFERENCE- J. ELECTROCHEM. SOC., V. 117 (2), P. 279-282(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ELECTRIC CONDUCTIVITY; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; MODERATE TEMPERATURE;
SODIUM CHLORIDES; SODIUM CHLORATES.

524

CREEKMORE 69
SOLUTIONS/MISC.

TITLE- NUCLEAR MAGNETIC RESONANCE DETERMINATION OF
HYDRATION NUMBER OF ELECTROLYTES IN
CONCENTRATED AQUEOUS SOLUTIONS.

AUTHOR- CREEKMORE, R.W.; REILLEY, C.N. [NORTH
CAROLINA UNIV., CHAPEL HILL (USA). DEPT. OF
CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 73 (5), P.
1563-1568(1969).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
HYDRATION NUMBER; NUCLEAR MAGNETIC RESONANCE;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; CALCIUM CHLORIDES; CESIUM
CHLORIDES; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM BROMIDES; SODIUM CHLORIDES;
TETRAALKYLAMMONIUM COMPOUNDS.

525

DARNELL 68
SOLUTIONS/VOLUMETRIC

TITLE- THE TEMPERATURE OF MAXIMUM DENSITY OF HEAVY
WATER SOLUTIONS.

AUTHOR- DARNELL, A.J.; GREYSON, J. [NORTH AMERICAN
ROCKWELL CORP., CANOGA PARK, CALIF. (USA)].

REFERENCE- J. PHYS. CHEM., V. 72 (8), P.
3032-3034(1968).

DESCRIPTORS- HEAVY WATER; EXPERIMENTAL RESULTS;
DENSITY; DILATOMETERS; LITHIUM CHLORIDES;
SODIUM CHLORIDES; POTASSIUM CHLORIDES; CESIUM
CHLORIDES; LOW TEMPERATURE; ELECTROLYTES;
STANDARD PRESSURE; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; TABLES.

526

DAUM 73
SOLUTIONS/MISC.

TITLE- BIPOLAR CURRENT METHOD FOR DETERMINATION OF
SOLUTION RESISTANCE.

AUTHOR- DAUM, P.H.; NELSON, D.F. [NORTHERN ILLINOIS
UNIV., DEKALB (USA)].

REFERENCE- ANAL. CHEM., V. 45 (3), P. 463-70(1973).

DESCRIPTORS- POTASSIUM CHLORIDES; MEASURING
INSTRUMENTS; STANDARD TEMPERATURE; STANDARD
PRESSURE; GRAPHS; ELECTRIC CONDUCTIVITY.

527

DOUHERET 70
SOLUTIONS/MISC.

TITLE- DETERMINATION OF DIFFUSION POTENTIAL BY MEANS
OF GALVANIC CELLS WITH TRANSPORT CONTAINING A
MEMBRANE ELECTRODE. II. EVALUATION OF DATA AND
APPLICATION TO THE GALVANIC CELL/GLASS//HCL
SOLN./HG₂CL₂, HG..

AUTHOR- DOUHERET, G. [LABORATOIRE DE CHIMIE
GENERALE, 17 TER, RUE PAUL-COLLOMP,
63-CLERMON-FERRAND (FRANCE). FACULTE DES
SCIENCES].

REFERENCE- BULL. SOC. CHIM. FR., NO. 6, P.
2093-2108(1970).

DESCRIPTORS- GRAPHS; TABLES; DIFFUSION;
ELECTROMOTIVE FORCE; LOW CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; HYDROCHLORIC ACID; POTASSIUM
CHLORIDES.

528

DOUHERET 70B
SOLUTIONS/MISC.

TITLE- DIFFUSION POTENTIALS BETWEEN SATURATED
AQUEOUS SOLUTIONS OF POTASSIUM CHLORIDE AND
STANDARD AQUEOUS SOLUTIONS.

AUTHOR- DOUHERET, G.; DURANTHON, G. [LABORATOIRE DE
CHIMIE GENERALE, 17 TER, RUE PAUL-COLLOMP,
63-CLERMON-FERRAND (FRANCE). FACULTE DES

SCIENCES].

REFERENCE- C.R. ACAD. SCI., SER. C, V. 270 (3), P.
261-264(1970).

DESCRIPTORS- GRAPHS; TABLES; DIFFUSION; LOW
CONCENTRATION; MODERATE CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; BORATES; HYDROCHLORIC ACID;
POTASSIUM CHLORIDES.

529

DOWNES 74
SOLUTIONS/THERMODYNAMICS

TITLE- OSMOTIC AND ACTIVITY COEFFICIENTS FOR
MIXTURES OF POTASSIUM CHLORIDE AND STRONTIUM
CHLORIDE IN WATER AT 298.15 DEG. K..

AUTHOR- DOWNES, C.J.

REFERENCE- J. CHEM. THERMODYN., V. 6 (4), P.
317-323(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ACTIVITY
COEFFICIENT; OSMOTIC COEFFICIENT; ISOPIESTIC
MEASUREMENT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; BARIUM CHLORIDES; CALCIUM
CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM
CHLORIDES.

530

DUCLAUX 70
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- SOLUTIONS/ELECTROLYTE SOLUTIONS, ACTIVITY AND
DENSITY. (IN FRENCH).

AUTHOR- DUCLAUX, J. [ECOLE PRATIQUE DES HAUTES
ETUDES, 75-PARIS (FRANCE). CENTRE DE
MATHEMATIQUES SOCIALES ET DE STATISTIQUE].

REFERENCE- C.R. ACAD. SCI., SER. C, V. 270 (2), P.
117-119(1970).

DESCRIPTORS- TABLES; DENSITY; ACTIVITY COEFFICIENT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
SODIUM CHLORIDES.

531

DUCLAUX 70B
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- CONSTITUTION OF ELECTROLYTIC SOLUTION.
NEGATIVE PRESSURE OF WATER. (IN FRENCH).

AUTHOR- DUCLAUX, J. [ECOLE PRATIQUE DES HAUTES
ETUDES, 75-PARIS (FRANCE). CENTRE DE
MATHEMATIQUES SOCIALES ET DE STATISTIQUE].

REFERENCE- J. CHIM. PHYS. PHYS.-CHIM. BIOL., V. 67
(10), P. 1859-1863(1970).

DESCRIPTORS- TABLES; DENSITY; OSMOTIC COEFFICIENT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
ELECTROLYTES; CALCIUM CHLORIDES; POTASSIUM
IODIDES; SODIUM CHLORIDES; SULFURIC ACID; WATER.

532

DUCLAUX 70C
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- SOLUTIONS. ELECTROLYTIC SOLUTIONS/OSMOTIC
PRESSURE AND DENSITY. (IN FRENCH).

AUTHOR- DUCLAUX, J. [ECOLE PRATIQUE DES HAUTES
ETUDES, 75-PARIS (FRANCE). CENTRE DE
MATHEMATIQUES SOCIALES ET DE STATISTIQUE].

REFERENCE- C.R. ACAD. SCI., SER. C, V. 270 (15), P.
1257-1260(1970).

DESCRIPTORS- DENSITY; OSMOTIC COEFFICIENT; CALCIUM
CHLORIDES; POTASSIUM IODIDES; SODIUM CHLORIDES.

533

DUCLAUX 69B
SOLUTIONS/VOLUMETRIC

TITLE- SOLUTIONS/CORRESPONDING STATES IN SOLUTIONS
OF ELECTROLYTES. (IN FRENCH).

AUTHOR- DUCLAUX, J. [ECOLE PRATIQUE DES HAUTES
ETUDES, 75-PARIS (FRANCE). CENTRE DE
MATHEMATIQUES SOCIALES ET DE STATISTIQUE].

REFERENCE- C.R. ACAD. SCI., SER. C, V. 269 (15), P.
785-787(1969).

DESCRIPTORS- GRAPHS; PHYSICAL PROPERTIES; HIGH
CONCENTRATION; SODIUM CHLORIDES.

534

DUKHANIN 73
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- EFFECT OF THE MAGNETIC TREATMENT OF AQUEOUS
SOLUTIONS OF CALCIUM CHLORIDE ON THE DEGREE OF
ION HYDRATION STUDIED BY AN ULTRASONIC METHOD.

AUTHOR- DUKHANIN, V.S.; KLYUCHNIKOV, N.G. [LENIN
MOSCOW STATE PEDAGOGIC INSTITUTE (USSR)].

REFERENCE- ZH. PRIKL. KHIM. (LENINGRAD), V. 46 (6),
P. 1204-1206(1973).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS;
COMPRESSIBILITY; DENSITY; HYDRATION NUMBER;
VELOCITY OF SOUND; PYCNOMETERS; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; CALCIUM CHLORIDES; MAGNETIC FIELDS.

535

LYASHCHENKO 74
SOLUTIONS/VOLUMETRIC

TITLE- SEPARATION OF VOLUME EFFECTS DURING
ELECTROLYTE DISSOLUTION IN AN AQUEOUS SOLUTION.

AUTHOR- LYASHCHENKO, A.K.

REFERENCE- ZH. FIZ. KHIM., V. 48 (5), P.
1313-1314(1974).

DESCRIPTORS- THEORETICAL TREATMENTS; APPARENT MOLAL
VOLUME; IONS.

536

SOLDANO 66
SOLUTIONS/THERMODYNAMICS

TITLE- OSMOTIC BEHAVIOR OF AQUEOUS SALT SOLUTION AT
ELEVATED TEMPERATURES. IV..

AUTHOR- SOLDANO, B.A.;BIEN, P.B. [OAK RIDGE NATIONAL
LAB., TENN. (USA)].

REFERENCE- J. CHEM. SOC., A, V. 1966 (12), P.
1825-1827(1966).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
OSMOTIC COEFFICIENT; ISOPIESTIC MEASUREMENT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
MODERATE TEMPERATURE; ELEVATED TEMPERATURE;
BARIUM CHLORIDES; CESIUM CHLORIDES; LITHIUM
CHLORIDES; MAGNESIUM SULFATES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; SODIUM SULFATES.

537

SHUKAN 74
SOLUTIONS/THERMODYNAMICS

TITLE- CALCULATION OF ACTIVITY COEFFICIENTS IN MIXED
SODIUM CHLORIDE-POTASSIUM CHLORIDE SOLUTIONS.

AUTHOR- SHUKAN, M.YA.

REFERENCE- ZH. FIZ. KHIM., V. 48 (11), P.
2883(1974).

DESCRIPTORS- ACTIVITY COEFFICIENT; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

538

TOSHIO 66
SOLUTIONS/MISC.

TITLE- RELATIVE DETERMINATIONS OF SORET COEFFICIENTS
OF ELECTROLYTES. III..

AUTHOR- TOSHIO, I.

REFERENCE- J. PHYS. CHEM., V. 70 (10), P.
3361-3363(1966).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DIFFUSION; ELECTROMOTIVE FORCE; TRANSFERENCE
NUMBER; MODERATE CONCENTRATION; STANDARD
TEMPERATURE; IONS; HYDROCHLORIC ACID; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES;
TETRAALKYLAMMONIUM COMPOUNDS.

FILATOV 75
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- CALCULATION OF THE PROPERTIES OF SOLUTION
USING A DIGITAL COMPUTER ILLUSTRATED BY THE
ELECTROLYSIS OF SODIUM CHLORIDE.

AUTHOR- FILATOV, V.P.;SHLEDOV, V.D.;TSIBIZOV,
G.V.;GARKUSHA, A.A.

REFERENCE- ZH. PRIKL. KHIM. (LENINGRAD), V. 48 (7),
P. 1649(1975).

DESCRIPTORS- DENSITY; ELECTRIC CONDUCTIVITY;
TRANSFERENCE NUMBER; SPECIFIC HEAT; SODIUM
CHLORIDES.

GORBACHEV 74C
SOLUTIONS/VOLUMETRIC

TITLE- TEMPERATURE DEPENDENCE OF HYDRATION IN
POTASSIUM CHLORIDE SOLUTION IN WATER.

AUTHOR- GORBACHEV, S.V.;KONDRAT'EV, V.P.;ANDROSOV,
V.I.

REFERENCE- ZH. FIZ. KHIM., V. 48 (5), P. 1319(1974).

DESCRIPTORS- DENSITY; EXPERIMENTAL RESULTS; ELEVATED
TEMPERATURE; POTASSIUM CHLORIDES.

GRASSMAN 68
SOLUTIONS/MISC.

TITLE- MEASUREMENT OF THE THERMAL CONDUCTIVITY OF
REFRIGERANTS AND SALT SOLUTIONS.

AUTHOR- GRASSMAN, P.;TAUSCHER, W.;CHIQUILLO, A.
[ZURICH UNIV. (SWITZERLAND). FEDERAL INSTITUTE
OF TECHNOLOGY].

REFERENCE- PROC. SYMP. THERMOPHYS. PROP. 4TH, P.

282-285(1968).

DESCRIPTORS- REVIEWS; GRAPHS; THERMAL CONDUCTIVITY;
HIGH CONCENTRATION; LOW TEMPERATURE;
ELECTROLYTES; CESIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM
BROMIDES; SODIUM CHLORIDES.

542

RUSH 68
SOLUTIONS/THERMODYNAMICS

TITLE- ONE REEVALUATION OF THE ACTIVITY COEFFICIENTS
IN THE SYSTEM $\text{NaCl-KCl-H}_2\text{O}$.

AUTHOR- RUSH, R.M.; ROBINSON, R.A. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. TENN. ACAD. SCI., V. 43 (1), P.
22-25(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

543

KESSLER 71
SOLUTIONS/THERMODYNAMICS

TITLE- STRUCTURAL EFFECTS AND HEATS OF SOLUTION OF
STRONG ELECTROLYTES.

AUTHOR- KESSLER, YU.M.; EMELIN, V.P.

REFERENCE- ZH. FIZ. KHIM., V. 45, P. 2117(1971).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS; MEASURING
INSTRUMENTS; CALORIMETERS; LOW CONCENTRATION;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
STANDARD TEMPERATURE; POTASSIUM CHLORIDES.

544

KANBOUR 71
SOLUTIONS/THERMODYNAMICS

TITLE- THE PARTIAL MOLAL HEAT CAPACITIES OF

POTASSIUM CHLORIDE, SODIUM IODATE AND RbIO₃.

AUTHOR- KANBOUR, F.I.

REFERENCE- DISS. ABSTR., V. 32B, P. 205-206(1971).

DESCRIPTORS- PARTIAL MOLAL SPECIFIC HEAT; INFINITE DILUTION; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES; POTASSIUM CHLORIDES.

545

KOKOVINA 70
SOLUTIONS/MISC.

TITLE- DIELECTRIC CONSTANT OF AQUEOUS SOLUTIONS OF MIXTURES OF ALKALI AND ALKALINE-EARTH METAL CHLORIDES AND THE STRUCTURE OF THE SOLUTIONS. (IN RUSSIAN).

AUTHOR- KOKOVINA, G.V.; SAMOILOV, O.YA.; YASTREMSKII, P.S. [AN SSSR, MOSCOW (USSR). INST. OBSCHEJ I NEORGANICHESKOJ KHIMII].

REFERENCE- ZH. STRUKT. KHIM., V. 11 (3), P. 532-534(1970).

DESCRIPTORS- GRAPHS; DIELECTRIC CONSTANT; STANDARD TEMPERATURE; BARIUM CHLORIDES; CALCIUM CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

546

GIBBARD 74
SOLUTIONS/THERMODYNAMICS

TITLE- LIQUID-VAPOR EQUILIBRIUM OF AQUEOUS SODIUM CHLORIDE FROM 298 TO 373 DEGREE K AND FROM 1 TO 6 MOL KG⁻¹, AND RELATED PROPERTIES.

AUTHOR- GIBBARD, H.F.; SCATCHARD, G.; ROUSSEAU, R.A.; CREEK, J.L. [SOUTHERN ILLINOIS UNIV., CARBONDALE (USA). DEPT. OF CHEMISTRY AND BIOCHEMISTRY].

REFERENCE- J. CHEM. ENG. DATA, V. 19 (3), P. 281-288(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; GRAPHS; TABLES; VAPOR PRESSURE; ACTIVITY COEFFICIENT; APPARENT MOLAL SPECIFIC HEAT; ENTHALPY; OSMOTIC COEFFICIENT; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD

TEMPERATURE; MODERATE TEMPERATURE; SODIUM
CHLORIDES.

547

HIDALGO 68
SOLUTIONS/THERMODYNAMICS

TITLE- METHOD FOR PREDICTING THE PROPERTIES OF
SUPERSATURATED SOLUTIONS OF THE ALKALI
CHLORIDES.

AUTHOR- HILDALGO, A.F.; ORR, C. [GEORGIA INST. OF
TECH., ATLANTA (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 13 (1), P.
49-53(1968).

DESCRIPTORS- GRAPHS; TABLES; VAPOR PRESSURE;
ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT; HIGH
CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; CESIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

548

CUKROWSKI 69
SOLUTIONS/MISC.

TITLE- DIAPHRAGM CELL METHOD FOR THERMAL AND
SELF-THERMAL DIFFUSION IN LIQUID ELECTROLYTE
SOLUTIONS.

AUTHOR- CUKROWSKI, A.S. [POLSKA AKADEMIA NAUK,
WARSAW (POLAND)].

REFERENCE- J. PHYS. CHEM., V. 73 (1), P. 6-14(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; DIFFUSION; THERMAL
DIFFUSION; MEASURING INSTRUMENTS; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; POTASSIUM CHLORIDES; SODIUM
CHLORIDES.

549

CHERNENKAYA 73
SOLUTIONS/MISC.

TITLE- THERMAL CONDUCTIVITY OF SODIUM CARBONATE,
POTASSIUM CARBONATE, POTASSIUM CHLORIDE AND
POTASSIUM SULFATE SOLUTION AT DIFFERENT
TEMPERATURES.

AUTHOR- CHERNEN'KAYA, E.I.;VERNIGORA, G.A.

REFERENCE- ZH. PRIKL. KHIM. (LENINGRAD), V. 46 (7),
P. 1603-1605(1973).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; THERMAL
CONDUCTIVITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; POTASSIUM
CARBONATES; POTASSIUM CHLORIDES; POTASSIUM
SULFATES; SODIUM CARBONATES.

550

CHERNEN'KAYA 73B
SOLUTIONS/MISC.

TITLE- EXPERIMENTAL DETERMINATION AND CALCULATION OF
THERMAL CONDUCTIVITY OF LIQUORS OF THE
AMMONIA-SODA PROCESS.

AUTHOR- CHERNEN'KAYA, E.I.;VERNIGORA, G.A.

REFERENCE- J. APPL. CHEM. USSR, V. 46 (6), P.
1224-1227(1973).

DESCRIPTORS- TABLES; THERMAL CONDUCTIVITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; CALCIUM
CHLORIDES; SODIUM CARBONATES; SODIUM CHLORIDES.

551

ENDERBY 73
SOLUTIONS/MISC.

TITLE- STRUCTURE OF AQUEOUS SOLUTIONS.

AUTHOR- ENDERBY, J.E.;HOWELLS, W.S.;HOWE, R.A.
[LEICESTER UNIV. (UK). DEPT OF PHYSICS].

REFERENCE- CHEM. PHYS. LETT., V. 21 (1), P.
109-112(1973).

DESCRIPTORS- GRAPHS; ISOTOPE EFFECTS; NEUTRON
DIFFRACTION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; ELECTROLYTES; BARIUM CHLORIDES;
HEAVY WATER; SODIUM CHLORIDES.

ERGIN 71
SOLUTIONS/MISC.

TITLE- EFFECT OF TEMPERATURE ON THE SHORT-RANGE
HYDRATION OF ALKALI METAL CATIONS AND HALIDE
ANIONS IN AQUEOUS SOLUTIONS BASED ON DATA FROM
MAGNETOCHEMICAL STUDIES. (IN RUSSIAN).

AUTHOR- ERGIN, YU.V.;KOSTROVA, L.I. [BASHKIR STATE
UNIVERSITY (USSR)].

REFERENCE- ZH. STRUKT. KHIM., V. 12 (4), P.
576-579(1971).

DESCRIPTORS- GRAPHS; TABLES; MAGNETIC
SUSCEPTIBILITY; LOW TEMPERATURE; STANDARD
TEMPERATURE; ELECTROLYTES; IONS; LITHIUM
BROMIDES; LITHIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
IODIDES; SODIUM BROMIDES; SODIUM CHLORIDES;
SODIUM IODIDES.

FEDYAINOV 70
SOLUTIONS/THERMODYNAMICS

TITLE- HEAT CAPACITY OF TWO AND THREE-COMPONENT
AQUEOUS SOLUTION OF CHLORIDES OF BERYLLIUM
SUBGROUP METALS AT 25 DEGREES C.

AUTHOR- FEDYAINOV, N.V.;VASILEV, V.A.;KARAPET'YANTS,
M.KH. [MENDELEEV MOSCOW INSTITUTE OF CHEMICAL
TECHNOLOGY (USSR)].

REFERENCE- ZH. FIZ. KHIM., V. 44 (7), P.
1026-1027(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
SPECIFIC HEAT; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; BARIUM CHLORIDES; CALCIUM
CHLORIDES; MAGNESIUM CHLORIDES.

TITLE- VISCOSITIES OF AQUEOUS SOLUTIONS OF SEVERAL
ELECTROLYTES PRESENT IN SEA WATER.

AUTHOR- FABUSS, B.M.;KOROSI, A. [MONSANTO RESEARCH
CORP., EVERETT, MASS. (USA)].

OTHMER, D.F. [POLYTECHNIC INST. OF BROOKLYN,
N.Y. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 14 (2), P.
192-197(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; DENSITY; VISCOSITY;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE; MAGNESIUM SULFATES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES; SODIUM
SULFATES.

555

FELDKAMP 68
SOLUTIONS/MISC.

TITLE- SURFACE TENSION OF AQUEOUS NACL AND SUCROSE
SOLUTIONS. (IN GERMAN).

AUTHOR- FELDKAMP, K. [INSTITUT FUR KERN UND
VERFAHRENSTECHNIK AN DER TECHNISCHEN HOCHSCHULE
BRAUNSCHWEIG (F. R. GERMANY)].

REFERENCE- CHEM.-ING.-TECH., V. 40 (11), P.
548-549(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; SURFACE TENSION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SODIUM CHLORIDES.

556

FELL 71
SOLUTIONS/MISC.

TITLE- DIFFUSION COEFFICIENTS FOR SODIUM AND
POTASSIUM CHLORIDES IN WATER AT ELEVATED
TEMPERATURES.

AUTHOR- FELL, C.J.D.;HUTCHISON, H.P. [CAMBRIDGE

UNIV. (UK)].

REFERENCE- J. CHEM. ENG. DATA, V. 16 (4), P.
427-429(1971).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DIFFUSION; ELECTRIC CONDUCTIVITY; LOW
CONCENTRATION; MODERATE CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

557

FORTES 70
SOLUTIONS/MISC.

TITLE- RELATIVE VISCOSITY OF CONCENTRATED AQUEOUS
SOLUTIONS OF ALKALINE EARTH HALIDES AT 25
DEGREES.

AUTHOR- FORTES, J.M.; MOLENAT, J. [CENTRE NATIONAL DE
LA RECHERCHE SCIENTIFIQUE, 168-HERAULT
(FRANCE). LABORATOIRE DE CHIMIE PHYSIQUE,

REFERENCE- C.R. ACAD. SCI., SER. C, V. 271 (15), P.
889-892(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS;
VISCOSITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE; BARIUM
CHLORIDES; CALCIUM CHLORIDES; LITHIUM
CHLORIDES; MAGNESIUM CHLORIDES.

558

FROMN 70
SOLUTIONS/MISC.

TITLE- IONIC MIGRATION IN CONCENTRATED SOLUTION OF
CALCIUM CHLORIDE.

AUTHOR- FROMN, M.; LANTELME, F.; CHEMLA, M. [FACULTE
DES SCIENCES DE PARIS (FRANCE). LABORATOIRE DE
ELECTROCHIMIE].

REFERENCE- BULL. SOC. CHIM. FR., V. 1970 (10), P.
3388-3391(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
TRANSFERENCE NUMBER; ISOTOPE EFFECTS; ION
MOBILITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE; IONS;
CALCIUM CHLORIDES; SODIUM CHLORIDES.

FUNK 74
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENTS AT HIGH CONCENTRATIONS
IN THE HYDROCHLORIC ACID-SODIUM CHLORIDE-WATER
SYSTEM.

AUTHOR- FUNK, E.W. [UNIVERSIDAD TECNICA DEL ESTADO,
SANTIAGO (CHILE)].

REFERENCE- IND. ENG. CHEM., PROCESS DES. DEV., V. 13
(4), P. 362-368(1974).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; HYDROCHLORIC
ACID; SODIUM CHLORIDES.

GAETA 66
SOLUTIONS/MISC.

TITLE- LOW-SHEAR HIGH-SENSITIVITY ELECTROMAGNETIC
VISCOMETER.

AUTHOR- GAETA, F.S. [INTERNATIONAL LAB. OF GENETICS
AND BIOPHYSICS, NAPLES (ITALY)].

REFERENCE- REV. SCI. INSTRUM., V. 37 (7), P.
844-849(1966).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
VISCOSITY; MEASURING INSTRUMENTS; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; SODIUM
CHLORIDES.

GAIDUKOVA 72
SOLUTIONS/THERMODYNAMICS

TITLE- INTEGRAL HEATS OF SOLUTION OF KCL IN MGCL2
SOLUTIONS AT 25 DEGREES.

AUTHOR- GAIDUKOVA, T.I.; ZDANOVSKII, A.B. [TOGLIATTI
LENINGRAD INST. OF ENGINEERING AND ECONOMICS

(USSR)].

REFERENCE- ZH. FIZ. KHIM., V. 46 (11), P.
2905-2906(1972).

DESCRIPTORS- GRAPHS; TABLES; SOLUTION HEAT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; MAGNESIUM CHLORIDES; POTASSIUM
CHLORIDES.

562

GAIDUKOVA 73
SOLUTIONS/THERMODYNAMICS

TITLE- INTEGRAL HEATS OF SOLUTION OF SODIUM
CHLORIDE-KCL-H₂O SYSTEM.

AUTHOR- GAIDUKOVA, T.I.; SHADSKII, S.V.

REFERENCE- ZH. FIZ. KHIM., V. 47 (7), P.
1863-1864(1973).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS; SOLUTION
HEAT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; POTASSIUM CHLORIDES; SODIUM
CHLORIDES.

563

GANCY 71
SOLUTIONS/MISC.

TITLE- CONDUCTANCE OF AQUEOUS ELECTROLYTE SOLUTIONS
AT HIGH PRESSURE. DATA FOR ELEVEN 1, 1
ELECTROLYTE SYSTEMS.

AUTHOR- GANCY, A.B.; BRUMMER, S.B. [TYCO LABS.,
WALTHAM, MASS. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 16 (4), P.
385-388(1971).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; ELECTRIC CONDUCTIVITY;
INFINITE DILUTION; LOW CONCENTRATION; MODERATE
CONCENTRATION; STANDARD PRESSURE; MODERATE
PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; CESIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES; POTASSIUM FLUORIDES; POTASSIUM
IODIDES; POTASSIUM NITRATES; SODIUM CHLORIDES.

564

GARDNER 71
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENTS OF ELECTROLYTES WITH PARTICULAR REFERENCE TO AQUEOUS MIXTURES OF 2-2 WITH 1-1 ELECTROLYTES.

AUTHOR- GLUECKAUF, E.; GARDNER, A.W. [ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, BERKS. (UK)].

REFERENCE- PROC. R. SOC. LONDON, SER. A, V. 321 (1971), P. 515-543 (1971).

DESCRIPTORS- REVIEWS; EXPERIMENTAL RESULTS; THEORETICAL TREATMENTS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES; CALCIUM SULFATES; SODIUM CHLORIDES.

565

GARGALLO 66
SOLUTIONS/MISC.

TITLE- MINIMA IN THE SURFACE VISCOSITY CONCENTRATION CURVES OF ELECTROLYTE SOLUTIONS.

AUTHOR- GARGALLO, L.; MAC RITCHIE, F.

REFERENCE- KOLLOID Z. Z. POLYM., V. 212 (2), P. 169 (1966).

DESCRIPTORS- GRAPHS; VISCOSITY; LOW CONCENTRATION; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; ELECTROLYTES; POTASSIUM CHLORIDES; POTASSIUM IODIDES.

566

GARNSEY 69
SOLUTIONS/VOLUMETRIC

TITLE- DETERMINATION OF ELECTROLYTE APPARENT MOLAL COMPRESSIBILITIES AT INFINITE DILUTION USING A HIGH PRECISION ULTRASONIC-VELOCIMETER.

AUTHOR- GARNSEY, R.;BOE, R.J. [MARYLAND UNIV.,
COLLEGE PARK (USA). DEPT. OF CHEMISTRY].

MAHONEY, R.;LITOVITZ, T.A. [CATHOLIC UNIV.
OF AMERICA, WASHINGTON, D.C. (USA). DEPT. OF
PHYSICS].

REFERENCE- J. CHEM. PHYS., V. 50 (12), P.
5222-5228(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; COMPRESSIBILITY;
VELOCITY OF SOUND; INFINITE DILUTION; LOW
CONCENTRATION; MODERATE CONCENTRATION; STANDARD
TEMPERATURE; ELECTROLYTES; LITHIUM CHLORIDES;
MAGNESIUM SULFATES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; SODIUM SULFATES; TETRAALKYLAMMONIUM
COMPOUNDS.

567

GEL'PERIN 69
SOLUTIONS/MISC.

TITLE- CONCENTRATION-AND TEMPERATURE-DEPENDENCE OF
THE SURFACE TENSION OF AQUEOUS SOLUTION OF SOME
INORGANIC SUBSTANCE. (IN RUSSIAN).

AUTHOR- GEL'PERIN, N.I.;GUROVICH, B.M.;DUBINCHIK,
K.KH.

REFERENCE- ZH. PRIKL. KHIM. (LENINGRAD), V. 42 (1),
P. 214-216(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; SURFACE TENSION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE; SODIUM
CHLORIDES; SODIUM HYDROXIDES; SODIUM NITRATES;
SODIUM SULFATES.

568

GIBBARD 73
SOLUTIONS/THERMODYNAMICS

TITLE- BEHAVIOR OF THE SILVER, SILVER CHLORIDE
ELECTRODE IN CONCENTRATED AQUEOUS SODIUM
CHLORIDE.

AUTHOR- GIBBARD, H.F. [SOUTHERN ILLINOIS UNIV.,
CARBONDALE (USA)].

REFERENCE- J. ELECTROCHEM. SOC., V. 120 (5), P.
624-627(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; ELECTROMOTIVE FORCE;
ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
SILVER CHLORIDES; SODIUM CHLORIDES.

569

GLASNER 74
SOLUTIONS/THERMODYNAMICS

TITLE- THERMAL EFFECTS OF NUCLEATION AND
CRYSTALLIZATION OF KBR AND KCL SOLUTION. II.
HEAT OF NUCLEATION AND THE SUPERSATURATED
SOLUTION.

AUTHOR- GLASNER, A.; TASSA, M. [HEBREW UNIV.,
JERUSALEM (ISRAEL). DEPT. OF INORGANIC AND
ANALYTICAL CHEMISTRY].

REFERENCE- ISR. J. CHEM., V. 12 (4), P.
799-816(1974).

DESCRIPTORS- GRAPHS; TABLES; THERMODYNAMICS;
ENTHALPY; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES.

570

GLIETENBERG 68
SOLUTIONS/MISC.

TITLE- PROTON DIFFUSION COEFFICIENT IN SOME AQUEOUS
SALT SOLUTIONS. (IN GERMAN).

AUTHOR- GLIETENBERG, D.; KUTSCHKER, A.; STACKELBERG,
M. [BONN UNIV. (F.R. GERMANY). INST. FUER
PHYSIKALISCHE CHEMIE].

REFERENCE- BER. BUNSENGES. PHYS. CHEM., V. 72 (4),
P. 562-565(1968).

DESCRIPTORS- GRAPHS; DIFFUSION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; IONS;
HYDROCHLORIC ACID; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; SODIUM CHLORATES.

571

GOLDBERG 72
SOLUTIONS/MISC.

TITLE- LIQUID JUNCTION POTENTIALS AND
SINGLE-ION-ACTIVITIES BY COMPUTER SIMULATION.
I. THE CONCENTRATION CELL WITH TRANSFERENCE.

AUTHOR- GOLDBERG, R.N.;FRANK, H.S. [PITTSBURGH
UNIV., PA. (USA). DEPT. OF CHEMISTRY; MELLON
INST., PITTSBURGH, PA. (USA)].

REFERENCE- J. PHYS. CHEM., V. 76 (12), P.
1758-1762(1972).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; ELECTROMOTIVE FORCE;
ELEVATED CONCENTRATION; STANDARD TEMPERATURE;
POTASSIUM CHLORIDES.

572

GONCHAROV 70
SOLUTIONS/MISC.

TITLE- SELF-DIFFUSION OF AQUEOUS SOLUTION OF LITHIUM
NA, K, CS AND AMMONIUM CHLORIDES. (IN
RUSSIAN).

AUTHOR- GONCHAROV, V.V.;YASHKICHEV, V.I.;MARKOVA,
V.G.;ALEKSEEVA, L.S.

REFERENCE- RADIOKHIMIYA, V. 12 (6), P.
905-906(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DIFFUSION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; CESIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

573

GOSMAN 68
SOLUTIONS/MISC.

TITLE- SELF DIFFUSION OF CHLORIDE IONS IN KCL
SOLUTION.

AUTHOR- GOSMAN, A. [CZECH TECHNICAL UNIVERSITY,
PRAGUE (CZ). DEPT. OF NUCLEAR CHEMISTRY].

REFERENCE- COLLECT. CZECH. CHEM. COMMUN., V. 33 (5),
P. 1480-1488(1968).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS;
DIFFUSION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; IONS; POTASSIUM CHLORIDES.

574

GHOSH 72

TITLE- PHASE EQUILIBRIUM STUDIES. ACTIVITY
COEFFICIENTS, SOLUBILITY PARAMETER, AND
APPARENT MOLAR VOLUMES OF SOLUTE IN BINARY
SYSTEM.

AUTHOR- GHOSH, D.P. [IDAHO UNIV., MOSCOW (USA)].

REFERENCE- THESIS DISS. ABSTR. INT. B, V. 33 (5), P.
2046(1972).

575

GOPAL 70

TITLE- NEGATIVE SV-COEFFICIENT IN MASSON'S EQUATION
FOR SOME COMMON ELECTROLYTES IN SOLVENTS OF
LARGE MOLECULES.

AUTHOR- GOPAL, R.; SINGH, K.; SIDDIQI, M.A. [LUCKNOW
UNIV. (INDIA). DEPT. OF CHEMISTRY].

REFERENCE- J. INDIAN CHEM. SOC., V. 47 (5), P.
504-505(1970).

DESCRIPTORS- APPARENT MOLAL VOLUME.

576

GREYSON 69
SOLUTIONS/THERMODYNAMICS

TITLE- CONCENTRATION DEPENDENCE OF HEATS OF TRANSFER
BETWEEN HEAVY AND NORMAL WATER.

AUTHOR- GREYSON, J.; SNELL, H. [NORTH AMERICAN
ROCKWELL CORP., CANOGA PARK, CALIF. (USA)].

REFERENCE- J. PHYS. CHEM., V. 73 (12), P.

4423-4424(1969).

DESCRIPTORS- TABLES; ENTHALPY; MODERATE
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; BARIUM CHLORIDES; ELECTROLYTES;
CALCIUM CHLORIDES; HEAVY WATER; MAGNESIUM
CHLORIDES; WATER.

577

GREYSON 69B
SOLUTIONS/THERMODYNAMICS

TITLE- INFLUENCE OF THE ALKALINE-EARTH CHLORIDES ON
THE STRUCTURE OF WATER.

AUTHOR- GREYSON, J.; SNELL, H. [NORTH AMERICAN
ROCKWELL CORP., CANOGA PARK, CALIF. (USA)].

REFERENCE- J. PHYS. CHEM., V. 73 (10), P.
3208-3214(1969).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ELECTROMOTIVE FORCE; ENTHALPY; ENTROPY; FREE
ENERGY; SOLUTION HEAT; LOW CONCENTRATION;
MODERATE CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; CALCIUM CHLORIDES; HEAVY WATER;
MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES; WATER.

578

HASEGAWA 69
SOLUTIONS/THERMODYNAMICS

TITLE- OBSERVATIONS OF THE WATER ACTIVITY IN UNI-UNI
VALENT ELECTROLYTE SOLUTIONS.

AUTHOR- HASEGAWA, Y. [SCIENCE UNIV. OF TOKYO

REFERENCE- BULL. CHEM. SOC. JPN., V. 42 (5), P.
1429-1431(1969).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
SODIUM BROMIDES; SODIUM CHLORIDES; SODIUM
IODIDES; WATER; SODIUM CHLORATES.

579

HERDKLOTZ 71
SOLUTIONS/THERMODYNAMICS

TITLE- THE THERMODYNAMIC PROPERTIES OF AQUEOUS
HYDROCHLORIC ACID-SODIUM CHLORIDE-MGCL₂
MIXTURES AS CALCULATED FROM EMF MEASUREMENTS.

AUTHOR- HERDKLOTZ, R.J. [TENNESSEE UNIV., KNOXVILLE
(USA)].

REFERENCE- DISS. ABSTR., V. 3113, P. 5290(1971).

DESCRIPTORS- ELECTROMOTIVE FORCE; ACTIVITY
COEFFICIENT; BARIUM CHLORIDES; CALCIUM
CHLORIDES; CESIUM CHLORIDES; HYDROCHLORIC ACID;
MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES;
SODIUM CHLORIDES.

580

HERRINGTON 73
SOLUTIONS/THERMODYNAMICS

TITLE- OSMOTIC COEFFICIENTS AQUEOUS POTASSIUM
CHLORIDE SOLUTION AT 50 AND 70 DEGREES.

AUTHOR- HERRINGTON, T.; JACKSON, R.J. [THE UNIV.,
WHITEKNIGHTS PARK, (UK). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. SOC., FARADAY TRANS. 1, V. 69
(9), P. 1635-1647(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; VAPOR PRESSURE;
OSMOTIC COEFFICIENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; MODERATE TEMPERATURE;
POTASSIUM CHLORIDES.

581

HINE 71
SOLUTIONS/MISC.

TITLE- CONDUCTIVITY OF CONCENTRATED KCL SOLUTION.

AUTHOR- HINE, F.; YASUDA, M.; INUTA, S.

REFERENCE- DENKI KAGAKU, V. 39 (12), P.
934-937(1971).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; ELECTRIC CONDUCTIVITY; HIGH
CONCENTRATION; MODERATE TEMPERATURE;
HYDROCHLORIC ACID; POTASSIUM CHLORIDES;

POTASSIUM HYDROXIDES.

582

HEDWIG 71
SOLUTIONS/THERMODYNAMICS

TITLE- DIRECT POTENTIOMETRIC MEASUREMENT OF HYDROGEN
ION CONCENTRATION IN NaCl SOLUTION OF FIXED
IONIC STRENGTH.

AUTHOR- HEDWIG, G.R.; POWELL, H.K.J. [CANTERBURY
UNIV., CHRISTCHURCH (NEW ZEALAND)].

REFERENCE- ANAL. CHEM., V. 43 (10), P.
1206-1212(1971).

DESCRIPTORS- TABLES; ACTIVITY COEFFICIENT; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; IONS;
SODIUM CHLORIDES.

583

HOSTETLER 67
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENTS OF AQUEOUS POTASSIUM
CHLORIDE MEASURED WITH A POTASSIUM SENSITIVE
GLASS ELECTRODE.

AUTHOR- HOSTETLER, P.B.; TRUESDELL, A.H.; CHRIST, C.L.
[GEOLOGICAL SURVEY, MENLO PARK, CALIF. (USA)].

REFERENCE- SCIENCE, V. 155 (3769), P.
1537-1539(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; ELECTROMOTIVE FORCE; ACTIVITY
COEFFICIENT; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; POTASSIUM CHLORIDES.

584

HUMPHRIES 68
SOLUTIONS/THERMODYNAMICS

TITLE- OSMOTIC PROPERTIES OF SOME AQUEOUS
ELECTROLYTES AT 60 DEGREES.

AUTHOR- HUMPHRIES, W.T.; KOHRT, C.F.; PATTERSON, C.S.
[FURMAN UNIV., GREENVILLE, S.C. (USA). DEPT. OF
CHEMISTRY].

REFERENCE- J. CHEM. ENG. DATA, V. 13 (3), P.
327-330(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; OSMOTIC COEFFICIENT;
ISOPIESTIC MEASUREMENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; MODERATE TEMPERATURE;
POTASSIUM BROMIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; SODIUM SULFATES.

585

HUSTON 69
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY MEASUREMENTS IN CONCENTRATED SODIUM
CHLORIDE-KCL ELECTROLYTES USING
CATION-SENSITIVE GLASS ELECTRODES.

AUTHOR- HUSTON, R.; BUTLER, J.N. [TYCO LABS.,
WALTHAM, MASS. (USA)].

REFERENCE- ANAL. CHEM., V. 41 (12), P.
1695-1698(1969).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD TEMPERATURE; POTASSIUM CHLORIDES;
SODIUM CHLORIDES.

586

JAKLI 72
SOLUTIONS/THERMODYNAMICS

TITLE- OSMOTIC COEFFICIENTS OF AQUEOUS SOLUTIONS OF
SODIUM BROMIDE, SODIUM IODIDE, KF, AND $CaCl_2$
BETWEEN 0 DEGREE AND 90 DEGREES.

AUTHOR- JAKLI, G.; VAN HOOK, W.A. [TENNESSEE UNIV.,
KNOXVILLE (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. ENG. DATA, V. 17 (3), P.
348-355(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; VAPOR PRESSURE;
OSMOTIC COEFFICIENT; HIGH CONCENTRATION; LOW

TEMPERATURE; MODERATE TEMPERATURE; CALCIUM
CHLORIDES; POTASSIUM FLUORIDES; SODIUM
BROMIDES; SODIUM IODIDES.

587

JENKS 75
SOLUTIONS/THERMODYNAMICS

TITLE- REACTION PRODUCTS AND STORED ENERGY RELEASED
FROM IRRADIATED SODIUM CHLORIDE BY DISSOLUTION
AND BY HEATING.

AUTHOR- JENKS, G.H.; SONDER, E.; BOPP, C.D.; WALTON,
J.R. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

LINDENBAUM, S. [KANSAS UNIV., LAWRENCE

REFERENCE- J. PHYS. CHEM., V. 79 (9), P.
871-875(1975).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; SOLUTION HEAT; SODIUM

588

JANZ 70
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- ELECTRICAL CONDUCTANCE, DIFFUSION, VISCOSITY,
AND DENSITY OF SODIUM NITRATE, SODIUM
PERCHLORATE, AND SODIUM THIOCYANATE IN
CONCENTRATED AQUEOUS SOLUTIONS.

AUTHOR- JANZ, G.J.; OLIVER, B.G.; LAKSHMINARAYANAN,
G.R.; MAYER, G.E. [RENSSELAER POLYTECHNIC INST.,
TROY, N.Y. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 74 (6), P.
1285-1289(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; DENSITY; DIFFUSION;
ELECTRIC CONDUCTIVITY; VISCOSITY; PYCNOMETERS;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD TEMPERATURE; ELECTROLYTES; SODIUM
CHLORIDES; SODIUM NITRATES.

589

TITLE- CONCENTRATION DEPENDENCE OF THE ENTHALPIES OF MIXING OF SOME AQUEOUS ELECTROLYTES AT 25 DEGREES. TEST OF YOUNG'S RULE.

AUTHOR- JOLICOEUR, C.; PICKER, P.; DESNOYERS, J.E.
[SHERBROOKE UNIV., QUEBEC (CANADA). DEPT. DE CHIMIE].

REFERENCE- J. CHEM. THERMODYN., V. 1 (5), P. 485-493(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; GRAPHS; TABLES; MIXING HEAT; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; ELECTROLYTES; POTASSIUM BROMIDES; POTASSIUM CARBONATES; POTASSIUM CHLORIDES; POTASSIUM FLUORIDES; POTASSIUM IODIDES; POTASSIUM NITRATES; SODIUM BROMIDES; SODIUM CARBONATES; SODIUM CHLORIDES; SODIUM FLUORIDES; SODIUM IODIDES; SODIUM NITRATES.

590

TITLE- ENTHALPY OF SOLUTION OF ALKALI HALIDES IN AQUEOUS SOLUTION OF THE CORRESPONDING HYDROGEN HALIDES.

AUTHOR- JOLY, R.D.; THOUREY, J.; PERACHON, G.

REFERENCE- C. R. ACAD. SCI., SER. C., V. 277 (22), P. 1179-1181(1973).

DESCRIPTORS- GRAPHS; TABLES; DILUTION HEAT; LOW CONCENTRATION; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; ELECTROLYTES; HYDROCHLORIC ACID; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; POTASSIUM IODIDES; SODIUM CHLORIDES; SODIUM IODIDES.

591

TITLE- PERMITTIVITY AND DIELECTRIC AND PROTON MAGNETIC RELAXATION OF AQUEOUS SOLUTIONS OF THE ALKALI HALIDES.

AUTHOR- GIESE, K.;KAATZE, U.;POTTEL, R. [GOETTINGEN
UNIV. (F.R. GERMANY). 2. PHYSIKALISCHES INST.].

REFERENCE- J. PHYS. CHEM., V. 74 (21), P.
3718-3725(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DIELECTRIC CONSTANT; RELAXATION TIME;
ELECTROLYTES.

592

KONSTANTINOV 66
SOLUTIONS/MISC.

TITLE- THE MEASUREMENT OF ION TRANSPORT NUMBERS WITH
RESPECT TO THE SOLUTION IN HCL, LI₂CO₃, NaCl AND
KCl SOLUTIONS. (IN RUSSIAN).

AUTHOR- KONSTANTINOV, B.P.;TROSHIN, V.P.

REFERENCE- IZV. AKAD. NAUK SSSR, SER. KHIM., V. 1966
(12), P. 2104-2110(1966).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS;
TRANSFER NUMBER; MOVING BOUNDARY METHOD;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; LOW TEMPERATURE; IONS;
HYDROCHLORIC ACID; LITHIUM IODIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; POROUS MEDIA.

593

KLOPOV 72
SOLUTIONS/THERMODYNAMICS

TITLE- SPECIFIC HEAT OF SOLUTIONS OF POTASSIUM
CHLORIDE IN WATER AND 30 PER CENT AQUEOUS
SOLUTION OF ISOPROPYL ALCOHOL IN THE M<0.001
RANGE OF ELECTROLYTE MOLAL CONCENTRATION AT 25
DEGREES.

AUTHOR- KLOPOV, V.I.;KOLKER, A.M.;KRESTOV, G.A.

REFERENCE- ZH. FIZ. KHIM., V. 46 (8), P.
2155-2156(1972).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; SPECIFIC
HEAT; CALORIMETERS; LOW CONCENTRATION; STANDARD
TEMPERATURE; POTASSIUM CHLORIDES.

KARAPET'YANTS 70
SOLUTIONS/THERMODYNAMICS

TITLE- HEAT CAPACITY AND VOLUMETRIC PROPERTIES OF
AQUEOUS SOLUTION OF CALCIUM AND STRONTIUM
CHLORIDES AT 25 DEGREES.

AUTHOR- KARAPET'YANTS, M.KH.;VASILEV,
V.A.;FEDYAINOV, N.V.

REFERENCE- ZH. FIZ. KHIM., V. 44 (7), P.
1822-1823(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
SPECIFIC HEAT; ELEVATED CONCENTRATION; STANDARD
TEMPERATURE; BARIUM CHLORIDES; CALCIUM
CHLORIDES; MAGNESIUM CHLORIDES.

KARSTEN 73
SOLUTIONS/MISC.

TITLE- COORDINATE SPACES OF THE EQUILIBRIUM SOLUTION
OF ONE-SEDIMENT REGION IN THE
H₂O-NA-K-MG-SO₄-CL SYSTEM AT 25 DEGREES BY
SHELLS, WHICH ARE REPRESENTED BY LEVEL LINER OF
BASAL AREAS.

AUTHOR- KARSTEN, O.

REFERENCE- Z. ANORG. ALLG. CHEM., V. 396 (1), P.
17-38(1973).

DESCRIPTORS- GRAPHS; TABLES; PHASE DIAGRAMS;
STANDARD TEMPERATURE; ELECTROLYTES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

KESSLER 67
SOLUTIONS/MISC.

TITLE- ACTIVITY AND OSMOTIC COEFFICIENTS OF ONE TO
ONE ELECTROLYTES IN WATER AT 0 DEGREES.

AUTHOR- KESSLER, YU.M.;LOZHKIN, L.G.;MOSTKOV, R.I.
[AN SSSR, MOSCOW (USSR). INST. EHLEKTROKHIMII].

REFERENCE- ELEKTROKHIMIYA, V. 3 (2), P.

DESCRIPTORS- TABLES; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; HYDROCHLORIC ACID; POTASSIUM BROMIDES; POTASSIUM HYDROXIDES; SODIUM CHLORIDES.

597

KESSLER 67B
SOLUTIONS/THERMODYNAMICS

TITLE- TEMPERATURE DEPENDENCE OF THE PARAMETER OF NEIGHBORING INTERACTIONS OF IONS IN AQUEOUS SOLUTIONS OF STRONG ELECTROLYTES. (IN RUSSIAN).

AUTHOR- KESSLER, YU.M. [AN SSSR, MOSCOW (USSR). INST. EHLEKTROKHMII].

REFERENCE- ZH. STRUKT. KHM., V. 8 (5), P. 827-828(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT; LOW CONCENTRATION; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; LOW TEMPERATURE; ELECTROLYTES; LITHIUM IODIDES; POTASSIUM IODIDES.

598

KESSLER 67C
SOLUTIONS/THERMODYNAMICS

TITLE- SOME PARAMETERS IN THE THEORY OF STRONG ELECTROLYTE SOLUTIONS. (IN RUSSIAN).

AUTHOR- KESSLER, YU.M. [AN SSSR, MOSCOW (USSR). INST. EHLEKTROKHMII].

REFERENCE- ELEKTROKHMIIYA, V. 3 (7), P. 881-884(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; STANDARD TEMPERATURE; ELECTROLYTES; LITHIUM CHLORIDES; POTASSIUM CHLORATES; SODIUM CHLORIDES.

599

KHIMENKO 73

TITLE- APPARENT MOLAR VOLUMES OF SOME SALTS IN WATER AND METHANOL.

AUTHOR- KHIMENKO, M.T.;BUGAEVSKII, A.A.

REFERENCE- ZH. FIZ. KHIM., V. 47 (8), P. 2144-2145(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; APPARENT MOLAL VOLUME; LOW TEMPERATURE; ELECTROLYTES.

600

KIRGINTSEV 66
SOLUTIONS/MISC.

TITLE- SOLUBILITY EQUATIONS IN TERNARY WATER-SALT SYSTEMS. III. COMPARISON OF THE SECOND FORM OF THE SOLUBILITY EQUATION WITH EXPERIMENTAL DATA.

AUTHOR- KIRGINTSEV, A.N.;LUK'YANOV, A.V. [AN SSSR, NOVOSIBIRSK. INST. NEORGANICHESKOJ KHIMII].

REFERENCE- IZV. AKAD. NAUK SSSR, SER. KHIM., V. 1966 (9), P. 1526-1533(1966).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; GRAPHS; TABLES; SOLUBILITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES; SODIUM CHLORIDES.

601

KIRGINTSEV 67
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- ISOPIESTIC STUDY OF THE NA₂CO₃-K₂CO₃-CaCl₂-H₂O SOLUTIONS AT 25 DEGREES.

AUTHOR- KIRGINTSEV, A.N.;LUK'YANOV, A.V. [AN SSSR, NOVOSIBIRSK. INST. NEORGANICHESKOJ KHIMII].

REFERENCE- ZH. FIZ. KHIM., V. 41 (1), P. 107-109(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; TABLES; VAPOR PRESSURE; ACTIVITY COEFFICIENT; ISOPIESTIC MEASUREMENT; HIGH CONCENTRATION; STANDARD TEMPERATURE; CALCIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM

602

KIRGINTSEV 67B
SOLUTIONS/MISC.

TITLE- FEATURES OF SURFACE TENSION POLYOTHERMS OF
WATER AND AQUEOUS SOLUTIONS. (IN RUSSIAN).

AUTHOR- KIRGINTSEV, A.N.; EFANOV, L.N. [AN SSSR,
NOVOSIBIRSK. INST. NEORGANICHESKOJ KHIMII].

REFERENCE- IZV. AKAD. NAUK SSSR, SER. KHIM., V. 1967
(3), P. 571-577(1967).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; SURFACE
TENSION; MEASURING INSTRUMENTS; ELEVATED
CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; SODIUM
CHLORIDES.

603

KOMAR 68
SOLUTIONS/THERMODYNAMICS

TITLE- ELEVATION OF THE ACTIVITY OF K^+ , Na^+ , Cl^-
IONS IN SOLUTIONS OF SODIUM AND POTASSIUM
CHLORIDE.

AUTHOR- KOMAR, N.P.; MUSAILOV, O.S. [AN SSSR,
NOVOSIBIRSK. (USSR). INST. YADERNOJ FIZIKI].

REFERENCE- ZH. FIZ. KHIM., V. 42 (11), P.
2947-2949(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ACTIVITY
COEFFICIENT; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; IONS; HYDROCHLORIC ACID; POTASSIUM
CHLORIDES; POTASSIUM HYDROXIDES; SODIUM
CHLORIDES; SODIUM HYDROXIDES.

604

KOMAR 72
SOLUTIONS/THERMODYNAMICS

TITLE- MEASUREMENT OF ϵ_0 AND γ . + - OF
HYDROCHLORIC ACID IN A POTASSIUM CHLORIDE

SOLUTION IN A CELL WITHOUT TRANSFERENCE.

AUTHOR- KOMAR, N.P.;KAFTANOV, A.Z.;DUNAI, B.A. [AN
SSSR, NOVOSIBIRISK (USSR). YADERNOJ FIZIKI].

REFERENCE- ELEKTROKHIMIYA, V. 8 (8), P.
1177-1179(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT; LOW
CONCENTRATION; MODERATE CONCENTRATION;
HYDROCHLORIC ACID; POTASSIUM CHLORIDES.

605

KOMAR 74
SOLUTIONS/THERMODYNAMICS

TITLE- EVALUATION OF THE ACTIVITY COEFFICIENT FOR
CHLORIDE ION IN A POTASSIUM CHLORIDE SOLUTION.

AUTHOR- KOMAR, N.P.;KAFTANOV, A.Z. [LENIN
BELORUSSIAN STATE UNIVERSITY, MINSK (USSR)].

REFERENCE- ZH. FIZ. KHIM., V. 48 (2), P.
428-429(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; ACTIVITY
COEFFICIENT; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE; IONS;
POTASSIUM CHLORIDES.

606

KOMAR 74B
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENTS OF OXONIUM IONS WITH A
SODIUM CHLORIDE SUPPORTING ELECTROLYTE IN THE
RANGE 20-60 DEGREES.

AUTHOR- KOMAR, N.P.;RUBTSOV, M.I. [GORKY KHARKOV
STATE UNIV. (USSR)].

REFERENCE- ZH. FIZ. KHIM., V. 48 (1), P.
199-200(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ACTIVITY
COEFFICIENT; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; IONS; HYDROCHLORIC ACID; SODIUM
CHLORIDES.

607

KONONENKO 74
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- INFLUENCE OF TEMPERATURE ON DENSITY AND
VISCOSITY OF CERTAIN SALT SOLUTIONS.

AUTHOR- KONONENKO, A.F.; SASHEVSKAYA, Z.G.

REFERENCE- J. APPL. CHEM. USSR, V. 47, P.
208-209(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; DENSITY; VISCOSITY;
PYCNOMETERS; HIGH CONCENTRATION; LOW
TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES;
SODIUM CHLORIDES; MIXTURES.

608

KREY 72
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- VAPOR PRESSURE AND DENSITY OF THE SYSTEM
H₂O-NAOH.

AUTHOR- KREY, J. [KERNTECHNIK BRAUNSCHWEIG (F.R.
GERMANY). INSTITUT FUR VERFAHRENS].

REFERENCE- Z. PHYS. CHEM. NEUE FOLGE, V. 81, P.
252-273(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; VAPOR PRESSURE; HIGH CONCENTRATION;
LOW TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SODIUM HYDROXIDES.

609

KRISHNAN 70
SOLUTIONS/THERMODYNAMICS

TITLE- SOLVATION ENTHALPIES OF VARIOUS IONS IN WATER
AND HEAVY WATER.

AUTHOR- KRISHNAN, C.V.; FRIEDMAN, H.L. [STATE UNIV.]

OF NEW YORK, STONY BROOK (USA). DEPT. OF
CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 74, P.
2356-2362(1970).

DESCRIPTORS- REVIEWS; GRAPHS; TABLES; SOLUTION HEAT;
STANDARD TEMPERATURE; ELECTROLYTES; HEAVY
WATER; LITHIUM CHLORIDES; POTASSIUM CHLORIDES;
SODIUM CHLORIDES; WATER.

610

LAGUNOV 70
SOLUTIONS/THERMODYNAMICS

TITLE- AKERLOEF-THOMAS RULE AND THEORY OF
ACTIVITIES. (IN RUSSIAN).

AUTHOR- LAGUNOV, M.D. [LABOACHEVSKII GORKY STATE
UNIV. (USSR). INSTITUTE OF CHEMISTRY].

REFERENCE- ZH. FIZ. KHIM., V. 44 (2), P.
452-453(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; ACTIVITY
COEFFICIENT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; ELECTROLYTES; HYDROCHLORIC ACID;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

611

KULKARNI 71
SOLUTIONS/MISC.

TITLE- CONDUCTIVITY OF MIXED AQUEOUS ELECTROLYTES.

AUTHOR- KULKARNI, A.G.

REFERENCE- J. INDIAN CHEM. SOC., V. 48 (9), P.
401-402(1971).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; ELECTRIC
CONDUCTIVITY; MODERATE CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; BARIUM CHLORIDES; HYDROCHLORIC
ACID; POTASSIUM CHLORIDES; POTASSIUM NITRATES;
SODIUM CHLORIDES.

612

LARSON 70
SOLUTIONS/THERMODYNAMICS

TITLE- ENTROPIES OF SODIUM AND HYDROXIDE IONS AND
THE THERMODYNAMICS OF IONIZATION OF WATER.

AUTHOR- LARSON, J.W. [MARSHALL UNIV. (USA). DEPT. OF
CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 74 (3), P.
685-686(1970).

DESCRIPTORS- DISSOCIATION CONSTANT; ENTROPY; FREE
ENERGY; STANDARD TEMPERATURE; IONS; SODIUM
HYDROXIDES; WATER.

613

LEE 73
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/VOLUMETRIC

TITLE- THERMAL ANOMALY IN THE TEMPERATURE DEPENDENCE
OF THE ENERGY-VOLUME COEFFICIENT OF AQUEOUS KCL
SOLUTIONS.

AUTHOR- LEE, I.; HYNE, J.B. [CALGARY UNIV., ALBERTA
(CANADA). DEPT. OF CHEMISTRY].

REFERENCE- CAN. J. CHEM., V. 51 (12), P.
1885-1888(1973).

DESCRIPTORS- GRAPHS; TABLES; THERMODYNAMICS; ENERGY
VOLUME COEFFICIENT; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; POTASSIUM CHLORIDES; WATER.

614

LESSIEUX 68
SOLUTIONS/MISC.

TITLE- CRYSTALLIZATION RATE OF AQUEOUS SOLUTIONS OF
SODIUM AND POTASSIUM CHLORIDES SATURATED WITH
BOTH SALTS. INFLUENCE OF SOME HOMOIONIC SALTS.

AUTHOR- LESSIEUX, J.C. [LABORATOIRE DE CHIMIE
MINERALE DE LA SORBONNE (FRANCE)].

REFERENCE- REV. CHIM. MINER., V. 5 (4), P.
727-761(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
SOLUBILITY; CRYSTALLIZATION; KINETICS; LOW
TEMPERATURE; MODERATE TEMPERATURE; CALCIUM
CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
NITRATES; SODIUM CHLORIDES; MIXTURES.

615

LIELMEZS 74
SOLUTIONS/MISC.

TITLE- EXTERNAL TRANSVERSE MAGNETIC FIELD EFFECT ON
ELECTROLYTE DIFFUSION IN POTASSIUM
CHLORIDE-WATER SOLUTION.

AUTHOR- LIELMEZS, J.; ALEMAN, H.; MUSBALLY, G.M.
[BRITISH COLUMBIA UNIV., VANCOUVER (CANADA)].

REFERENCE- Z. PHYS. CHEM. (FRANKFURT AM MAIN), V. 90
(1-2), P. 8-25(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; DIFFUSION; MEASURING
INSTRUMENTS; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; POTASSIUM CHLORIDES; MAGNETIC
FIELDS.

616

LIKKE 73
SOLUTIONS/THERMODYNAMICS

TITLE- HEAT CAPACITIES OF AQUEOUS NA₂CO₃, K₂CO₃, MgCl₂,
MgSO₄, AND Na₂SO₄ SOLUTION BETWEEN 80 DEG. AND
200 DEGREES.

AUTHOR- LIKKE, S.; BROMLEY, L.A. [CALIFORNIA UNIV.,
BERKELEY (USA)].

REFERENCE- J. CHEM. ENG. DATA, V. 18 (2), P.
189-195(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; APPARENT MOLAL
SPECIFIC HEAT; PARTIAL MOLAL SPECIFIC HEAT;
SPECIFIC HEAT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; MAGNESIUM CHLORIDES; MAGNESIUM
SULFATES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; SODIUM SULFATES.

LILLEY 73
SOLUTIONS/VOLUMETRIC

TITLE- TEMPERATURE OF MAXIMUM DENSITY OF AQUEOUS
ELECTROLYTE SOLUTIONS AND ITS RELATION TO THE
TEMPERATURE DERIVATIVE OF THE PARTIAL MOLAR
VOLUME OF THE SOLUTE.

AUTHOR- LILLEY, T.H.;MURPHY, S. [SHEFFIELD UNIV.
(UK). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. THERMODYN., V. 5 (4), P.
467-470(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; DENSITY; PARTIAL MOLAL
VOLUME; DILATOMETERS; INFINITE DILUTION;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
LOW TEMPERATURE; BARIUM CHLORIDES; CALCIUM
CHLORIDES.

LILICH 67
SOLUTIONS/THERMODYNAMICS

TITLE- PARTIAL MOLAR CHARACTERISTICS OF THE
CaCl₂-HCl-H₂O SYSTEM.

AUTHOR- LILICH, L.S.;POPKOV, O.S. [AN SSSR,
NOVOSIBIRSK. INST. NEORGANICHESKOJ KHIMII].

REFERENCE- ZH. FIZ. KHIM., V. 41 (8), P.
1979-1983(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
CHEMICAL POTENTIAL; FREE ENERGY; PARTIAL MOLAL
ENTHALPY; PARTIAL MOLAL ENTROPY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; CALCIUM
CHLORIDES; HYDROCHLORIC ACID; MIXTURES.

LILICH 67B
SOLUTIONS/THERMODYNAMICS

TITLE- SOME NONADDITIVE PROPERTIES OF ELECTROLYTE
SOLUTIONS.

AUTHOR- LILICH, L.S.;MOGILEV, M.E.;CHERNYKH, L.V.
[LENINGRAD STATE UNIV. (USSR)].

REFERENCE- ZH. STRUKT. KHIM., V. 8 (2), P.
199-204(1967).

DESCRIPTORS- GRAPHS; THERMODYNAMICS; ENTHALPY;
ENTROPY; FREE ENERGY; HIGH CONCENTRATION;
STANDARD TEMPERATURE; ELECTROLYTES; CALCIUM
CHLORIDES; SODIUM CHLORIDES; MIXTURES.

620

LINDENBAUM 70
SOLUTIONS/THERMODYNAMICS

TITLE- WATER STRUCTURE PROMOTION BY LARGE ORGANIC
ANIONS.

AUTHOR- LINDENBAUM, S. [OAK RIDGE NATIONAL LAB.,
TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 74 (15), P.
3027-3028(1970).

DESCRIPTORS- GRAPHS; TABLES; ENTHALPY; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; IONS; TETRAALKYLAMMONIUM

621

LOHSE 67
SOLUTIONS/MISC.

TITLE- CONDUCTIVITY AND VISCOSITY CONCENTRATED
TERTIARY SYSTEMS. (IN GERMAN).

AUTHOR- LOHSE, W.;SCHWABE, K.;WOLF, R. [UNIVERSITAT
DRESDEN (F. R. GERMANY). INST. FUR
ELEKTROCHEMIE UND PHYSIKALISCHE CHEMIE DER
TECHNISCHEN].

REFERENCE- Z. PHYS. CHEM. (FRANKFURT AM MAIN), V. 55
(5-6), P. 268-279(1967).

DESCRIPTORS- GRAPHS; TABLES; ELECTRIC CONDUCTIVITY;
VISCOSITY; HIGH CONCENTRATION; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
HYDROCHLORIC ACID; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; TETRAALKYLAMMONIUM
COMPOUNDS; MIXTURES.

622

LOWE 72
SOLUTIONS/THERMODYNAMICS

TITLE- THE MEASUREMENT OF SOLVENT ISOTOPE EFFECT
WITH CATION SELECTIVE GLASS ELECTRODES.

AUTHOR- LOWE, B.M.; SMITH, D.G. [EDINBURGH UNIV.

REFERENCE- CHEM. COMMUN., V. 1972, P. 989-990(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; ELECTROMOTIVE
FORCE; ISOTOPE EFFECTS; FREE ENERGY; STANDARD
TEMPERATURE; HEAVY WATER; SODIUM CHLORIDES;
WATER.

623

MADAN 73
SOLUTIONS/VOLUMETRIC

TITLE- INTRINSIC VOLUME OF IONS IN SOLUTION.

AUTHOR- MADAN, G.L. [AHMEDABAD TEXTILE INDUSTRY'S
RESEARCH ASSOCIATION (INDIA). GROUP FOR

REFERENCE- INDIAN J. CHEM., V. 11 (12), P.
1319-1321(1973).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; TABLES;
MOLAL VOLUME; IONS.

624

MACMULLIN 69
SOLUTIONS/MISC.

TITLE- ALGORITHM FOR THE VAPOR PRESSURE OVER AQUEOUS
SOLUTIONS OF SALT AND CAUSTIC SODA.

AUTHOR- MACMULLIN, R.B. [R. B. MACMULLIN ASSOCIATES,
NIAGARA FALLS, NEW YORK (USA)].

REFERENCE- J. ELECTROCHEM. SOC., V. 116 (3), P.
416-419(1969).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
VAPOR PRESSURE; HIGH CONCENTRATION; MODERATE
TEMPERATURE; SODIUM CHLORIDES; SODIUM

625

MAL'TSEVA 71
SOLUTIONS/MISC.

TITLE- CATION HYDRATION OF ALKALI METALS IN DILUTE
AQUEOUS SOLUTIONS.

AUTHOR- MAL'TSEVA, N.S.; OYARI, P.U.; SAMOYLOV, O.YA.

REFERENCE- ZH. STRUKT. KHIM., V. 12, P.
910-912(1971).

DESCRIPTORS- GRAPHS; TABLES; HYDRATION NUMBER;
ELECTROLYTES; IONS; LITHIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

626

MANDAL 73
SOLUTIONS/MISC.

TITLE- STRUCTURAL ASPECTS OF IONIC VISCOSITY B
COEFFICIENTS IN RELATION TO ION-SOLVENT
INTERACTION IN AQUEOUS SOLUTION. I..

AUTHOR- MANDAL, P.K.; SEAL, B.K.; BASU, A.S. [BURDWAN
UNIV., WEST BENGAL (INDIA)].

REFERENCE- Z. PHYS. CHEM. (FRANKFURT AM MAIN), V. 87
(4-6), P. 295-307(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
MOLAL VOLUME; VISCOSITY; IONS.

627

MANGOLD 69
SOLUTIONS/MISC.

TITLE- ELECTRICAL CONDUCTIVITY OF AQUEOUS SOLUTION
AT HIGH TEMPERATURE AND PRESSURES. II.
ALKALI-METAL CHLORIDES IN WATER UP TO 1000
DEGREES AND 12 KILOBARS.

AUTHOR- MANGOLD, K.; FRANCK, E.U. [KARLSRUHE UNIV.
(TH) (F. R. GERMANY). INST. FUER PHYSIKALISCHE
CHEMIE UND ELEKTROCHEMIE].

REFERENCE- BER. BUNSENES. PHYS. CHEM., V. 73 (1),

P. 21-27(1969).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ELECTRIC CONDUCTIVITY; MEASURING INSTRUMENTS;
LOW CONCENTRATION; MODERATE CONCENTRATION; HIGH
PRESSURE; ELEVATED TEMPERATURE; HIGH
TEMPERATURE; CESIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES.

628

MATSUBARA 73
SOLUTIONS/MISC.

TITLE- TRANSFERENCE NUMBERS OF A POTASSIUM CHLORIDE
AQUEOUS SOLUTION UNDER PRESSURE.

AUTHOR- MATSUBARA, Y.; SHIMIZU, K.; OSUGI, J. [KYOTO
UNIV. (JAPAN). FACULTY OF SCIENCE].

REFERENCE- REV. PHYS. CHEM. JPN., V. 43 (1), P.
24-32(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; DIFFUSION;
TRANSFERENCE NUMBER; VISCOSITY; MODERATE
CONCENTRATION; STANDARD PRESSURE; HIGH
PRESSURE; STANDARD TEMPERATURE; POTASSIUM
CHLORIDES.

629

MESSIKOMER 75
SOLUTIONS/THERMODYNAMICS

TITLE- ENTHALPY OF DILUTION OF AQUEOUS NaCl AT
298.15 TO 373.15 DEG. K, MEASURED WITH A FLOW
CALORIMETER.

AUTHOR- MESSIKOMER, E.E.; WOOD, R.H. [DELAWARE UNIV.,
NEWARK (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. THERMODYN., V. 7 (2), P.
119-130(1975).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DILUTION HEAT; ENTHALPY; OSMOTIC COEFFICIENT;
PARTIAL MOLAL ENTHALPY; FLOW CALORIMETERS;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
MODERATE TEMPERATURE; SODIUM CHLORIDES.

MICKA 68
SOLUTIONS/MISC.

TITLE- MASS TRANSFER IN CONCENTRATED BINARY
ELECTROLYTES.

AUTHOR- MICKA, K. [CESKOSLOVENSKA AKADEMIE VED,
PRAGUE. POLAROGRAFICKY USTAV J. HEYROVSKÉHO].

REFERENCE- BER. BUNSENGES. PHYS. CHEM., V. 72 (1),
P. 60-63(1968).

DESCRIPTORS- THEORETICAL TREATMENTS; DIFFUSION;
ELECTROLYTES.

MITRA 68
SOLUTIONS/THERMODYNAMICS

TITLE- EQUATION FOR ACTIVITY COEFFICIENT OF STRONG
ELECTROLYTES BASED ON A DEBYE ION
CLOUD-CUM-ION-LATTICE MODEL.

AUTHOR- MITRA, R.P.; JAIN, D.V.S.; KAPOOR, M.M. [DELHI
UNIV. (INDIA). DEPT. OF CHEMISTRY].

REFERENCE- INDIAN J. CHEM., V. 6 (7), P.
391-392(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ACTIVITY
COEFFICIENT; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; POTASSIUM CHLORIDES.

MOLENAT 69
SOLUTIONS/MISC.

TITLE- SYSTEMATIC STUDY OF CONDUCTIVITY AT 25
DEGREES IN CONCENTRATED ALKALI HALIDE
SOLUTIONS. (IN FRENCH).

AUTHOR- MOLENAT, J. [FACULTE DES SCIENCES DE
MONTPELLIER (FRANCE). LABORATOIRE DE CHIMIE
PHYSIQUE].

REFERENCE- J. CHIM. PHYS. PHYS.-CHIM.. BIOL., V. 66
(5), P. 825-833(1969).

DESCRIPTORS- GRAPHS; TABLES; ELECTRIC CONDUCTIVITY;
ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELECTROLYTES; CESIUM CHLORIDES;
LITHIUM CHLORIDES; LITHIUM IODIDES; POTASSIUM
BROMIDES; POTASSIUM IODIDES; SODIUM BROMIDES;
SODIUM IODIDES; TETRAALKYLAMMONIUM COMPOUNDS.

633

MOLENAT 67
SOLUTIONS/MISC.

TITLE- SYSTEMATIC EXPERIMENTAL STUDY OF THE
CONDUCTIVITY OF CONCENTRATED ALKALI METAL
HALIDE SOLUTIONS AT 25 DEGREES AT ATMOSPHERIC
PRESSURE. (IN FRENCH).

AUTHOR- MOLENAT, J. [FACULTE DES SCIENCES HERAULT
(FRANCE). LABORATOIRE DE CHIMIE PHYSIQUE].

REFERENCE- C. R. ACAD. SCI. PARIS, SER. C, V. 265
(13), P. 649-651(1967).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; ELECTRIC
CONDUCTIVITY; HIGH CONCENTRATION; STANDARD
TEMPERATURE; ELECTROLYTES; CESIUM CHLORIDES;
LITHIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM
BROMIDES; SODIUM CHLORIDES; SODIUM IODIDES.

634

MOLENAT 70
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- RESULIVITY AND CONDUCTIVITY OF SALINE
SOLUTION AS A FUNCTION OF PRESSURE AND
TEMPERATURE. (IN FRENCH).

AUTHOR- MOLENAT, J. [FACULTE DES SCIENCES DE
MONTPELLIER (FRANCE). LABORATOIRE DE CHIMIE
PHYSIQUE].

REFERENCE- J. CHIM. PHYS. PHYS.-CHIM. BIOL., V. 67
(2), P. 368-374(1970).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
COMPRESSIBILITY; ELECTRIC CONDUCTIVITY;
MEASURING INSTRUMENTS; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD PRESSURE; ELEVATED
PRESSURE; HIGH PRESSURE; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;

CESIUM CHLORIDES; LITHIUM CHLORIDES; POTASSIUM
IODIDES; SODIUM CHLORIDES.

635

MOMICCHIOLI 70
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMIC PROPERTIES OF CONCENTRATED
SOLUTIONS OF STRONG ELECTROLYTES. I. ACTIVITY
COEFFICIENTS OF WATER FROM FREEZING POINT
DEPRESSIONS FOR ALKALI CHLORIDES.

AUTHOR- MOMICCHIOLI, F.;DEVOTO, O.;GRANDI, G.;COCCO,
G.

REFERENCE- BER. BUNSENGES. PHYS. CHEM., V. 74 (1),
P. 59-66(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; MELTING POINT;
ACTIVITY COEFFICIENT; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; CESIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; WATER.

636

MOORE 72
SOLUTIONS/THERMODYNAMICS

TITLE- ISOPIESTIC STUDIES OF SOME AQUEOUS
ELECTROLYTE SOLUTIONS AT 80 DEGREES.

AUTHOR- MOORE, J.T.; HUMPHRIES, W.T.; PATTERSON, C.S.
[FURMAN UNIV., GREENVILLE, S.C. (USA). DEPT. OF
CHEMISTRY].

REFERENCE- J. CHEM. ENG. DATA, V. 17 (2), P.
180-182(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; OSMOTIC COEFFICIENT;
ISOPIESTIC MEASUREMENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; MODERATE TEMPERATURE;
BARIUM CHLORIDES; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; SODIUM SULFATES.

637

TITLE- SOLUBILITY IN THE FIVE COMPONENT SODIUM
CHLORIDE-POTASSIUM CHLORIDE-BARIUM
CHLORIDE-CALCIUM CHLORIDE-WATER SYSTEM AT 75
DEGREES..

AUTHOR- MOZHAROVA, T.V.;BOROVAYA, V.A.;PAVLYUCHENKO,
E.N.

REFERENCE- ZH. PRIKL. KHIM. (LENINGRAD), V. 47 (10),
P. 2200-2205(1974).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
SOLUBILITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; MODERATE TEMPERATURE; BARIUM
CHLORIDES; CALCIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; MIXTURES.

638

TITLE- CALORIMETRIC STUDY OF THE MELTING OF FROZEN
AQUEOUS ELECTROLYTE SOLUTIONS.

AUTHOR- MREVLISHVILI, G.M.;PRIVALOV, P.L. [ACADEMY
OF SCIENCES OF THE GEORGIA SSR (UZI). INST. OF
PHYSICS].

REFERENCE- ZH. STRUKT. KHIM., V. 9 (1), P.
8-11(1968).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ENTROPY; PARTIAL MOLAL SPECIFIC HEAT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; CALCIUM CHLORIDES; HYDROCHLORIC
ACID; LITHIUM CHLORIDES; POTASSIUM CHLORIDES;
POTASSIUM HYDROXIDES; SODIUM CHLORIDES; SODIUM
HYDROXIDES; WATER.

639

TITLE- THERMODYNAMIC ACTIVITIES OF POTASSIUM
CHLORIDE AND OF SILVER NITRATE DETERMINED BY
MEANS OF THERMOGALVANIC CELLS.

AUTHOR- MURGULESCU, I.G.;BARBULESCU,

F.;CONSTANTINESCU, E.

REFERENCE- REV. ROUM. CHIM., V. 13 (7), P.
841-849(1968).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; POTASSIUM CHLORIDES.

640

NAKAHARA 72
SOLUTIONS/MISC.

TITLE- IONIC SOLUTIONS UNDER HIGH PRESSURES. III.
PRESSURE AND TEMPERATURE EFFECTS ON THE
MOBILITIES OF K⁺ AND CL⁻ IONS.

AUTHOR- NAKAHARA, M.;SHIMIZU, K.;OSUGI, J. [KYOTO
UNIV. (JAPAN). FACULTY OF SCIENCE].

REFERENCE- REV. PHYS. CHEM. JPN., V. 42 (1), P.
12-24(1972).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DIELECTRIC CONSTANT; ELECTRIC CONDUCTIVITY;
HYDRATION NUMBER; LOW CONCENTRATION; STANDARD
PRESSURE; HIGH PRESSURE; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
POTASSIUM CHLORIDES; WATER.

641

NAKAHARA 72B
SOLUTIONS/MISC.

TITLE- IONIC SOLUTIONS UNDER HIGH PRESSURES. IV.
EFFECTS OF PRESSURE ON THE MOBILITIES AND
HYDRATION OF TETRABUTYLAMMONIUM (+),
TETRAMETHYLARMONIUM (+), POTASSIUM (+), AND
CHLORIDE IONS.

AUTHOR- NAKAHARA, M. [KYOTO UNIV. (JAPAN). FACULTY
OF SCIENCE].

REFERENCE- REV. PHYS. CHEM. JPN., V. 42 (2), P.
75-84(1972).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ELECTRIC CONDUCTIVITY; HYDRATION NUMBER;
TRANSFERENCE NUMBER; ION MOBILITY; LOW
CONCENTRATION; STANDARD PRESSURE; HIGH

PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; POTASSIUM
CHLORIDES; TETRAALKYLAMMONIUM COMPOUNDS.

642

NIENOW 68
SOLUTIONS/MISC.

TITLE- DIFFUSION AND MASS TRANSFER OF AMMONIUM AND
POTASSIUM CHLORIDE IN AQUEOUS SOLUTION.

AUTHOR- NIENOW, A.W.; UNAHABHOKHA, R.; MULLIN, J.W.

REFERENCE- J. APPL. CHEM. (LONDON), V. 18 (5), P.
154-156(1968).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DIFFUSION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; ELECTROLYTES; POTASSIUM CHLORIDES.

643

NOVIKOV 73
SOLUTIONS/MISC.

TITLE- EFFECT OF A COMMON ION ON THE ELECTROLYTIC
PROPERTIES AND SOLUBILITY OF SALTS IN WATER AT
HIGH TEMPERATURES.

AUTHOR- NOVIKOV, B.E.; KHAIBULLIN, I.KH. [ZHDANOV
LENINGRAD STATE UNIV. (USSR)].

REFERENCE- ZH. FIZ. KHIM., V. 47 (7), P.
1688-1690(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES;
SOLUBILITY; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; MODERATE PRESSURE; ELEVATED
PRESSURE; SODIUM CHLORIDES; SODIUM SULFATES;
MIXTURES.

644

GLEW 70
SOLUTIONS/MISC.

TITLE- GYPSUM, DISODIUM PENTACALCIUM SULFATE,
ANHYDRITE SOLUBILITIES IN CONCENTRATED NaCl

SOLUTIONS.

AUTHOR- GLEW, D.N.; HAMES, D.A. [DOW CHEMICAL OF CANADA LTD., SARNIA, ONTARIO].

REFERENCE- CAN. J. CHEM., V. 48 (23), P. 3733-3738(1970).

DESCRIPTORS- GRAPHS; TABLES; SOLUBILITY; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; MODERATE TEMPERATURE; CALCIUM SULFATES; SODIUM CHLORIDES; MIXTURES.

645

O'BRIEN 68
SOLUTIONS/VOLUMETRIC

TITLE- SOME ELECTROLYTE SOLUTION REFRACTIVE INDICES AT 5893 AND 6328 A.

AUTHOR- O'BRIEN, R.N. [ALBERTA UNIV., EDMONTON (CANADA). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. ENG. DATA, V. 13 (1), P. 2-5(1968).

DESCRIPTORS- TABLES; REFRACTIVE INDEX; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES; WATER.

646

OSTROFF 69
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- VISCOSITIES OF PROTONATED AND DEUTERATED WATER SOLUTIONS OF ALKALI METAL CHLORIDES.

AUTHOR- OSTROFF, A.G.; SNOWDEN, B.S.; WOESSNER, D.E. [MOBIL OIL CORP., DALLAS, TEX. (USA). FIELD RESEARCH LAB.].

REFERENCE- J. PHYS. CHEM., V. 73 (8), P. 2784-2785(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; GRAPHS; TABLES; DENSITY; VISCOSITY; ISOTOPE EFFECTS; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; ELECTROLYTES; CESIUM CHLORIDES; HEAVY WATER; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM

CHLORIDES; WATER.

647

OUTHWAITE 70
SOLUTIONS/THERMODYNAMICS

TITLE- LINEAR EXTENSION OF THE DEBYE-HUECKEL THEORY
OF ELECTROLYTE SOLUTIONS.

AUTHOR- OUTHWAITE, C.W. [SHEFFIELD UNIV. (UK). DEPT.
OF APPLIED MATHEMATICS].

REFERENCE- CHEM. PHYS. LETT., V. 5 (2), P.
77-79(1970).

DESCRIPTORS- THEORETICAL TREATMENTS.

648

PADOVA 70
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMICS OF MIXED CHLORIDE-NITRATE
SYSTEM FROM GLASS ELECTRODE MEASUREMENTS.

AUTHOR- PADOVA, J. [SOREQ NUCLEAR RESEARCH CENTER,
YAVNE (ISRAEL)].

REFERENCE- J. PHYS. CHEM., V. 74 (26), P.
4587-4590(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD TEMPERATURE; ELECTROLYTES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; POTASSIUM
NITRATES; SODIUM CHLORIDES; MIXTURES.

649

PEPELA 72
SOLUTIONS/THERMODYNAMICS

TITLE- VAPOR PRESSURES OF NaCl SOLUTIONS AT 25
DEGREES.

AUTHOR- PEPELA, C.N.; DUNLOP, P.J. [ADELAIDE UNIV.
(AUSTRALIA). DEPT. OF PHYSICAL AND INORGANIC
CHEMISTRY].

REFERENCE- J. CHEM. THERMODYN., V. 4 (2), P.
255-258(1972).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
VAPOR PRESSURE; OSMOTIC COEFFICIENT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; SODIUM CHLORIDES.

650

PEROVA 73
SOLUTIONS/MISC.

TITLE- SOLUBILITY POLYTHERM OF THE SULFATE COMPOSED
OF POTASSIUM MAGNESIUM AND CALCIUM CHLORIDES
AND SULFATES AND WATER.

AUTHOR- PEROVA, A.P. [AN UKRAINSKOJ SSR, KIEV. (UZ).
INST. OBSHCHEJ I NEORGANICHESKOJ KHMII].

REFERENCE- ZH. NEORG. KHM., V. 18 (9), P.
2531-2535(1973).

DESCRIPTORS- PHASE DIAGRAMS; SOLUBILITY; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; CALCIUM
CHLORIDES; CALCIUM SULFATES; MAGNESIUM
CHLORIDES; MAGNESIUM SULFATES; POTASSIUM
CHLORIDES; POTASSIUM SULFATES; MIXTURES.

651

PIKAL 70
SOLUTIONS/MISC.

TITLE- DIAPHRAGM CELL DIFFUSION STUDIES WITH SHORT
PREDIFFUSION TIMES.

AUTHOR- PIKAL, M.J. [TENNESSEE UNIV., KNOXVILLE
(USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 74 (23), P.
4165-4169(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; DIFFUSION; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE; SODIUM
CHLORIDES.

652

PLATFORD 67
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENTS IN THE SYSTEM
H₂O-NACL-MGSO₄ AT 25 DEGREES.

AUTHOR- PLATFORD, R.F. [BEDFORD INST. OF
OCEANOGRAPHY, DARTMOUTH, NOVA SCOTIA (CANADA).
FISHERIES RESEARCH BOARD OF CANADA].

REFERENCE- CAN. J. CHEM., V. 45 (8), P.
821-825(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT;
ISOPIESTIC MEASUREMENT; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; STANDARD TEMPERATURE;
MAGNESIUM SULFATES; SODIUM CHLORIDES; MIXTURES.

653

PLATFORD 73
SOLUTIONS/THERMODYNAMICS

TITLE- OSMOTIC COEFFICIENTS OF AQUEOUS SOLUTION OF
SEVEN COMPOUNDS AT 0 DEGREES C.

AUTHOR- PLATFORD, R.F. [CENTRE FOR INLAND WATERS,
BURLINGTON, ONTARIO (CANADA)].

REFERENCE- J. CHEM. ENG. DATA, V. 18, P.
215-217(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; ACTIVITY COEFFICIENT; OSMOTIC
COEFFICIENT; ISOPIESTIC MEASUREMENT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; CALCIUM CHLORIDES; MAGNESIUM
SULFATES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; SODIUM SULFATES; SULFURIC ACID;

654

PLATFORD 71
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMICS OF MIXED SALT SOLUTIONS.
EXCESS GIBBS ENERGIES OF MIXING FOR THE SIX
TERNARY SYSTEM FORMED FROM THE AQUEOUS
MAGNESIUM CHLORIDE, MAGNESIUM NITRATE, CALCIUM
CHLORIDE, AND CALCIUM NITRATE AT 25 DEGREES.

AUTHOR- PLATFORD, R.F. [CENTRE FOR INLAND WATERS,

BURLINGTON, ONTARIO (CANADA)].

REFERENCE- J. CHEM. THERMODYN., V. 3 (3), P.
319-324(1971).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; FREE
ENERGY; OSMOTIC COEFFICIENT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES;
MAGNESIUM CHLORIDES; MIXTURES.

655

PLATFORD 68
SOLUTIONS/THERMODYNAMICS

TITLE- ISOPIESTIC MEASUREMENTS ON THE SYSTEM
H₂O-NACL-NA₂SO₄ AT 25 DEGREES C.

AUTHOR- PLATFORD, R.F.

REFERENCE- J. CHEM. ENG. DATA, V. 13 (1), P.
46-48(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT;
ISOPIESTIC MEASUREMENT; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD TEMPERATURE; SODIUM CHLORIDES; SODIUM
SULFATES; MIXTURES.

656

POLOZOVA 68
SOLUTIONS/MISC.

TITLE- EFFECT OF ADDED SALTS ON THE PARAMETERS IN
THE FLUIDITY EQUATION FOR WATER, AQUEOUS
ETHANOL, AND AQUEOUS DIOXANE AND THE
COMPENSATION EFFECT.

AUTHOR- POLOZOVA, I.P.; SAPOZHNIKOVA, N.V. [KIROV
URAL POLYTECHNIC INST. SVEROLOVSK (UZ)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 42 (2), P.
169-171(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
VISCOSITY; ELEVATED CONCENTRATION; STANDARD
TEMPERATURE; ELECTROLYTES; POTASSIUM BROMIDES;
POTASSIUM CHLORIDES; POTASSIUM IODIDES;
POTASSIUM SULFATES; SODIUM CHLORIDES; SODIUM
SULFATES.

657

POSTLER 70
SOLUTIONS/MISC.

TITLE- CONDUCTANCE OF CONCENTRATED AQUEOUS SOLUTIONS OF ELECTROLYTES. I. STRONG UNIVALENT ELECTROLYTES.

AUTHOR- POSTLER, M. [INST. OF CHEMICAL TECHNOLOGY, PRAGUE (CZ). DEPT. OF TECHNOLOGY OF NUCLEAR FUELS AND RADIOCHEMISTRY].

REFERENCE- COLLECT. CZECH. CHEM. COMMUN., V. 35 (2), P. 535-544(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; GRAPHS; TABLES; ELECTRIC CONDUCTIVITY; VISCOSITY; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; ELECTROLYTES; LITHIUM CHLORIDES; LITHIUM IODIDES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; POTASSIUM FLUORIDES; POTASSIUM IODIDES; SODIUM BROMIDES; SODIUM CHLORIDES; SODIUM IODIDES; SODIUM NITRATES; SODIUM CHLORATES.

658

RABINOVICH 67
SOLUTIONS/THERMODYNAMICS

TITLE- REAL THERMODYNAMIC SINGLE ION ACTIVITY IN ELECTROLYTE SOLUTIONS.

AUTHOR- RABINOVICH, V.A.; NIKEROV, A.E.; ROTSTEIN, V.P. [HERZEN PEDAGOGICAL INST., LENINGRAD (USSR)].

REFERENCE- ELECTROCHIM. ACTA., V. 12 (2), P. 155-159(1967).

DESCRIPTORS- GRAPHS; ACTIVITY COEFFICIENT; STANDARD TEMPERATURE; POTASSIUM BROMIDES; POTASSIUM CHLORIDES.

659

RASHKOVSKAYA 72B
SOLUTIONS/MISC.

TITLE- SOLUBILITY IN AN AQUEOUS SYSTEM COMPOSED OF
SODIUM, CALCIUM, AND BARIUM CHLORIDES AT 25
DEGREES.

AUTHOR- RASHKOVSKAYA, E.A.;BRATASH, E.G. [SCIENTIFIC
RESEARCH INSTITUTE OF FUNDAMENTAL CHEMISTRY,
KHAR'KOV (USSR)].

REFERENCE- ZH. PRIKL. KHIM. (LENINGRAD), V. 45 (7),
P. 1598-1601(1972).

DESCRIPTORS- EXPERIMENTAL RESULTS.

660

RASHKOVSKAYA 67
SOLUTIONS/VOLUMETRIC

TITLE- METHODS FOR DENSITY CALCULATION OF
SODA-PRODUCTION SOLUTIONS. II..

AUTHOR- RASHKOVSKAYA, E.A.;CHERNEN'KAYA, E.I.
[SCIENTIFIC RESEARCH INSTITUTE OF FUNDAMENTAL
CHEMISTRY, KHAR'KOV (USSR)].

REFERENCE- ZH. PRIKL. KHIM., V. 40 (6), P.
1190-1196(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; LOW TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; CALCIUM CHLORIDES; MAGNESIUM
CHLORIDES; SODIUM CHLORIDES; MIXTURES.

661

RASTOGI 70
SOLUTIONS/MISC.

TITLE- PRECIPITATION AND DISSOLUTION POTENTIALS.

AUTHOR- RASTOGI, R.P.;SHUKLA, R.D. [GORAKHPUR UNIV.
(INDIA). DEPT. OF CHEMISTRY].

REFERENCE- J. APPL. PHYS., V. 41 (7), P.
2787-2795(1970).

DESCRIPTORS- GRAPHS; TABLES; ELECTROMOTIVE FORCE;
FREEZING POTENTIAL; LOW TEMPERATURE; MODERATE
TEMPERATURE; BARIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

RENKERT 70
SOLUTIONS/MISC.

TITLE- ELECTRICAL CONDUCTIVITY OF AQUEOUS SOLUTIONS
AT HIGH TEMPERATURES AND PRESSURES. IV.
POTASSIUM CHLORIDE \leq 350 DEGREES AND 8 KILO
BARS.

AUTHOR- RENKERT, H.;FRANCK, E.U. [KARLSRUHE UNIV.
(TH) (F. R. GERMANY). INST. FUER PHYSIKALISCHE
CHEMIE UND ELEKTROCHEMIE].

REFERENCE- BER. BUNSENGES. PHYS. CHEM., V. 74 (1),
P. 40-42(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ELECTRIC CONDUCTIVITY; HIGH PRESSURE; ELEVATED
TEMPERATURE; POTASSIUM CHLORIDES.

RITZERT 68
SOLUTIONS/MISC.

TITLE- ELECTRICAL CONDUCTIVITY OF AQUEOUS SOLUTIONS
AT HIGH TEMPERATURES AND PRESSURES. I.
ELECTROLYTIC CONDUCTIVITY OF POTASSIUM
CHLORIDE, BARIUM CHLORIDE, BARIUM HYDROXIDE,
AND MAGNESIUM SULFATE UP TO 750 DEGREES AND 6
KILOBARS.

AUTHOR- RITZERT, G.;FRANCK, E.U. [KARLSRUHE UNIV.
(TH) (F. R. GERMANY). INST. FUER PHYSIKALISCHE
CHEMIE UND ELEKTROCHEMIE].

REFERENCE- BER. BUNSENGES. PHYS. CHEM., V. 72 (7),
P. 798-808(1968).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DISSOCIATION; ELECTRIC CONDUCTIVITY;
EQUILIBRIUM CONSTANT; LOW CONCENTRATION;
MODERATE TEMPERATURE; ELEVATED TEMPERATURE;
HIGH TEMPERATURE; ELECTROLYTES; BARIUM
CHLORIDES; MAGNESIUM SULFATES; POTASSIUM
CHLORIDES.

ROBBINS 68
SOLUTIONS/THERMODYNAMICS

TITLE- DETERMINATION OF $\Delta G(KCl)$ (MIXING) FOR THE SYSTEM BARIUM CHLORIDE-POTASSIUM CHLORIDE, STRONTIUM CHLORIDE-KCL, AND CALCIUM CHLORIDE-KCL AND $\Delta S(KCl)$ (MIXING) FOR THE SYSTEM $BaCl_2-KCl$ AND $SrCl_2-KCl$.

AUTHOR- ROBBINS, G.D.; FOERLAND, T.; ØESTVOLD, T. [TRONDHEIM UNIV. (NORWAY)].

REFERENCE- ACTA CHEM. SCAND., V. 22 (9), P. 3002-3012(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES; ELECTROMOTIVE FORCE; MIXING HEAT; MIXING ENTROPY; MIXING FREE ENERGY; HIGH TEMPERATURE; BARIUM CHLORIDES; CALCIUM CHLORIDES; SODIUM CHLORIDES; STRONTIUM CHLORIDES; MIXTURES.

665

ROBERTS 71
SOLUTIONS/MISC.

TITLE- PROTON MOBILITY IN AQUEOUS SOLUTION OF SOME ALKALI HALIDES.

AUTHOR- ROBERTS, N.K.; NORTHEY, H.L. [TASMANIA UNIV., SANDY BAY (AUSTRALIA)].

REFERENCE- J. CHEM. SOC. A, V. 1971 (16), P. 2572-2574(1971).

DESCRIPTORS- GRAPHS; ION MOBILITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; ELECTROLYTES; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

666

ROBINSON 69
SOLUTIONS/THERMODYNAMICS

TITLE- ISOPIESTIC VAPOR PRESSURE STUDY OF THE SYSTEM POTASSIUM CHLORIDE- $NaCl$ IN D_2O SOLUTION AT 25 DEGREES.

AUTHOR- ROBINSON, R.A.

REFERENCE- J. PHYS. CHEM., V. 73 (9), P. 3165-3166(1969).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS; OSMOTIC COEFFICIENT; ISOPIESTIC MEASUREMENT; ELEVATED

CONCENTRATION; HIGH CONCENTRATION; HEAVY WATER;
POTASSIUM CHLORIDES; SODIUM CHLORIDES; WATER;
MIXTURES.

667

ROBINSON 71
SOLUTIONS/THERMODYNAMICS

TITLE- CALCULATION OF EXCESS GIBBS ENERGIES AND
ACTIVITY COEFFICIENTS FROM ISOPIESTIC
MEASUREMENTS OF LITHIUM AND SODIUM SALTS.

AUTHOR- ROBINSON, R.A.; WOOD, R.H.; REILLY, P.J.

REFERENCE- J. CHEM. THERMODYN., V. 3 (4), P.
461-471(1971).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; OSMOTIC COEFFICIENT;
ISOPIESTIC MEASUREMENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; LITHIUM CHLORIDES; SODIUM
CHLORIDES; SODIUM NITRATES; MIXTURES.

668

ROBINSON 71B
SOLUTIONS/THERMODYNAMICS

TITLE- OSMOTIC COEFFICIENTS OF AQUEOUS SOLUTIONS OF
CALCIUM CHLORIDE AND CALCIUM PERCHLORATE AT 25
DEGREES.

AUTHOR- ROBINSON, R.A.; LIM, C.K.

REFERENCE- J. CHEM. ENG. DATA, V. 16 (2), P.
203-204(1971).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
OSMOTIC COEFFICIENT; ISOPIESTIC MEASUREMENT;
STANDARD TEMPERATURE; ELECTROLYTES; CALCIUM
CHLORIDES; MIXTURES.

669

QUINT 69
SOLUTIONS/MISC.

TITLE- ELECTRICAL CONDUCTIVITY OF BINARY ELECTROLYTE

MIXTURES (1/1) IN AQUEOUS SOLUTION. (IN FRENCH).

AUTHOR- QUINT, J.;VIALLARD, A. [FACULTE DES SCIENCES, PUY-DE-DOME (FRANCE). LABORATOIRE DE CHIMIE PHYSIQUE II].

REFERENCE- C. R. ACAD. SCI., PARIS, SEC. C, V. 268 (25), P. 2153-2156(1969).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS; ELECTRIC CONDUCTIVITY; ELECTROLYTES; MIXTURES.

670

SAFFORD 69
SOLUTIONS/MISC.

TITLE- INVESTIGATION OF LOW-FREQUENCY MOTIONS OF WATER MOLECULES IN IONIC SOLUTIONS BY NEUTRON INELASTIC SCATTERING.

AUTHOR- SAFFORD, G.J.;LEUNG, P.S.;NAUMANN, A.W.;SCHAFER, P.C. [UNION CARBIDE CORP., TUXEDO, N.Y. (USA). STERLING FOREST RESEARCH CENTER].

REFERENCE- J. CHEM. PHYS., V. 50 (10), P. 4444-4467(1969).

DESCRIPTORS- GRAPHS; TABLES; DIFFUSION; NEUTRON SCATTERING; LOW TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES; CESIUM CHLORIDES; LITHIUM CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES; WATER.

671

SAHU 69
SOLUTIONS/MISC.

TITLE- IONIC EQUILIBRIUMS IN AQUEOUS SOLUTION OF THE CHLORIDES OF MAGNESIUM, CALCIUM, STRONTIUM, AND BARIUM.

AUTHOR- SAHU, G.;PRASAD, B. [PATNA UNIV. (INDIA). CHEMICAL LAB.].

REFERENCE- J. INDIAN CHEM., V. 46 (10), P. 933-934(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ELECTROMOTIVE FORCE; LOW CONCENTRATION; MODERATE CONCENTRATION; LOW TEMPERATURE;

STANDARD TEMPERATURE; MODERATE TEMPERATURE;
BARIUM CHLORIDES; CALCIUM CHLORIDES;
HYDROCHLORIC ACID; MAGNESIUM CHLORIDES;
STRONTIUM CHLORIDES; MIXTURES.

672

SALOMAA 71
SOLUTIONS/THERMODYNAMICS

TITLE- STANDARD FREE ENERGY OF TRANSFER OF POTASSIUM
CHLORIDE FROM LIGHT TO HEAVY WATER FROM
SOLUBILITIES OF SPARINGLY SOLUBLE SALTS.

AUTHOR- SALOMAA, P.; MATTSEN, M. [TURKU UNIV.
(FINLAND). DEPT. OF CHEMISTRY].

REFERENCE- ACTA CHEM. SCAND., V. 25 (1), P.
361-363(1971).

DESCRIPTORS- TABLES; FREE ENERGY; STANDARD
TEMPERATURE; ELECTROLYTES; HEAVY WATER;
POTASSIUM CHLORIDES; WATER.

673

SALVINIEN 67
SOLUTIONS/MISC.

TITLE- CONDUCTIVITY OF CONCENTRATED SALINE SOLUTIONS
AS A FUNCTION OF TEMPERATURE AND PRESSURE.

AUTHOR- SALVINIEN, J.; MOLENAT, J. [FACULTE DES
SCIENCES, MONTPELLIER, HERAULT (FRANCE).
LABORATOIRE DE CHIMIE PHYSIQUE].

REFERENCE- C. R. ACAD. SCI., PARIS, SER. C, V. 265
(14), P. 685-687(1967).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; ELECTRIC
CONDUCTIVITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; ELEVATED
PRESSURE; HIGH PRESSURE; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; SODIUM CHLORIDES.

674

SAMOILOV 68
SOLUTIONS/THERMODYNAMICS

TITLE- ISOTOPIC EFFECT OF THE HEATS OF
SELF-SALTING-OUT FROM AQUEOUS SOLUTIONS. (IN
RUSSIAN).

AUTHOR- SAMOILOV, O.YA. [AN SSSR, MOSCOW. INST.
OBSHCHEJ I NEORGANICHESKOJ KHIMII].

REFERENCE- ZH. STRUKT. KHIM., V. 9 (2), P.
193-197(1968).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ISOTOPE EFFECTS; SOLUTION HEAT; HIGH
CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; BARIUM CHLORIDES; CALCIUM
CHLORIDES; HEAVY WATER; LITHIUM CHLORIDES;
POTASSIUM BROMIDES; POTASSIUM CHLORIDES;
POTASSIUM IODIDES; SODIUM CHLORIDES; WATER.

675

SAMOILOV 69
SOLUTIONS/MISC.

TITLE- DEPENDENCE OF SALTING-OUT ON THE HYDRATION OF
THE SALTING-OUT AGENT CATION ACCORDING TO
THERMOCHEMICAL DATA.

AUTHOR- SAMOILOV, O.YA.;BUSLAEVA, M.N.;DUDNIKOVA,
K.T.;BRYUSHKOVA, N.V.

REFERENCE- ZH. STRUKT. KHIM., V. 10 (4), P.
580-582(1969).

DESCRIPTORS- REVIEWS; GRAPHS; SOLUBILITY; NUCLEAR
MAGNETIC RESONANCE; STANDARD PRESSURE; STANDARD
TEMPERATURE; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

676

SAMOILOV 71
SOLUTIONS/MISC.

TITLE- CHANGE IN ION SOLVATION DURING TRANSFER FROM
SOLUTIONS IN WATER TO SOLUTIONS IN HEAVY WATER.
(IN RUSSIAN).

AUTHOR- SAMOILOV, O.YA.;YASTREMSKII, P.S. [AN SSSR,
MOSCOW. INST. OBSHCHEJ I NEORGANICHESKOJ

REFERENCE- ZH. STRUKT. KHIM., V. 12 (3), P.
379-386(1971).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DIELECTRIC CONSTANT; ISOTOPE EFFECTS; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; HEAVY WATER; LITHIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES; WATER.

677

SCHOLANDER 67
SOLUTIONS/MISC.

TITLE- OSMOTIC MECHANISM AND NEGATIVE PRESSURE.

AUTHOR- SCHOLANDER, P.F. [SCRIPPS INSTITUTION OF
OCEANOGRAPHY, LA JOLLA, CALIF. (USA)].

REFERENCE- SCIENCE, V. 156 (3771), P. 67-69(1967).

DESCRIPTORS- VAPOR PRESSURE; OSMOTIC COEFFICIENT;
ELECTROLYTES.

678

SCHRIER 73
SOLUTIONS/THERMODYNAMICS

TITLE- GIBBS FREE ENERGY RELATIONS IN SODIUM
CHLORIDE + D2O AND SODIUM CHLORIDE + ACETONE +
D2O SOLUTIONS.

AUTHOR- SCHRIER, M.Y.; SCHRIER, E.E. [NEW YORK STATE
UNIV., BINGHAMTON (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. THERMODYN., V. 5, P.
811-817(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD TEMPERATURE; HEAVY WATER; SODIUM
CHLORIDES.

679

SCHWABE 69
SOLUTIONS/THERMODYNAMICS

TITLE- DETERMINATION OF THE ACTIVITY OF SODIUM
CHLORIDE SOLUTION CONTAINING FOREIGN SALTS FROM

CELL VOLTAGE MEASUREMENTS WITH SODIUM
CATION-SENSITIVE GLASS ELECTRODES. (IN
GERMAN).

AUTHOR- SCHWABE, K.; DWOJAK, J. [TECHNISCHE UNIV.
DRESDEN (F. R. GERMANY). INST. FUR
ELEKTROCHEMIE UND PHYSIKALISCHE CHEMIE].

REFERENCE- Z. PHYS. CHEM. (FRANKFURT AM MAIN), V. 64
(1-4), P. 1-11(1969).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ACTIVITY COEFFICIENT; FUGACITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; ELECTROLYTES; IONS; SODIUM
CHLORIDES.

680

SELECKI 70
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- VISCOSITY OF SOLUTIONS OF SOME ELECTROLYTES
IN HEAVY WATER.

AUTHOR- SELECKI, A.; TYMINSKI, B.; CHMIELEWSKI, A.G.
[WARSAW UNIV. (POLAND)].

REFERENCE- J. CHEM. ENG. DATA, V. 15 (1), P.
127-130(1970).

DESCRIPTORS- TABLES; DENSITY; VISCOSITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; HEAVY WATER; LITHIUM CHLORIDES;
POTASSIUM BROMIDES; POTASSIUM CHLORIDES;
POTASSIUM IODIDES; SODIUM CARBONATES.

681

SELECKI 70B
SOLUTIONS/MISC.

TITLE- SOLUBILITIES AND REFRACTIVE INDICES OF SOME
INORGANIC SALTS IN HEAVY WATER.

AUTHOR- SELECKI, A.; TYMINSKI, B.; MARIANKOWSKA, B.
[WARSAW UNIV. (POLAND)].

REFERENCE- J. CHEM. ENG. DATA, V. 15 (1), P.
130-134(1970).

DESCRIPTORS- GRAPHS; TABLES; REFRACTIVE INDEX;

SOLUBILITY; HIGH CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; HEAVY WATER; LITHIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

682

SHATKAY 67
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENTS OF CALCIUM IONS IN
MIXED SOLUTIONS.

AUTHOR- SHATKAY, A. [WEIZMANN INST. OF SCIENCE,
REHOVOTH (ISRAEL). DEPT. OF ISOTOPES].

REFERENCE- J. PHYS. CHEM., V. 71 (12), P.
3858-3861(1967).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
EQUILIBRIUM CONSTANT; ACTIVITY COEFFICIENT;
FUGACITY; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; IONS;
CALCIUM CHLORIDES; MAGNESIUM CHLORIDES; SODIUM
CHLORIDES; MIXTURES.

683

SHATKAY 69
SOLUTIONS/THERMODYNAMICS

TITLE- INDIVIDUAL ACTIVITIES OF NA AND CL ION IN
AQUEOUS SOLUTIONS OF NA CL.

AUTHOR- SHATKAY, A. [WEIZMANN INST. OF SCIENCE,
REHOVOTH (ISRAEL). DEPT. OF ISOTOPES].

REFERENCE- ANAL. CHEM., V. 41 (3), P. 514-517(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; ELECTROMOTIVE FORCE;
ACTIVITY COEFFICIENT; LOW CONCENTRATION;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE; IONS;
SODIUM CHLORIDES.

684

SHATKAY 70
SOLUTIONS/THERMODYNAMICS

TITLE- INDIVIDUAL ION ACTIVITIES IN PURE AQUEOUS
SODIUM CHLORIDE SOLUTION.

AUTHOR- SHATKAY, A. [WEIZMANN INST. OF SCIENCE,
REHOVOTH (ISRAEL). DEPT. OF ISOTOPES].

REFERENCE- TALANTA, V. 17 (5), P. 381-390(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; IONS; SODIUM
CHLORIDES.

685

SHATKAY 70B
SOLUTIONS/THERMODYNAMICS

TITLE- INDIVIDUAL ACTIVITIES OF Ca^{+2} AND Cl^{-} IONS IN
PURE AQUEOUS SOLUTIONS OF CALCIUM CHLORIDE.

AUTHOR- SHATKAY, A. [WEIZMANN INST. OF SCIENCE,
REHOVOTH (ISRAEL). DEPT. OF ISOTOPES].

REFERENCE- ELECTROCHIM. ACTA, V. 15 (11), P.
1759-1767(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; IONS; CALCIUM CHLORIDES.

686

SHEVCHUK 67
SOLUTIONS/MISC.

TITLE- THE $LiCl-MgCl_2-CaCl_2-H_2O$ SYSTEM AT 25
DEGREES.

AUTHOR- SHEVCHUK, V.G.; VAISFELD, M.I. [POLTAVO
CIVIL ENGINEERING INST. (USSR). DEPT. OF
CHEMISTRY].

REFERENCE- ZH. NEORG. KHIM., V. 12 (4), P.
1064-1068(1967).

DESCRIPTORS- GRAPHS; TABLES; PHASE DIAGRAMS;
SOLUBILITY; HIGH CONCENTRATION; STANDARD
TEMPERATURE; CALCIUM CHLORIDES; LITHIUM
CHLORIDES; MAGNESIUM CHLORIDES; MIXTURES.

687

GLUECKAUF 69
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROSTATIC INTERACTIONS IN ELECTROLYTE
SOLUTIONS.

AUTHOR- GLUECKAUF, E.

REFERENCE- PROC. R. SOC. LONDON, SER. A, V. 310
(1503), P. 449-462(1969).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
GRAPHS; ACTIVITY COEFFICIENT; OSMOTIC
COEFFICIENT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; ELECTROLYTES; LITHIUM CHLORIDES;
SODIUM CHLORIDES.

688

TIMOSHENKO 73
SOLUTIONS/MISC.

TITLE- POTASSIUM CHLORIDE-NACL-MGCL2-H2O SYSTEM AT
THE BOILING POINTS OF ITS SOLUTIONS.

AUTHOR- TIMOSHENKO, YU.M.; ULAKHOVICH, N.A.

REFERENCE- ZH. NEORG. KHIM., V. 18 (2), P.
571-572(1973).

DESCRIPTORS- BOILING POINT; PHASE DIAGRAMS;
SOLUBILITY; ELEVATED TEMPERATURE; MAGNESIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; MIXTURES.

689

SHOR 68
SOLUTIONS/MISC.

TITLE- REVERSE OSMOSIS APPLIED TO THE RECOVERY OF
WATER FROM AQUEOUS SALT SOLUTIONS.

AUTHOR- SHOR, S.M.; THODOS, G. [NORTHWESTERN UNIV.,
EVANSTON, ILL. (USA)].

REFERENCE- J. APPL. CHEM. (LONDON), V. 18 (12), P.
322-326(1968).

DESCRIPTORS- GRAPHS; TABLES; OSMOTIC PRESSURE;
SEMIPERMEABLE MEMBRANES; MODERATE PRESSURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
BARIUM CHLORIDES; CALCIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; STRONTIUM CHLORIDES.

690

SNIPES 75
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF DILUTION OF AQUEOUS ELECTROLYTES.
TEMPERATURE DEPENDENCE.

AUTHOR- SNIPES, H.P.; MANLY, C.; ENSOR, D.D. [NORTH
CAROLINA UNIV., GREENSBORO (USA). DEPT. OF
CHEMISTRY].

REFERENCE- J. CHEM. ENG. DATA, V. 20 (3), P.
287-291(1975).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; ACTIVITY COEFFICIENT; DILUTION
HEAT; ENTHALPY; OSMOTIC COEFFICIENT; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; MAGNESIUM
CHLORIDES; MAGNESIUM SULFATES; POTASSIUM
CHLORIDES; SODIUM SULFATES.

691

SOROKIN 70
SOLUTIONS/THERMODYNAMICS

TITLE- CONSTRUCTION OF A CALORIMETRIC VESSEL FOR
THERMOCHEMICAL STUDIES AT HIGH TEMPERATURES.

AUTHOR- SOROKIN, V.N.; GORBACHEV, S.V. [MENDELEEV
MOSCOW INSTITUTE OF CHEMICAL ENGINEERING

REFERENCE- TR. MOSK KHIM.-TEKHNOL. INST., NO. 65, P.
230-232(1970).

DESCRIPTORS- GRAPHS; SPECIFIC HEAT; MEASURING
INSTRUMENTS; CALORIMETERS; ELEVATED
CONCENTRATION; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SODIUM CHLORIDES.

SPALDING 68
SOLUTIONS/MISC.

TITLE- DIFFUSION POTENTIAL DECAY ACCOMPANYING
TRANSIENT STATE DIFFUSION OF ELECTROLYTES IN
IDEAL SOLUTIONS.

AUTHOR- SPALDING, G.E. [UT-AEC AGRICULTURAL RESEARCH
LAB., OAK RIDGE, TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 72 (1), P.
272-277(1968).

DESCRIPTORS- THEORETICAL TREATMENTS; GRAPHS; TABLES;
DIFFUSION; ELECTROMOTIVE FORCE; MEASURING
INSTRUMENTS; ELEVATED CONCENTRATION; STANDARD
TEMPERATURE; SODIUM CHLORIDES.

STAKHANOVA 67
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMIC PROPERTIES OF MIXED ELECTROLYTE
SOLUTIONS. II. TEMPERATURE DEPENDENCE OF THE
HEATS OF MIXING FOR $\text{LiCl-H}_2\text{O}+\text{CsCl-H}_2\text{O}$,
 $\text{LiCl-H}_2\text{O}+\text{RbCl-H}_2\text{O}$, $\text{LiCl-H}_2\text{O}+\text{KCl-H}_2\text{O}$ SYSTEMS.

AUTHOR- STAKHANOVA, M.S.; KARAPET'YANTS,
M.KH.; BAZLOVA, I.V.; VLASENKO, K.K. [MENDELEEV
MOSCOW INSTITUTE OF CHEMICAL TECHNOLOGY (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 41 (9), P.
1273-1275(1967).

DESCRIPTORS- GRAPHS; TABLES; MIXING HEAT; MODERATE
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; CESIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; MIXTURES.

STASTNY 69
SOLUTIONS/MISC.

TITLE- CONCENTRATION DEPENDENCE OF THE DIFFUSION
COEFFICIENT OF HYDROGEN IONS IN AQUEOUS
SOLUTIONS OF ALKALI METAL SALTS.

AUTHOR- STASTNY, M.; STRAFELDA, F. [INST. OF CHEMICAL TECHNOLOGY (CZ). DEPT. OF INSTRUMENTAL

REFERENCE- COLLECT. CZECH. CHEM. COMMUN., V. 34 (1), P. 168-176(1969).

DESCRIPTORS- GRAPHS; DIFFUSION; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; IONS; HYDROCHLORIC ACID; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

695

STORONKIN 67
SOLUTIONS/THERMODYNAMICS

TITLE- AQUEOUS SOLUTIONS OF STRONG ELECTROLYTES. IV. ACTIVITY OF HCL IN THE HCL-H₂SO₄-H₂O SYSTEM AND NA₂SO₄ IN THE NA₂SO₄-H₂O SYSTEM.

AUTHOR- STORONKIN, A.V.; SHUL'TS, M.M.; LAGUNOV, M.D.; OKATOV, M.A. [ZH₂DANOV LENINGRAD STATE UNIV. (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 41 (5), P. 541-543(1967).

DESCRIPTORS- TABLES; ELECTROMOTIVE FORCE; ACTIVITY COEFFICIENT; LOW CONCENTRATION; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; HYDROCHLORIC ACID; SODIUM CHLORIDES; SODIUM SULFATES; SULFURIC ACID; MIXTURES.

696

SUKHOTIN 69
SOLUTIONS/MISC.

TITLE- ION TRANSPORT NUMBERS IN CONCENTRATES KCL, NA₂CO₃, KNO₃, AND NA₂SO₄ SOLUTIONS AT 5, 25 AND 40 DEGREES. (IN RUSSIAN).

AUTHOR- SUKHOTIN, A.M.; KAZANKINA, A.F.; POVESHCHENKO, I.A. [LENINGRAD INSTITUTE OF APPLIED CHEMISTRY (USSR)].

REFERENCE- ELEKTROKIMIYA, V. 5 (1), P. 114-116(1969).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS; TRANSFERENCE NUMBER; HIGH CONCENTRATION; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE

TEMPERATURE; POTASSIUM CHLORIDES; POTASSIUM
NITRATES; SODIUM CHLORIDES; SODIUM NITRATES;
SODIUM CHLORATES.

697

SUKHOTIN 71
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- TRANSLATIONAL HYDRATION COEFFICIENTS OF IONS.
II. EXPERIMENTAL RESULTS. (IN RUSSIAN).

AUTHOR- SUKHOTIN, A.M.; KAZANKINA, A.F. [STATE
INSTITUTE OF APPLIED CHEMISTRY, LENINGRAD
(USSR)].

REFERENCE- ELEKTROKIMIYA, V. 7 (7), P.
932-938(1971).

DESCRIPTORS- GRAPHS; TABLES; DENSITY; TRANSFERENCE
NUMBER; PYCNOMETERS; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; CALCIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; MIXTURES.

698

SVORONOS 69
SOLUTIONS/MISC.

TITLE- CRYSTALLIZATION OF POTASSIUM CHLORIDE IN
AQUEOUS SOLUTION.

AUTHOR- SVORONOS, D.R. [SORBONNE, LABORATOIRE DE
CHIMIE MINERALE, PARIS (FRANCE)].

REFERENCE- C. R. ACAD. SCI., SER. C, V. 269 (2), P.
133-136(1969).

DESCRIPTORS- GRAPHS; SOLUBILITY; LOW TEMPERATURE;
MODERATE TEMPERATURE; CALCIUM CHLORIDES;
MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES;
POTASSIUM NITRATES; MIXTURES.

699

SYNNOTT 68
SOLUTIONS/THERMODYNAMICS

TITLE- MEAN ACTIVITY COEFFICIENT OF SODIUM SULFATE
IN AQUEOUS Na_2SO_4 - NaCl ELECTROLYTES.

AUTHOR- SYNNOTT, J.C.; BUTLER, J.N. [TYCO LABS.,
INC., WALTHAM, MASS. (USA)].

REFERENCE- J. PHYS. CHEM., V. 72 (7), P.
2474-2477(1968).

DESCRIPTORS- GRAPHS; TABLES; ELECTROMOTIVE FORCE;
ACTIVITY COEFFICIENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
SODIUM CHLORIDES; SODIUM SULFATES; MIXTURES.

700

SYRNIKOV 71
SOLUTIONS/THERMODYNAMICS

TITLE- HEAT CAPACITY OF AQUEOUS ELECTROLYTE
SOLUTIONS.

AUTHOR- SYRNIKOV, YU.P. [LENINGRAD WOOD TECHNOLOGY
ACADEMY (USSR)].

REFERENCE- ZH. STRUKT. KHIM., V. 12 (6), P.
1082-1084(1971).

DESCRIPTORS- GRAPHS; SPECIFIC HEAT; MODERATE
CONCENTRATION; BARIUM CHLORIDES; LITHIUM
CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM BROMIDES; SODIUM CHLORIDES.

701

TAKAGI 69
SOLUTIONS/MISC.

TITLE- PHENOMENOLOGICAL COEFFICIENTS IN ISOTHERMAL
DIFFUSION SYSTEMS AND THEIR CONDUCTIVITIES.

AUTHOR- TAKAGI, R.; MOCHINAGA, J. [TOKYO INST. OF
TECH. (JAPAN)].

REFERENCE- DENKI KAGAKU DYOKI KOGYO BUTSURI KAGAKU,
V. 37 (10), P. 722-724(1969).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; TABLES; DIFFUSION; ELECTRIC
CONDUCTIVITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; MIXTURES.

702

TAMAS 66
SOLUTIONS/MISC.

TITLE- DIFFUSION OF H₂O(18) MOLECULES IN CERTAIN
AQUEOUS SALT SOLUTIONS.

AUTHOR- TAMAS, J.; UJSZASZY, K. [MAGYAR TUDOMANYOS
AKADEMIA, BUDAPEST].

REFERENCE- MAG. KEM. FOLY., V. 72 (10), P.
447-453(1966).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; DIFFUSION; ISOTOPE
EFFECTS; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; CALCIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM IODIDES; WATER.

703

TARABAEV 67
SOLUTIONS/MISC.

TITLE- CALCULATION FOR DETERMINING THE LIMITING STEP
OF HETEROGENOUS PROCESSES. RATE OF SOLUTION OF
GALENA. (IN RUSSIAN).

AUTHOR- TARABAEV, S.I. [ACADEMY OF SCIENCES OF THE
KAZAKH SSR (USSR). INST. OF METALLURGY AND
BENEFICATION].

REFERENCE- ZH. PRIKL. KHIM., V. 40 (7), P.
1527-1530(1967).

DESCRIPTORS- KINETICS.

704

TIMOSHENKO 73B
SOLUTIONS/MISC.

TITLE- SOLUBILITY IN AN AQUEOUS SYSTEM CONTAINING
POTASSIUM AND MAGNESIUM CHLORIDES AND SULFATES
AT THE BOILING POINTS OF ITS SOLUTIONS.

AUTHOR- TIMOSHENKO, YU.M. [KAZAN' STATE UNIV.

REFERENCE- RUSS. J. INORG. CHEM., V. 18 (3), P.

449-450(1973).

DESCRIPTORS- TABLES; BOILING POINT; PHASE DIAGRAMS;
SOLUBILITY; ELEVATED TEMPERATURE; MAGNESIUM
CHLORIDES; MAGNESIUM SULFATES; POTASSIUM
CHLORIDES; POTASSIUM SULFATES; MIXTURES.

705

TIMOSHENKO 74
SOLUTIONS/MISC.

TITLE- SOLUBILITY IN SYSTEMS COMPOSED OF SODIUM AND
POTASSIUM CARBONATES AND SULFATES AND WATER AT
35 AND 100 .DEGREE. AND OF SODIUM AND POTASSIUM
CARBONATES AND CHLORIDES AND WATER AT 75 AND
100 .DEGREES..

AUTHOR- TIMOSHENKO, V.V.; ZUBKOVA, E.M.; MESHKOVA,
L.V. [SCIENTIFIC RESEARCH INSTITUTE OF
FUNDAMENTAL CHEMISTRY, KHAR'KOV (USSR)].

REFERENCE- ZH. PRIKL. KHIM. (LENINGRAD), V. 47 (8),
P. 1848-1851(1974).

DESCRIPTORS- GRAPHS; TABLES; SOLUBILITY; MODERATE
TEMPERATURE; POTASSIUM CARBONATES; POTASSIUM
CHLORIDES; POTASSIUM SULFATES; SODIUM
CARBONATES; SODIUM SULFATES.

706

TRUESDELL 68
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENTS OF AQUEOUS SODIUM
CHLORIDE FROM 15 TO 50 DEGREES MEASURED WITH A
GLASS ELECTRODE.

AUTHOR- TRUESDELL, A.H. [GEOLOGICAL SURVEY, MENLO
PARK, CALIF. (USA)].

REFERENCE- SCIENCE, V. 161 (3844), P. 884-886(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; ELECTROMOTIVE FORCE; ACTIVITY
COEFFICIENT; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; SODIUM CHLORIDES.

707

TSEITLIN 73
SOLUTIONS/THERMODYNAMICS

TITLE- ALGORITHMIZATION OF METHODS FOR DETERMINATION
OF CERTAIN PHYSICOCHEMICAL PARAMETERS OF MIXED
ELECTROLYTE SOLUTIONS.

AUTHOR- TSEITLIN, N.A.

REFERENCE- J. APPL. CHEM. USSR, V. 46 (11), P.
2637-2640(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; ACTIVITY
COEFFICIENT; LOW TEMPERATURE; MODERATE
TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES;
MAGNESIUM CHLORIDES; MAGNESIUM SULFATES; SODIUM
CARBONATES; SODIUM CHLORIDES; SODIUM SULFATES;
WATER.

708

TSVETKOV 69
SOLUTIONS/THERMODYNAMICS

TITLE- ISOTOPE EFFECTS IN THE HEAT OF DISSOLUTION OF
SOLID SUBSTANCES. (IN RUSSIAN).

AUTHOR- TSVETKOV, V.G.; RABINOVICH, I.B.
[LABOACHEVSKII GORKY STATE UNIV. (USSR).
INSTITUTE OF CHEMISTRY].

REFERENCE- RUSS. J. PHYS. CHEM., V. 43 (5), P.
675-677(1969).

DESCRIPTORS- GRAPHS; TABLES; ISOTOPE EFFECTS;
SOLUTION HEAT; ELECTROLYTES; CALCIUM CHLORIDES;
HEAVY WATER; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; WATER.

709

TURQ 69
SOLUTIONS/MISC.

TITLE- SELF-DIFFUSION IN AQUEOUS NaCl AND NaF
SOLUTIONS. (IN FRENCH).

AUTHOR- TURQ, P.; LANTELME, F.; CHEMLA, M. [FACULTE
DES SCIENCES DE PARIS (FRANCE). LABORATORIE DE
ELECTROCHIMIE].

REFERENCE- ELECTROCHIM. ACTA, V. 14 (11), P.
1081-1088(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; DIFFUSION; LOW CONCENTRATION;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
STANDARD TEMPERATURE; IONS; SODIUM CHLORIDES;
SODIUM FLUORIDES.

710

UNTERBERG 66
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- THERMAL PROPERTIES OF SALT SOLUTIONS.

AUTHOR- UNTERBERG, W.

REFERENCE- BR. CHEM. ENG., V. 11, P. 494-495(1966).

DESCRIPTORS- REVIEWS; GRAPHS; BOILING POINT;
DENSITY; DIFFUSION; SOLUBILITY; SURFACE
TENSION; THERMAL CONDUCTIVITY; THERMAL
DIFFUSION; VAPOR PRESSURE; VISCOSITY; ENTHALPY;
SPECIFIC HEAT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; SODIUM
CHLORIDES.

711

URUSOVA 71
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY OF WATER IN ALKALI HALIDE SALT
SOLUTIONS AT HIGH TEMPERATURES.

AUTHOR- URUSOVA, M.A.

REFERENCE- BULL. ACAD. SCI., USSR, DIV. CHEM. SCI.,
NO. 6, P. 1145-1149(1971).

DESCRIPTORS- GRAPHS; TABLES; VAPOR PRESSURE;
ACTIVITY COEFFICIENT; HIGH CONCENTRATION;
ELEVATED TEMPERATURE; LITHIUM CHLORIDES;
POTASSIUM BROMIDES; POTASSIUM CHLORIDES;
POTASSIUM FLUORIDES; POTASSIUM IODIDES; SODIUM
BROMIDES; SODIUM CHLORIDES; SODIUM IODIDES;
WATER.

712

AKSEL'RUD 70
SOLUTIONS/MISC.

TITLE- KINETICS OF THE DISSOLUTION OF A
TWO-COMPONENT MIXTURE OF SOLID PARTICLES.

AUTHOR- AKSEL'RUD, G.A.; KOVAL'CHUK, B.E.

REFERENCE- RUSS. J. PHYS. CHEM., V. 44 (9), P.
1274-1277(1970).

DESCRIPTORS- GRAPHS; TABLES; RATE CONSTANT;
SOLUBILITY; KINETICS; MEASURING INSTRUMENTS;
STANDARD PRESSURE; STANDARD TEMPERATURE;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

713

ANDERSON 71
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF MIXING. II. TEMPERATURE DEPENDENCE
OF AQUEOUS ELECTROLYTES WITH A COMMON ION.

AUTHOR- ANDERSON, H.L.; WILSON, R.D.; SMITH, D.E.
[NORTH CAROLINA UNIV., GREENSBORO (USA). DEPT.
OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 75 (8), P.
1125-1128(1971).

DESCRIPTORS- THEORETICAL TREATMENTS; ACTIVITY
COEFFICIENT; FREE ENERGY; OSMOTIC COEFFICIENT;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; ELECTROLYTES.

714

BEZBORUAH 70
SOLUTIONS/THERMODYNAMICS

TITLE- EXCESS GIBBS ENERGIES OF AQUEOUS MIXTURES OF
ALKALI METAL CHLORIDES AND NITRATES.

AUTHOR- BEZBORUAH, C.P.; COVINGTON, A.K.; ROBINSON,
R.A. [NEWCASTLE UPON TYNE UNIV. (UK); NEW YORK
STATE UNIV., BINGHAMTON (USA)].

REFERENCE- J. CHEM. THERMODYN., V. 2 (3), P.
431-437(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ACTIVITY COEFFICIENT; FREE ENERGY; MIXING FREE
ENERGY; OSMOTIC COEFFICIENT; ISOPIESTIC
MEASUREMENT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE; POTASSIUM
CHLORIDES; POTASSIUM NITRATES; SODIUM
CHLORIDES; SODIUM NITRATES.

715

DUCLAUX 69
SOLUTIONS/THERMODYNAMICS

TITLE- MEASUREMENT OF THE ACTIVITY OF AQUEOUS
SOLUTIONS II. (IN FRENCH).

AUTHOR- DUCLAUX, J.; COHN, C. [ECOLE PRATIQUE DES
HAUTES ETUDES, 75-PARIS (FRANCE). CENTRE DE
MATHEMATIQUES SOCIALES ET DE STATISTIQUE].

REFERENCE- J. CHIM. PHYS. PHYS.-CHIM. BIOL., V. 66
(3), P. 501-504(1969).

DESCRIPTORS- TABLES; ACTIVITY COEFFICIENT; HIGH
CONCENTRATION; CALCIUM CHLORIDES; POTASSIUM
IODIDES; SODIUM CHLORIDES.

716

REILLY 71
SOLUTIONS/THERMODYNAMICS

TITLE- PREDICTION OF OSMOTIC AND ACTIVITY
COEFFICIENTS IN MIXED-ELECTROLYTE SOLUTIONS.

AUTHOR- REILLY, P.J.; WOOD, R.H. [DELAWARE UNIV.,
NEWARK (USA). DEPT. OF CHEMISTRY].

ROBINSON, R.A. [STATE UNIV. OF NEW YORK,
BINGHAMTON (USA)].

REFERENCE- J. PHYS. CHEM., V. 75 (9), P.
1305-1315(1971).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ACTIVITY
COEFFICIENT; OSMOTIC COEFFICIENT; ISOPIESTIC
MEASUREMENT; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; ELECTROLYTES; BARIUM CHLORIDES;
CESIUM CHLORIDES; HYDROCHLORIC ACID; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

717

VASILEV 72
SOLUTIONS/THERMODYNAMICS

TITLE- A CALORIMETER FOR THE INVESTIGATION OF
SOLUTION CONTAINING FLUORIDE IONS.

AUTHOR- VASILEV, V.P.; KOZLOVSKII, E.V. [IVANOVO
INST. OF CHEMICAL ENGINEERING (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 46 (9), P.
2442-2443(1972).

DESCRIPTORS- EXPERIMENTAL RESULTS; TABLES; SOLUTION
HEAT; MEASURING INSTRUMENTS; CALORIMETERS; LOW
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; POTASSIUM CHLORIDES.

718

VASILEV 73
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- FUSE OF EQUATIONS RELATING THE SPECIFIC HEAT
CAPACITY OR DENSITY OF ELECTROLYTES SOLUTIONS
TO CONCENTRATIONS.

AUTHOR- VASILEV, V.A.; FEDYAINOV, N.V.; KARAPET'YANTS,
M.KH.; KARPACHEV, A.I. [MENDELEEV MOSCOW
INSTITUTE OF CHEMICAL ENGINEERING (USSR).
NOVOMOSKOVSK BRANCH].

REFERENCE- IZV. VYSSH. UCHEBN. ZAVED., KHIM. KHIM.
TEKHNOL., V. 16, P. 689-693(1973).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DENSITY; ACTIVITY COEFFICIENT; SPECIFIC HEAT;
ISOPIESTIC MEASUREMENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; BARIUM CHLORIDES; CALCIUM
CHLORIDES; MAGNESIUM CHLORIDES; WATER; MIXTURES.

719

VERESHCHAGINA 69
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- (KCL)2-(KNO3)2-CA(NO3)2-CACL2-H2O SYSTEM AT

60 DEGREES.

AUTHOR- VERESHCHAGINA, V.I.; ZOLCTAREVA,
L.V.; SHULYAK, L.F.

REFERENCE- RUSS. J. PHYS. CHEM., V. 14 (12), P.
1787-1790(1969).

DESCRIPTORS- TABLES; DENSITY; PHASE DIAGRAMS;
SOLUBILITY; VISCOSITY; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; MODERATE TEMPERATURE;
ELECTROLYTES; CALCIUM CHLORIDES; POTASSIUM
CHLORIDES; POTASSIUM NITRATES; MIXTURES.

720

VIERLING 67
SOLUTIONS/THERMODYNAMICS

TITLE- EFFECT OF MOLTEN SALTS ON THE ACTIVITY
COEFFICIENTS OF H⁺ AND CL⁻ IONS. (IN FRENCH).

AUTHOR- VIERLING, F. [FACULTE DES SCIENCES,
STRASBOURG (FRANCE). LABORATOIRE DE CHIMIE
PHYSIQUE].

REFERENCE- BULL. SOC. CHIM. FR., V. 1967 (4), P.
1247-1249(1967).

DESCRIPTORS- GRAPHS; TABLES; ELECTROMOTIVE FORCE;
ACTIVITY COEFFICIENT; HIGH CONCENTRATION;
STANDARD TEMPERATURE; ELECTROLYTES;
HYDROCHLORIC ACID; SODIUM CHLORIDES; MIXTURES.

721

VILCU 68
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMIC PROPERTIES OF AQUEOUS SOLUTIONS
OF ELECTROLYTES. II. DIFFERENTIAL CRYSCOPY OF
THE SYSTEM SODIUM CHLORIDE-POTASSIUM
CHLORIDE-WATER AND SODIUM BROMIDE-POTASSIUM
BROMIDE-WATER.

AUTHOR- VILCU, R.; STANCIU, F. [BUCAREST UNIV.
(ROMANIA). LAB. DE CHIMIE PHYSIQUE].

REFERENCE- REV. ROUM. CHIM., V. 13 (3), P.
253-264(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; MELTING POINT;
ACTIVITY COEFFICIENT; FREE ENERGY; MIXING HEAT;

SPECIFIC HEAT; HIGH CONCENTRATION; LOW TEMPERATURE; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; SODIUM BROMIDES; SODIUM CHLORIDES; MIXTURES.

722

VILCU 68B
SOLUTIONS/THERMODYNAMICS

TITLE- EXCESS THERMODYNAMIC FUNCTION FOR AQUEOUS SOLUTIONS OF ELECTROLYTES.

AUTHOR- VILCU, R.; STANCIU, F. [BUCHAREST UNIV. (ROMANIA). LAB. OF PHYSICAL CHEMISTRY].

REFERENCE- REV. ROUM. CHIM., V. 13 (1), P. 7-12(1968).

DESCRIPTORS- GRAPHS; TABLES; ENTHALPY; ENTROPY; FREE ENERGY; MIXING HEAT; HIGH CONCENTRATION; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; POTASSIUM CHLORIDES; SODIUM CHLORIDES; MIXTURES.

723

VILCU 70
SOLUTIONS/THERMODYNAMICS

TITLE- EXCESS FUNCTIONS FOR MIXED ELECTROLYTIC SOLUTIONS.

AUTHOR- VILCU, R.; IRINEI, F. [BUCHAREST UNIV. (ROMANIA). LAB. OF PHYSICAL CHEMISTRY].

REFERENCE- REV. ROUM. CHIM., V. 15 (1), P. 43-51(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ACTIVITY COEFFICIENT; ENTHALPY; ENTROPY; FREE ENERGY; MIXING HEAT; CALORIMETERS; HIGH CONCENTRATION; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; POTASSIUM BROMIDES; POTASSIUM CHLORATES; SODIUM BROMIDES; SODIUM CHLORIDES; MIXTURES.

724

VILCU 71

SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMIC PROPERTIES OF ELECTROLYTE SOLUTIONS. V. DIFFERENTIAL CRYOSCOPY IN TERNARY SYSTEMS. SYSTEM (LI-K), CL+H₂O AND ASSOCIATED BINARIES.

AUTHOR- VILCU, R.; IRINEI, F. [BUCHAREST UNIV. (ROMANIA). LAB. OF CHEMICAL THERMODYNAMICS AND ELECTROCHEMISTRY].

REFERENCE- REV. ROUM. CHIM., V. 16 (6), P. 793-799(1971).

DESCRIPTORS- GRAPHS; TABLES; MELTING POINT; ACTIVITY COEFFICIENT; HIGH CONCENTRATION; LOW TEMPERATURE; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; MIXTURES.

725

WAISMAN 70
SOLUTIONS/THERMODYNAMICS

TITLE- EXACT SOLUTION OF AN INTEGRAL EQUATION FOR THE STRUCTURE OF A PRIMITIVE MODEL OF ELECTROLYTES.

AUTHOR- WAISMAN, E.; LEBOWITZ, J.L. [YESHIVA UNIV., NEW YORK (USA). BELFER SCHOOL OF SCIENCE].

REFERENCE- J. CHEM. PHYS., V. 52 (8), P. 4307-4309(1970).

DESCRIPTORS- THEORETICAL TREATMENTS.

726

WIRTH 68
SOLUTIONS/VOLUMETRIC

TITLE- TEMPERATURE DEPENDENCE OF VOLUME CHANGES ON MIXING ELECTROLYTE SOLUTIONS.

AUTHOR- WIRTH, H.E.; LOSURDO, A. [SYRACUSE UNIV., N.Y. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. CHEM. ENG. DATA, V. 13 (2), P. 226-231(1968).

DESCRIPTORS- MIXING VOLUME; DILATOMETERS; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; ELECTROLYTES; EMPIRICAL EQUATIONS; GRAPHS; EXPERIMENTAL RESULTS; TABLES; APPARENT MOLAL

VOLUME; DENSITY; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; MODERATE
TEMPERATURE; LITHIUM CHLORIDES; SODIUM
CHLORIDES; SODIUM SULFATES.

727

WOOD 67
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF MIXING OF AQUEOUS ELECTROLYTES. IV.
POTASSIUM SALTS OF THE FLUORIDE, CHLORIDE,
BROMIDE AND ACETATE IONS.

AUTHOR- WOOD, R.H.; ANDERSON, H.L. [DELAWARE UNIV.,
NEWARK (USA)].

REFERENCE- J. PHYS. CHEM., V. 71 (6), P.
1869-1871(1967).

DESCRIPTORS- TABLES; MIXING HEAT; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES; POTASSIUM FLUORIDES.

728

WOOD 69C
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF DILUTION OF ALKALI METAL HALIDES IN
D₂O AND H₂O.

AUTHOR- WOOD, R.H.; ROONEY, R.A.; BRADDOCK, J.N.
[DELAWARE UNIV., NEWARK (USA). DEPT. OF
CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 73 (6), P.
1673-1678(1969).

DESCRIPTORS- GRAPHS; TABLES; ACTIVITY COEFFICIENT;
DILUTION HEAT; ENTHALPY; ENTROPY; FREE ENERGY;
OSMOTIC COEFFICIENT; HIGH CONCENTRATION;
STANDARD TEMPERATURE; HEAVY WATER; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM
BROMIDES; SODIUM CHLORIDES; WATER.

729

WOOD 69

SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF MIXING AQUEOUS ELECTROLYTES. VII.
CALCIUM CHLORIDE AND BARIUM CHLORIDE WITH SOME
ALKALI-METAL CHLORIDES.

AUTHOR- WOOD, R.H.;GHAMKHAR, M. [DELAWARE UNIV.,
NEWARK (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 73 (11), P.
3959-3965(1969).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
MIXING HEAT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE; BARIUM
CHLORIDES; CALCIUM CHLORIDES; CESIUM CHLORIDES;
LITHIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES.

730

WOOD 69B
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF MIXING AQUEOUS ELECTROLYTES. VI.
MAGNESIUM CHLORIDE WITH SOME ALKALI METAL
CHLORIDES.

AUTHOR- WOOD, R.H.;PATTON, J.D.;GHAMKHAR, M.
[DELAWARE UNIV., NEWARK (USA). DEPT. OF
CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 73 (2), P.
346-349(1969).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
MIXING HEAT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE; CESIUM
CHLORIDES; LITHIUM CHLORIDES; MAGNESIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

731

WOOD 75
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- THERMODYNAMICS OF BRINE-SALT EQUILIBRIA-I.
THE SYSTEMS NA₂CO₃-K₂CO₃-MgCl₂-CaCl₂-H₂O AND
NA₂CO₃-MgSO₄-H₂O AT 25 DEGREES C.

AUTHOR- WOOD, J.R. [JOHN HOPKINS UNIV., BALTIMORE,
MD. (USA)].

REFERENCE- GEOCHIM. COSMOCHIM. ACTA, V. 39, P.
1147-1163(1975).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
EMPIRICAL EQUATIONS; GRAPHS; TABLES;
EQUILIBRIUM CONSTANT; SOLUBILITY; PHASE
DIAGRAMS; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; ACTIVITY COEFFICIENT; CALCIUM
CHLORIDES; HYDROCHLORIC ACID; MAGNESIUM
CHLORIDES; MAGNESIUM SULFATES; POTASSIUM
CHLORIDES; SODIUM CARBONATES; SODIUM CHLORIDES;
WATER; SODIUM SULFATES.

732

YAYANOS 70
SOLUTIONS/VOLUMETRIC

TITLE- EQUATION OF STATE FOR P-V ISOTHERMS OF WATER
AND NACL SOLUTIONS.

AUTHOR- YAYANOS, A.A. [SCRIPPS INSTITUTION OF
OCEANOGRAPHY, LA JOLLA, CALIF. (USA);
CALIFORNIA UNIV., SAN DIEGO (USA)].

REFERENCE- J. APPL. PHYS., V. 41 (5), P.
2259-2260(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; DENSITY;
STANDARD PRESSURE; MODERATE PRESSURE; ELEVATED
PRESSURE; HIGH PRESSURE; LOW TEMPERATURE;
MODERATE TEMPERATURE; ELEVATED TEMPERATURE;
SODIUM CHLORIDES; WATER.

733

YUSOVA 72
SOLUTIONS/THERMODYNAMICS

TITLE- DETERMINATION OF THE AVERAGE HEAT CAPACITIES
OF SALIFEROUS ROCKS AND BRINES.

AUTHOR- YUSOVA, YU.I.; ESELEV, I.M.; KARAT'GIN, E.P.

REFERENCE- J. APPL. CHEM. USSR, V. 45, P.
427-428(1972).

DESCRIPTORS- TABLES; SPECIFIC HEAT; EXPERIMENTAL
RESULTS; HIGH CONCENTRATION; LOW TEMPERATURE;
MODERATE TEMPERATURE; ELECTROLYTES; ROCKS;
POTASSIUM CHLORIDES; SODIUM CHLORIDES; MIXTURES.

734

ZDANOVSKII 66
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- VISCOSITY AND STRUCTURE OF MIXED ELECTROLYTE
SOLUTIONS.

AUTHOR- ZDANOVSKII, A.B.; IVANOVA, F.I.

REFERENCE- J. STRUCT. CHEM. (USSR), V. 7 (5), P.
736-737(1966).

DESCRIPTORS- GRAPHS; TABLES; DENSITY; VISCOSITY;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
BARIUM CHLORIDES; CALCIUM CHLORIDES; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

735

ZDANOVSKII 67
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF MIXING OF ELECTROLYTE SOLUTIONS. IV.
HEATS OF MIXING NOMOGRAMS FOR ELECTROLYTE
SOLUTIONS. (IN RUSSIAN).

AUTHOR- ZDANOVSKII, A.B.; DERYABINA, L.D.
[UL'YANOV-LENIN KAZAN STATE UNIV. (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 41 (8), P.
1051-1053(1967).

DESCRIPTORS- GRAPHS; MIXING HEAT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES;
MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES;
SODIUM CHLORIDES; MIXTURES.

736

ZDANOVSKII 68
SOLUTIONS/THERMODYNAMICS

TITLE- SOLUBILITY OF SODIUM CHLORIDE IN A SODIUM
CHLORIDE-POTASSIUM CHLORIDE-MAGNESIUM
CHLORIDE-CALCIUM CHLORIDE-WATER SYSTEM AT 25
DEGREES.

AUTHOR- ZDANOVSKII, A.B.; ALPATOV, E.A.

REFERENCE- RUSS. J. INORG. CHEM., V. 13 (10), P.
1486-1487(1968).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS;
SOLUBILITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE; CALCIUM
CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; MIXTURES.

737

ZDANOVSKII 71
SOLUTIONS/MISC.

TITLE- PRINCIPLES OF A CHANGE IN ELECTROLYTE
DIFFUSION COEFFICIENTS.

AUTHOR- ZDANOVSKII, A.B.; SERDYUK, V.V. [TOGLIATTI
LENINGRAD INST. OF ENGINEERING AND ECONOMICS
(USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 45 (10), P.
1441-1444(1971).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; DIFFUSION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; ELECTROLYTES; CALCIUM CHLORIDES;
CESIUM CHLORIDES; LITHIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
IODIDES; SODIUM CHLORIDES.

738

ZDANOVSKII 71B
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- COEFFICIENTS OF SALT DIFFUSION IN SOLUTIONS
OF OTHER ELECTROLYTES. (IN RUSSIAN).

AUTHOR- ZDANOVSKII, A.B.; SERDYUK, V.V. [TOGLIATTI
LENINGRAD INST. OF ENGINEERING AND ECONOMICS
(USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 45 (6), P.
876-877(1971).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; DIFFUSION; HIGH CONCENTRATION;
STANDARD TEMPERATURE; CALCIUM CHLORIDES;
MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES;
SODIUM CHLORIDES; SODIUM SULFATES.

739

ZDANOVSKII 72
SOLUTIONS/MISC.

TITLE- KINETICS OF SALT DISSOLUTION IN ELECTROLYTE SOLUTIONS.

AUTHOR- ZDANOVSKII, A.B.;SERDYUK, V.V. [TOGLIATTI Leningrad Inst. of Engineering and Economics (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 46 (9), P. 1364-1365(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; DIFFUSION; RATE CONSTANT; VISCOSITY; HIGH CONCENTRATION; POTASSIUM CHLORIDES; SODIUM CHLORIDES; CALCIUM CHLORIDES; POTASSIUM SULFATES; SODIUM SULFATES; ELECTROLYTES.

740

ZDANOVSKII 73
SOLUTIONS/MISC.

TITLE- THE CHOICE OF DIFFUSION LAYER PARAMETERS DETERMINING THE KINETICS OF THE DISSOLUTION OF SALTS.

AUTHOR- ZDANOVSKII, A.B.;SERDYUK, V.V. [PALMIRO TOGLIATTI Leningrad Inst. of Engineering and Economics (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 47 (3), P. 417-418(1973).

DESCRIPTORS- REVIEWS; TABLES; DIFFUSION; VISCOSITY; STANDARD TEMPERATURE; ELECTROLYTES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; POTASSIUM IODIDES; SODIUM CHLORIDES.

741

ZVEREV 68
SOLUTIONS/THERMODYNAMICS

TITLE- SOLUTION MICROCALORIMETER WITH AN ISOTHERMAL JACKET AND A THERMISTOR AS TEMPERATURE GAGE.

AUTHOR- ZVEREV, V.A.; KRESTOV, G.A. [IVANOVSKIJ
KHIMIKO-TEKHNOLOGICHESKIJ INST. (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 42 (2), P.
286-289(1968).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS; SOLUTION
HEAT; MEASURING INSTRUMENTS; CALORIMETERS;
INFINITE DILUTION; LOW CONCENTRATION; STANDARD
TEMPERATURE; POTASSIUM CHLORIDES.

742

LIETZKE 72
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES-XVI. THE
THERMODYNAMIC PROPERTIES OF AQUEOUS
HCL-NACL-LACL3 MIXTURES.

AUTHOR- LIETZKE, M.H.; DANFORD, M.D. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V.34,
P.3789-3794(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ACTIVITY COEFFICIENT; ELECTROMOTIVE FORCE;
ELECTROLYTES; HYDROCHLORIC ACID; SODIUM
CHLORIDES; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE.

743

LIETZKE 72B
SOLUTIONS/THERMODYNAMICS

TITLE- A SIMPLE EMPIRICAL EQUATION FOR THE
PREDICTION OF THE ACTIVITY-COEFFICIENT VALUE OF
EACH COMPONENT IN AQUEOUS ELECTROLYTE MIXTURES
CONTAINING A COMMON ION.

AUTHOR- LIETZKE, M.H.; STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. SOLUTION CHEM., V.1 (4),
P.299-308(1972).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; ACTIVITY
COEFFICIENT; ELECTROLYTES; CALCIUM CHLORIDES;
CESIUM CHLORIDES; HYDROCHLORIC ACID; LITHIUM

CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; ELEVATED
CONCENTRATION.

744

LIETZKE 72C
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES. XV. THE
THERMODYNAMIC PROPERTIES OF AQUEOUS HCL-LACL3
SOLUTIONS TO IONIC STRENGTH 5.0.

AUTHOR- LIETZKE, M.H.; DANFORD, M.D. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. CHEM. ENG. DATA., V.17 (4),
P.459-461(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ACTIVITY COEFFICIENT; ELECTROMOTIVE FORCE;
ELECTROLYTES; BARIUM CHLORIDES; HYDROCHLORIC
ACID; SODIUM CHLORIDES; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE.

745

LIETZKE 72D
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES-XIV. THE
THERMODYNAMIC PROPERTIES OF HCL-KCL-CACL2
MIXTURES.

AUTHOR- LIETZKE, M.H. [TENNESSEE UNIV., KNOXVILLE
(USA). DEPT. OF CHEMISTRY].

DAUGHERTY, C. [OAK RIDGE NATIONAL LAB.,
TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V.34,
P.2233-2239(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ACTIVITY COEFFICIENT; FREE ENERGY; ISOPIESTIC
MEASUREMENT; ELECTROMOTIVE FORCE; CALCIUM
CHLORIDES; HYDROCHLORIC ACID; POTASSIUM
CHLORIDES; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE.

746

LIETZKE 73
SOLUTIONS/THERMODYNAMICS

TITLE- ERRATUM.

AUTHOR- LIETZKE, M.H. [OAK RIDGE NATIONAL LAB.,
TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V.35,
P.1405-1406(1973). ERRATA FOR J. INORG. NUCL.
CHEM. V. 34, P. 2233 (1972) AND J. INORG. NUCL.
CHEM. V. 34, 3789 (1972).

DESCRIPTORS- GRAPHS; ACTIVITY COEFFICIENT;
ELECTROLYTES; CALCIUM CHLORIDES; HYDROCHLORIC
ACID; POTASSIUM CHLORIDES; SODIUM CHLORIDES;
ELEVATED CONCENTRATION.

747

LIETZKE 73B
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES-XVII. THE
THERMODYNAMIC PROPERTIES OF AQUEOUS
HCL-MGCL₂-CACL₂ MIXTURES.

AUTHOR- LIETZKE, M.H.; DANFORD, M.D. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V.35,
P.1651-1656(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ACTIVITY COEFFICIENT; ELECTROMOTIVE FORCE;
CALCIUM CHLORIDES; HYDROCHLORIC ACID; MAGNESIUM
CHLORIDES; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE.

748

LIETZKE 74
SOLUTIONS/THERMODYNAMICS

TITLE- THE STANDARD POTENTIAL OF THE AG, AGR
ELECTRODE IN DBR SOLUTIONS.

AUTHOR- LIETZKE, M.H.;LEMMONDS, T.J. [TENNESSEE UNIV., KNOXVILLE (USA). DEPT. OF CHEMISTRY; OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V.36, P.2299-2301(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ACTIVITY COEFFICIENT; ELECTROMOTIVE FORCE; ELECTROLYTES; HEAVY WATER; LOW CONCENTRATION; MODERATE CONCENTRATION; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE.

749

LIETZKE 74B
SOLUTIONS/THERMODYNAMICS

TITLE- A SIMPLE METHOD FOR PREDICTING THE OSMOTIC COEFFICIENT OF AQUEOUS SOLUTIONS CONTAINING MORE THAN ONE ELECTROLYTE.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V.36, P1315-1317(1974).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS; EMPIRICAL EQUATIONS; TABLES; FREE ENERGY; OSMOTIC COEFFICIENT; BARIUM CHLORIDES; CALCIUM CHLORIDES; CESIUM CHLORIDES; LITHIUM CHLORIDES; MAGNESIUM CHLORIDES; MAGNESIUM SULFATES; POTASSIUM CHLORIDES; SODIUM CHLORIDES; SODIUM SULFATES.

750

LIETZKE 74C
SOLUTIONS/THERMODYNAMICS

TITLE- PROBLEMS ENCOUNTERED IN DERIVING ACTIVITY COEFFICIENT VALUES FROM DATA ON MIXED ELECTROLYTE SYSTEMS.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. TENN. ACAD. SCI., V.49 (4), P.130-133(1974).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; TABLES; ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT;

ELECTROLYTES; CALCIUM CHLORIDES; HYDROCHLORIC
ACID; MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES;
SODIUM BROMIDES; SODIUM CHLORIDES.

751

MAKSIMOVA 65
SOLUTIONS/VOLUMETRIC

TITLE- DETERMINATIONS OF THE DENSITY OF AQUEOUS
SOLUTIONS.

AUTHOR- MAKSIMOVA, I.N. [LENINGRADSKIJ
TEKHNOLOGICHESKIJ INST. (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 39 (3), P.
296-297(1965). TRANSLATED FROM ZH. FIZ. KHIM.,
V. 39, P. 551 (1965).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
DENSITY; MOLAL VOLUME; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE; ELECTROLYTES; BARIUM
CHLORIDES; CALCIUM CHLORIDES; CESIUM CHLORIDES;
HYDROCHLORIC ACID; LITHIUM CHLORIDES; MAGNESIUM
CHLORIDES; POTASSIUM CHLORIDES; POTASSIUM
HYDROXIDES; SODIUM CHLORIDES; SODIUM
HYDROXIDES; SODIUM IODIDES; SODIUM SULFATES.

752

MARSHALL 67
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- AQUEOUS SYSTEMS AT HIGH TEMPERATURE. XX. THE
DISSOCIATION CONSTANT AND THERMODYNAMIC
FUNCTIONS FOR MAGNESIUM SULFATE TO 200 C
DEGREES.

AUTHOR- MARSHALL, W.L. [OAK RIDGE NATIONAL LAB.,
TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 71 (11), P.
3584-3588(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DISSOCIATION CONSTANT; SOLUBILITY; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ACTIVITY
COEFFICIENT; ENTHALPY; ENTROPY; FREE ENERGY;
SPECIFIC HEAT; MAGNESIUM SULFATES.

MARSHALL 73
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- DEBYE-HUCKEL CORRELATED SOLUBILITIES OF
CALCIUM SULFATE IN WATER AND IN AQUEOUS SODIUM
NITRATE AND LITHIUM NITRATE SOLUTIONS OF
MOLALITY 0 TO 6 MOL/KG AND AT TEMPERATURES FROM
398 TO 623 K.

AUTHOR- MARSHALL, W.L.; SLUSHER, R. [CAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. CHEM. THERMODYN., V. 5, P.
189-197(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
SOLUBILITY; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; ELEVATED TEMPERATURE; ACTIVITY
COEFFICIENT; ELECTROLYTES; CALCIUM SULFATES;
SODIUM NITRATES.

MARSHALL 74
SOLUTIONS/MISC.

TITLE- LIQUID-VAPOR CRITICAL TEMPERATURES OF AQUEOUS
ELECTROLYTE SOLUTIONS.

AUTHOR- MARSHALL, W.L.; JONES, E.V. [CAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V. 36, P.
2313-2318(1974).

DESCRIPTORS- GRAPHS; TABLES; CRITICAL TEMPERATURE;
EXPERIMENTAL RESULTS; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; ELEVATED TEMPERATURE; HIGH
TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES;
HYDROCHLORIC ACID; LITHIUM CHLORIDES; MAGNESIUM
CHLORIDES; NITRIC ACID; POTASSIUM BROMIDES;
POTASSIUM CHLORIDES; POTASSIUM IODIDES; SODIUM
CHLORIDES; SULFURIC ACID; BORIC ACID.

TITLE- WATER AND ITS SOLUTIONS AT HIGH TEMPERATURES
AND PRESSURES.

AUTHOR- MARSHALL, W.L. [OAK RIDGE NATIONAL LAB.,
TENN. (USA)].

REFERENCE- CHEMISTRY, V. 48, P. 6-12(1975).

DESCRIPTORS- REVIEWS; GRAPHS; DISSOCIATION CONSTANT;
ELECTRIC CONDUCTIVITY; SOLUBILITY; ELECTROLYTES.

756

MARSHALL 75B
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- THE IONIZATION CONSTANT OF NITRIC ACID AT
HIGH TEMPERATURES FROM SOLUBILITIES OF CALCIUM
SULFATE IN HNO₃-H₂O, 100-350 C. ACTIVITY
COEFFICIENTS AND THERMODYNAMIC FUNCTIONS.

AUTHOR- MARSHALL, W.L.; SLUSHER, R. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V. 37, P.
1191-1202(1975).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
DISSOCIATION CONSTANT; EQUILIBRIUM CONSTANT;
SOLUBILITY; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; ELEVATED TEMPERATURE; ACTIVITY
COEFFICIENT; CALCIUM SULFATES; NITRIC ACID;
SULFURIC ACID.

757

MARSHALL 75C
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMIC FUNCTIONS AT SATURATION OF
SEVERAL METAL SULFATES IN AQUEOUS SULFURIC
DEUTEROSULFURIC ACIDS AT TEMPERATURES UP TO 350
C.

AUTHOR- MARSHALL, W.L. [OAK RIDGE NATIONAL LAB.,
TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V. 37, P.

2155-2163(1975).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; EQUILIBRIUM CONSTANT; SOLUBILITY;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
ELEVATED TEMPERATURE; ACTIVITY COEFFICIENT;
ENTHALPY; ENTROPY; FREE ENERGY; SPECIFIC HEAT;
CALCIUM SULFATES; HEAVY WATER; MAGNESIUM
SULFATES; SODIUM SULFATES; SULFURIC ACID.

758

MARSHALL 75D
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- EXPERIMENTAL AND CALCULATED SOLUBILITIES OF
MAGNESIUM SULFATE MONOHYDRATE IN AQUEOUS NITRIC
ACID AND RELATED SOLUBILITIES, 200-350 C.
IONIZATION CONSTANTS OF NITRIC ACID AT 300-370
C..

AUTHOR- MARSHALL, W.L.; SLUSHER, R. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

SLUSHER, R. [OAK RIDGE NATIONAL LAB., TENN.
(USA)].

REFERENCE- J. INORG. NUCL. CHEM., V. 37, P.
2165-2170(1975).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; DISSOCIATION CONSTANT; EQUILIBRIUM
CONSTANT; SOLUBILITY; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
ELEVATED TEMPERATURE; ENTHALPY; ENTROPY; FREE
ENERGY; SPECIFIC HEAT; ELECTROLYTES; MAGNESIUM
SULFATES; NITRIC ACID.

759

MARSHALL 75E
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- SOLUBILITY AND THERMODYNAMIC FUNCTIONS FOR A
3-2 SALT, SAMARIUM SULFATE, IN WATER AND
SULFURIC ACID SOLUTIONS AT TEMPERATURES TO 350
C.

AUTHOR- MARSHALL, W.L.; SLUSHER, R. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

SLUSHER, R. [OAK RIDGE NATIONAL LAB., TENN.
(USA)].

REFERENCE- J. INORG. NUCL. CHEM., V. 37, P.
2171-2176(1975).

DESCRIPTORS- EQUILIBRIUM CONSTANT; SOLUBILITY; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; ELEVATED TEMPERATURE; ENTHALPY;
ENTROPY; FREE ENERGY; ELECTROLYTES; SULFURIC
ACID.

760

MASHOVETS 65
SOLUTIONS/VOLUMETRIC

TITLE- DENSITY OF AQUEOUS KOH SOLUTIONS AT HIGH
TEMPERATURES OVER A WIDE RANGE OF
CONCENTRATIONS.

AUTHOR- MASHOVETS, V.P.; DIBROV, I.A.; KRUMGAL'Z,
B.S.; MATVEEVA, R.P. [LENINGRADSKIJ
TEKHNOLOGICHESKIJ INST. (USSR)].

REFERENCE- RUSS. J. APPL. CHEM., (V. 38, P.
2297-2299). TRANSLATED FROM ZH. PRIKL. KHIM.,
V. 38 (10), P. 2344-2347.

DESCRIPTORS- GRAPHS; TABLES; APPARENT MOLAL VOLUME;
DENSITY; PARTIAL MOLAL VOLUME; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; POTASSIUM HYDROXIDES.

761

MERCKEL 39
SOLUTIONS/VOLUMETRIC

TITLE- MAXIMUM DENSITY AND COMPRESSIBILITY OF SALT
SOLUTIONS. (IN GERMAN). MAXIMALE DICHT E UND
KOMPRESSIBILITAT VON SALZLOSUNGEN.

AUTHOR- MERCKEL, J.H.C. [AMSTERDAM UNIV.
(NETHERLANDS). KOLLOID-CHEMISCHES LABORATORIUM].

REFERENCE- RECL. TRAV. CHIM., V. 58, P.
465-470(1939).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
COMPRESSIBILITY; DENSITY; LOW TEMPERATURE;
LITHIUM BROMIDES; LITHIUM CHLORIDES; LITHIUM
IODIDES; POTASSIUM BROMIDES; POTASSIUM

CHLORIDES; POTASSIUM IODIDES; POTASSIUM
NITRATES; SODIUM BROMIDES; SODIUM CHLORIDES;
SODIUM IODIDES.

762

MESMER 70
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- ACIDITY MEASUREMENTS AT ELEVATED
TEMPERATURES. IV. APPARENT DISSOCIATION PRODUCT
OF WATER IN 1 MOLAL POTASSIUM CHLORIDE UP TO
292 C.

AUTHOR- MESMER, R.E.; BAES, C.F.; SWEETON, F.H. [OAK
RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 74 (9), P.
1937-1942(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DISSOCIATION CONSTANT; HIGH CONCENTRATION;
MODERATE TEMPERATURE; ELEVATED TEMPERATURE;
ENTHALPY; ENTROPY; SPECIFIC HEAT; ELECTROMOTIVE
FORCE; POTASSIUM CHLORIDES; WATER.

763

MESMER 71
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- ACIDITY MEASUREMENTS AT ELEVATED
TEMPERATURES. V. ALUMINUM ION HYDROLYSIS.

AUTHOR- MESMER, R.E.; BAES, C.F. [OAK RIDGE NATIONAL
LAB., TENN. (USA)].

REFERENCE- INORG. CHEM., V. 10, P. 2290-2296(1971).

DESCRIPTORS- GRAPHS; TABLES; HYDROLYSIS;
THERMODYNAMICS; ENTHALPY; ENTROPY; SPECIFIC
HEAT; ELEVATED CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; IONS; POTASSIUM CHLORIDES;

764

MESMER 71B

SOLUTIONS/MISC.

TITLE- BORIC ACID EQUILIBRIA AND PH IN PWR COOLANTS.

AUTHOR- MESMER, R.E.;BAES, C.F.;SWEETON, F.H. [OAK
RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- PROCEEDINGS, 32ND INTERNATIONAL WATER
CONFERENCE. P. 55-62.

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EQUILIBRIUM CONSTANT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE; ELECTROMOTIVE FORCE;
POTASSIUM CHLORIDES; BORIC ACID.

765

MESMER 71C
SOLUTIONS/MISC.

TITLE- HYDROLYSIS OF IRON (2+) IN DILUTE CHLORIDE AT
25 C DEGREES.

AUTHOR- MESMER, R.E. [OAK RIDGE NATIONAL LAB., TENN.
(USA)].

REFERENCE- INORG. CHEM., V. 10, P. 857-858(1971).

DESCRIPTORS- TABLES; EQUILIBRIUM CONSTANT;
HYDROLYSIS; STANDARD PRESSURE; STANDARD
TEMPERATURE; ELECTROLYTES; IONS; LOW
CONCENTRATION; HYDROCHLORIC ACID; MIXTURES.

766

MESMER 72
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- ACIDITY MEASUREMENTS AT ELEVATED
TEMPERATURES. VI. BORIC ACID EQUILIBRIA.

AUTHOR- MESMER, R.E.;BAES, C.F.;SWEETON, F.H. [OAK
RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- INORG. CHEM., V. 11, P. 537-543(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
EQUILIBRIUM CONSTANT; HYDROLYSIS; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ENTHALPY;

ENTROPY; SPECIFIC HEAT; ELECTROMOTIVE FORCE;
BORIC ACID.

767

MESMER 73
SOLUTIONS/MISC.

TITLE- FLUOROBORATE EQUILIBRIA IN AQUEOUS SOLUTIONS.

AUTHOR- MESMER, R.E.; PALEN, K.M.; BAES, C.F. [OAK
RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- INORG. CHEM., V. 12, P. 89-95(1973).

DESCRIPTORS- GRAPHS; TABLES; EQUILIBRIUM CONSTANT;
RATE CONSTANT; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE;
ELECTROMOTIVE FORCE; SODIUM CHLORIDES; SODIUM
FLUORIDES; BORATES; BORIC ACID.

768

MESMER 73B
SOLUTIONS/MISC.

TITLE- FLUORINE-19 NUCLEAR MAGNETIC RESONANCE
STUDIES ON FLUOROBORATE SPECIES IN AQUEOUS
SOLUTION.

AUTHOR- MESMER, R.E.; RUTENBERG, A.C. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- INORG. CHEM., V. 12, P. 699-702(1973).

DESCRIPTORS- GRAPHS; TABLES; RATE CONSTANT; HIGH
CONCENTRATION; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; NUCLEAR
MAGNETIC RESONANCE; BORATES.

769

MESMER 74
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- PHOSPHORIC ACID DISSOCIATION EQUILIBRIA IN
AQUEOUS SOLUTIONS TO 300 C.

AUTHOR- MESMER, R.E.; BAES, C.F. [OAK RIDGE NATIONAL

LAB., TENN. (USA)].

REFERENCE- J. SOLUTION CHEM., V. 3 (4), P.
307-322(1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES;
DISSOCIATION CONSTANT; EQUILIBRIUM CONSTANT;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
MODERATE TEMPERATURE; ELEVATED TEMPERATURE;
ACTIVITY COEFFICIENT; ENTHALPY; ENTROPY; FREE
ENERGY; SPECIFIC HEAT; ELECTROMOTIVE FORCE;
HYDROCHLORIC ACID; POTASSIUM CHLORIDES;
POTASSIUM HYDROXIDES; PHOSPHORIC ACID;
PHOSPHATES.

770

MESMER 74B
SOLUTIONS/MISC.

TITLE- THE HYDROLYSIS OF CATIONS. A CRITICAL REVIEW
OF HYDROLYTIC SPECIES AND THEIR STABILITY
CONSTANTS IN AQUEOUS SOLUTION.

AUTHOR- MESMER, R.E.; BAES, C.F. [OAK RIDGE NATIONAL
LAB., TENN. (USA)].

REFERENCE- THE HYDROLYSIS OF CATIONS. A CRITICAL
REVIEW OF HYDROLYTIC SPECIES AND THEIR
STABILITY CONSTANTS IN AQUEOUS SOLUTION.
ORNL-NSF-EATC-3, PART III, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TN, 1974, 141 P..

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; EQUILIBRIUM CONSTANT; HYDROLYSIS; IONS;
SILICATES; SILICON.

771

METLER 67
SOLUTIONS/MISC.

TITLE- THE PROXIMATE CALCULATION OF THE SOLUBILITY
OF GYPSUM IN NATURAL BRINES FROM 28 TO 70
DEGREES C.

AUTHOR- METLER, A.V.; OSTROFF, A.G. [MOBIL OIL CORP.,
DALLAS, TEX. (USA). FIELD RESEARCH LAB.].

REFERENCE- ENVIRON. SCI. TECHNOL., V. 1 (10), P.
815-819(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES;
SOLUBILITY; STANDARD PRESSURE; MODERATE

772

MILLERO 67
SOLUTIONS/VOLUMETRIC

TITLE- HIGH PRECISION MAGNETIC FLOAT DENSIMETER.

AUTHOR- MILLERO, F.J. [MIAMI UNIV., FLA. (USA).
INST. OF MARINE SCIENCES].

REFERENCE- REV. SCI. INSTRUM., V. 38 (10), P.
1441-1444(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; APPARENT
MOLAL VOLUME; DENSITY; EXPERIMENTAL RESULTS;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
STANDARD PRESSURE; STANDARD TEMPERATURE;
MEASURING INSTRUMENTS; MAGNETIC FLOAT METHOD;
SODIUM CHLORIDES.

773

MILLERO 68
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT MOLAL VOLUMES OF AQUEOUS MONOVALENT
SALT SOLUTIONS AT VARIOUS TEMPERATURES.

AUTHOR- MILLERO, F.J.; DROST-HANSEN, W. [MIAMI UNIV.,
FLA. (USA). INST. OF MARINE SCIENCES].

REFERENCE- J. CHEM. ENG. DATA, V. 13 (3), P.
330-333(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
EXPERIMENTAL RESULTS; APPARENT MOLAL VOLUME;
DENSITY; THERMAL EXPANSIVITY; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; MAGNETIC
FLOAT METHOD; ELECTROLYTES; IONS; CESIUM
CHLORIDES; LITHIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
IODIDES; POTASSIUM NITRATES; SODIUM CHLORIDES;
SODIUM FLUORIDES.

774

MILLERO 68B
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT MOLAL EXPANSIBILITIES OF SOME
DIVALENT CHLORIDES IN AQUEOUS SOLUTION AT 25 C
DEGREES.

AUTHOR- MILLERO, F.J. [MIAMI UNIV., FLA. (USA).
INST. OF MARINE SCIENCES].

REFERENCE- J. PHYS. CHEM., V. 72 (13), P.
4589-4593(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
EXPERIMENTAL RESULTS; THERMAL EXPANSIVITY;
MODERATE CONCENTRATION; STANDARD PRESSURE;
STANDARD TEMPERATURE; MAGNETIC FLOAT METHOD;
ELECTROLYTES; IONS; BARIUM CHLORIDES; CALCIUM
CHLORIDES; MAGNESIUM CHLORIDES.

775

MILLERO 69
SOLUTIONS/VOLUMETRIC

TITLE- THE PARTIAL MOLAL VOLUME OF IONS IN VARIOUS
SOLVENTS.

AUTHOR- MILLERO, F.J. [MIAMI UNIV., FLA. (USA).
INST. OF MARINE SCIENCES].

REFERENCE- J. PHYS. CHEM., V. 73 (7), P.
2417-2420(1969).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; PARTIAL MOLAL VOLUME; STANDARD
PRESSURE; STANDARD TEMPERATURE; IONS.

776

MILLERO 70
SOLUTIONS/VOLUMETRIC

TITLE- THE APPARENT AND PARTIAL MOLAL VOLUME OF
AQUEOUS SODIUM CHLORIDE SOLUTIONS AT VARIOUS
TEMPERATURES.

AUTHOR- MILLERO, F.J. [MIAMI UNIV., FLA. (USA).
INST. OF MARINE SCIENCES].

REFERENCE- J. PHYS. CHEM., V. 74(2), P.
356-362(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;

DENSITY; DISSOCIATION CONSTANT; THERMAL EXPANSIVITY; PARTIAL MOLAL VOLUME; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; MAGNETIC FLOAT METHOD; SODIUM CHLORIDES.

777

MILLERO 71
SOLUTIONS/VOLUMETRIC

TITLE- THE MOLAL VOLUMES OF ELECTROLYTES.

AUTHOR- MILLERO, F.J. [MIAMI UNIV., FLA. (USA).
INST. OF MARINE SCIENCES].

REFERENCE- CHEM. REV., V. 7 (2), P. 147-176(1971).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; APPARENT MOLAL VOLUME; PARTIAL MOLAL VOLUME; STANDARD PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES; IONS.

778

MILLERO 72
SOLUTIONS/VOLUMETRIC

TITLE- A HIGH-PRECISION, VARIABLE-PRESSURE MAGNETIC FLOAT DENSIMETER.

AUTHOR- MILLERO, F.J.; KNOX, J.H.; EMMET, R.T. [MIAMI UNIV., FLA. (USA). ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES].

REFERENCE- J. SOLUTION CHEM., V. 1 (2), P. 173-186(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; TABLES; COMPRESSIBILITY; DENSITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; MODERATE PRESSURE; ELEVATED PRESSURE; HIGH PRESSURE; STANDARD TEMPERATURE; MEASURING INSTRUMENTS; MAGNETIC FLOAT METHOD; SODIUM CHLORIDES.

779

TITLE- THE EFFECT OF PRESSURE ON THE IONIZATION OF
WATER AT VARIOUS TEMPERATURES FROM MOLAL-VOLUME
DATA.

AUTHOR- MILLERO, F.J.;HOFF, E.V.;KAHN, L. [MIAMI
UNIV., FLA. (USA). ROSENSTIEL SCHOOL OF MARINE
AND ATMOSPHERIC SCIENCES].

REFERENCE- J. SOLUTION CHEM., V. 1 (4), P.
309-327(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; APPARENT MOLAL
VOLUME; COMPRESSIBILITY; DENSITY; DISSOCIATION
CONSTANT; EQUILIBRIUM CONSTANT; PARTIAL MOLAL
VOLUME; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; ELEVATED
PRESSURE; HIGH PRESSURE; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
MAGNETIC FLOAT METHOD; HYDROCHLORIC ACID;
SODIUM CHLORIDES; SODIUM HYDROXIDES; WATER.

780

TITLE- SEAWATER-A TEST OF MULTICOMPONENT ELECTROLYTE
SOLUTION THEORIES. I. THE APPARENT EQUIVALENT
VOLUME, EXPANSIBILITY, AND COMPRESSIBILITY OF
ARTIFICIAL SEAWATER.

AUTHOR- MILLERO, F.J. [MIAMI UNIV., FLA. (USA).
ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC
SCIENCES].

REFERENCE- J. SOLUTION CHEM., V. 2 (1), P.
1-22(1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; APPARENT MOLAL
VOLUME; COMPRESSIBILITY; THERMAL EXPANSIVITY;
ELEVATED CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; MAGNETIC FLOAT METHOD; SEA WATER.

781

TITLE- ELECTRICAL CONDUCTIVITIES OF AQUEOUS SOLUTIONS OF KCL, KOH AND HCL, AND THE IONIZATION OF WATER AT HIGH SHOCK PRESSURES.

AUTHOR- HAMANN, S.D.; LINTON, M. [COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, FISHERMEN'S BEND (AUSTRALIA), DIV. OF APPLIED CHEMISTRY].

REFERENCE- .

DESCRIPTORS- DENSITY; EXPERIMENTAL RESULTS; ELECTRIC CONDUCTIVITY; DISSOCIATION CONSTANT; HYDROCHLORIC ACID; POTASSIUM CHLORIDES; POTASSIUM HYDROXIDES; WATER; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH PRESSURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; HIGH TEMPERATURE.

782

HAMER 68
SOLUTIONS/THERMODYNAMICS

TITLE- THEORETICAL MEAN ACTIVITY COEFFICIENTS OF STRONG ELECTROLYTES IN AQUEOUS SOLUTIONS FROM 0 TO 100 C.

AUTHOR- HAMER, W.J. [NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C. (USA)].

REFERENCE- THEORETICAL MEAN ACTIVITY COEFFICIENTS OF STRONG ELECTROLYTES IN AQUEOUS SOLUTIONS FROM 0 TO 100 C. NSRDS-NBS24, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C., DECEMBER, 1968,

DESCRIPTORS- THEORETICAL TREATMENTS; TABLES; DIELECTRIC CONSTANT; ACTIVITY COEFFICIENT; CHEMICAL POTENTIAL; ELECTROLYTES; LOW CONCENTRATION; MODERATE CONCENTRATION; STANDARD PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE.

783

HAMER 72
SOLUTIONS/THERMODYNAMICS

TITLE- OSMOTIC COEFFICIENTS AND MEAN ACTIVITY COEFFICIENTS OF UNI-UNIVALENT ELECTROLYTES IN WATER AT 25 DEGREES C.

AUTHOR- HAMER, W.J.; WU, Y.-C. [NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C. (USA)].

REFERENCE- J. PHYS. CHEM. REF. DATA, V. 1 (4), P. 1047-1099(1972).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; STANDARD PRESSURE; STANDARD TEMPERATURE; THERMODYNAMICS; ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT; ELECTROLYTES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

784

HARMAN 27
SOLUTIONS/MISC.

TITLE- AQUEOUS SOLUTIONS OF SODIUM SILICATES VI HETEROGENEOUS EQUILIBRIA SYSTEM/NA₂O/SIO₂/H₂O, AT 25 C.

AUTHOR- HARMAN, R.W. [UNIVERSITY COLL., LONDON (UK)].

REFERENCE- J. PHYS. CHEM., V. 31, P. 511-518(1927).

DESCRIPTORS- GRAPHS; TABLES; SOLUBILITY; STANDARD PRESSURE; STANDARD TEMPERATURE; SILICATES.

785

HELGESON 67
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- SOLUTION CHEMISTRY IN METAMORPHISM.

AUTHOR- HELGESON, H.C. [NORTHWESTERN UNIV., EVANSTON, ILL. (USA)].

REFERENCE- RES. GEOCHEM., V.2, P.362-404(1967).

DESCRIPTORS- THEORETICAL TREATMENTS; EQUILIBRIUM CONSTANT; THERMODYNAMICS; CHEMICAL POTENTIAL; ELECTROLYTES; IONS; MINERALS; SEA WATER; SILICATES; HYDROCHLORIC ACID; POTASSIUM CHLORIDES; SODIUM CHLORIDES; SALTON SEA.

786

TITLE- GEOLOGIC AND THERMODYNAMIC CHARACTERISTICS OF
THE SALTON SEA GEOTHERMAL SYSTEM.

AUTHOR- HELGESON, H.C. [NORTHWESTERN UNIV.,
EVANSTON, ILL. (USA)].

REFERENCE- AM. J. SCI., V.266, P.129-166(1968).

DESCRIPTORS- THERMODYNAMICS; ENTHALPY; MINERALS;
CALCIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; SALTON SEA; HIGH CONCENTRATION;
MODERATE PRESSURE; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE.

787

TITLE- THERMODYNAMICS OF HYDROTHERMAL SYSTEMS AT
ELEVATED TEMPERATURES AND PRESSURES.

AUTHOR- HELGESON, H.C. [NORTHWESTERN UNIV.,
EVANSTON, ILL. (USA)].

REFERENCE- AM. J. SCI., V.267, P.729-804(1969).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
EMPIRICAL EQUATIONS; GRAPHS; TABLES; DIELECTRIC
CONSTANT; DISSOCIATION CONSTANT; EQUILIBRIUM
CONSTANT; SOLUBILITY; THERMODYNAMICS; ACTIVITY
COEFFICIENT; ENTHALPY; ENTROPY; SPECIFIC HEAT;
ELECTROLYTES; IONS; MINERALS; SILICATES;
CALCIUM CARBONATES; CALCIUM SULFATES; CARBON
DIOXIDE; SODIUM CHLORIDES; WATER; HYDROGEN
SULFIDES; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; MODERATE PRESSURE; ELEVATED
PRESSURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE.

788

TITLE- APPARENT AND PARTIAL MOLAL VOLUMES OF
NA-KAOLIN AND NA CL IN KAOLIN SUSPENSIONS.

AUTHOR- HELMY, A.K.; ASSAAD, F.F.; HASSAN, M.N.; SODEK,
H. [ALEXANDRIA UNIV. (EGYPT)].

REFERENCE- J. PHYS. CHEM., V.72 (7),
P.2358-2361(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; APPARENT
MOLAL VOLUME; EXPERIMENTAL RESULTS; PARTIAL
MOLAL VOLUME; PYCNOMETERS; SODIUM CHLORIDES;
KAOLIN; ELEVATED CONCENTRATION; STANDARD
PRESSURE; MODERATE TEMPERATURE.

789

HEPBURN 32
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THE VAPOR PRESSURE OF WATER OVER AQUEOUS
SOLUTIONS OF THE CHLORIDES OF THE
ALKALINE-EARTH METALS. PART III. CORRELATION
WITH OTHER PHYSICAL PROPERTIES OF SOLUTIONS.

AUTHOR- HEPBURN, J.R.I. [POLYTECHNIC OF NORTH LONDON
(UK)].

REFERENCE- J. CHEM. SOC., V.1932A, P.575-582(1932).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; TABLES;
DENSITY; MELTING POINT; VAPOR PRESSURE;
VISCOSITY; THERMODYNAMICS; DILUTION HEAT;
BARIUM CHLORIDES; CALCIUM CHLORIDES; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE.

790

HILSEN RATH 55

TITLE- THE THERMODYNAMIC PROPERTIES OF STEAM.
CHAPTER 9.

AUTHOR- HILSEN RATH, J.; BECKETT, C.W.; BENEDICT,
W.S.; FAND, L.; HOGE, H.J.; MASI, J.F.; NUTTALL,
R.L.; TOULOUKIAN, Y.S.; WOOLLEY, H.W. [NATIONAL
BUREAU OF STANDARDS, WASHINGTON, D.C. (USA)].

REFERENCE- TABLES OF THERMAL PROPERTIES OF GASES.
U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON 25,
D.C., NOVEMBER 1, 1955, P. 437-488.

DESCRIPTORS- REVIEWS; GRAPHS; TABLES;
COMPRESSIBILITY; DENSITY; THERMAL CONDUCTIVITY;
VAPOR PRESSURE; VISCOSITY; THERMODYNAMICS;
ENTHALPY; ENTROPY; FREE ENERGY; SPECIFIC HEAT;

WATER; MODERATE PRESSURE; ELEVATED PRESSURE;
LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; HIGH
TEMPERATURE.

791

HOYT 67
SOLUTIONS/MISC.

TITLE- VAPOR PRESSURE OF STRONG SODIUM HYDROXIDE
SOLUTIONS.

AUTHOR- HOYT, E.B. [ALLIED CHEMICAL CORP., SYRACUSE,
N.Y. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V.12 (4),
P.461-464(1967).

DESCRIPTORS- GRAPHS; TABLES; VAPOR PRESSURE;
MEASURING INSTRUMENTS; SODIUM HYDROXIDES; HIGH
CONCENTRATION; LOW PRESSURE; ELEVATED
TEMPERATURE; HIGH TEMPERATURE.

792

HORNE 67
SOLUTIONS/MISC.

TITLE- THE ELECTRICAL CONDUCTIVITY OF POTASSIUM
CHLORIDE IN HEAVY WATER IN THE -2 TO 12 C
RANGE.

AUTHOR- HORNE, R.A.; JOHNSON, D.S. [ARTHUR D. LITTLE,
INC., CAMBRIDGE, MASS. (USA)].

REFERENCE- J. PHYS. CHEM., V.71 (6),
1936-1937(1967).

DESCRIPTORS- GRAPHS; VISCOSITY; HIGH CONCENTRATION;
ELEVATED PRESSURE; HIGH PRESSURE; SEA WATER;
SODIUM CHLORIDES; TABLES; EXPERIMENTAL RESULTS;
ELECTRIC CONDUCTIVITY; HEAVY WATER; POTASSIUM
CHLORIDES; WATER; ELEVATED CONCENTRATION;
STANDARD PRESSURE; LOW TEMPERATURE.

793

HORNE 67B
SOLUTIONS/MISC.

TITLE- THE ELECTRICAL CONDUCTIVITY OF AQUEOUS 0.03
TO 4.0 M POTASSIUM CHLORIDE SOLUTIONS UNDER
HYDROSTATIC PRESSURE.

AUTHOR- HORNE, R.A.; YOUNG, R.P. [ARTHUR D. LITTLE,
INC., CAMBRIDGE, MASS. (USA)].

REFERENCE- J. PHYS. CHEM., V.71 (12),
P.3824-32(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; DENSITY; ELECTRIC
CONDUCTIVITY; VISCOSITY; SEA WATER; POTASSIUM
CHLORIDES; WATER; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
HIGH PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE.

794

HOOVER 70
SOLUTIONS/MISC.

TITLE- THE FREQUENCY EXTRAPOLATION OF CONDUCTANCE
DATA FOR AQUEOUS SALT SOLUTIONS.

AUTHOR- HOOVER, T.B. [NATIONAL BUREAU OF STANDARDS,
WASHINGTON, D.C. (USA)].

REFERENCE- J. PHYS. CHEM., V.74 (13),
P.2667-2673(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; ELECTRIC CONDUCTIVITY;
MEASURING INSTRUMENTS; ELECTROLYTES; SEA WATER;
POTASSIUM CHLORIDES; HIGH CONCENTRATION;
STANDARD PRESSURE; STANDARD TEMPERATURE.

795

ISDALE 72
SOLUTIONS/VOLUMETRIC

TITLE- PHYSICAL PROPERTIES OF SEA WATER
SOLUTIONS/DENSITY.

AUTHOR- ISDALE, J.D.; MORRIS, R. [NATIONAL
ENGINEERING LAB., EAST KILBRIDE (UK)].

REFERENCE- DESALINATION, V.10, P. 329-339(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; DILATOMETERS; SEA WATER; ELEVATED

CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE.

796

ISONO 67
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- RELATION BETWEEN THE VISCOSITY B- COEFFICIENT
AND THE MOLAL VOLUME OF ELECTROLYTES IN AQUEOUS
SOLUTIONS.

AUTHOR- ISONO, T.; TAMAMUSHI, R. [INSTITUTE OF
PHYSICAL AND CHEMICAL RESEARCH, WAKO, SAITAMA
(JAPAN)].

REFERENCE- ELECTROCHIM. ACTA, V.12,
P.1479-1482(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
APPARENT MOLAL VOLUME; HYDRATION NUMBER;
VISCOSITY; PYCNOMETERS; OSTWALD VISCOMETER;
ELECTROLYTES; BARIUM CHLORIDES; CALCIUM
CHLORIDES; CESIUM CHLORIDES; HYDROCHLORIC ACID;
LITHIUM BROMIDES; LITHIUM CHLORIDES; LITHIUM
IODIDES; MAGNESIUM CHLORIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
IODIDES; SODIUM BROMIDES; SODIUM CHLORIDES;
SODIUM IODIDES; STANDARD PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE.

797

JAIN 70
SOLUTIONS/VOLUMETRIC

TITLE- APPARENT MOLAL VOLUME AND EXPANSIBILITY OF
ELECTROLYTES.

AUTHOR- JAIN, D.V.S.; LARK, B.S. [PUNJAB UNIV.,
CHANDIGARH (INDIA). DEPT. OF CHEMISTRY].

REFERENCE- INDIAN J. CHEM., V.8(12),
P.1133-1134(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; APPARENT MOLAL VOLUME;
THERMAL EXPANSIVITY; MAGNETIC FLOAT METHOD;
SODIUM CHLORIDES; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE.

JARVIS 68
SOLUTIONS/MISC.

TITLE- SURFACE POTENTIALS OF AQUEOUS ELECTROLYTE SOLUTIONS.

AUTHOR- JARVIS, N.L.; SCHEIMAN, M.A. [NAVAL RESEARCH LAB., WASHINGTON, D.C. (USA)].

REFERENCE- J. PHYS. CHEM., V.72(1), P.74-78(1968).

DESCRIPTORS- GRAPHS; SURFACE POTENTIAL; SURFACE TENSION; ELECTROLYTES; BARIUM CHLORIDES; LITHIUM CHLORIDES; MAGNESIUM CHLORIDES; MAGNESIUM SULFATES; POTASSIUM CHLORIDES; POTASSIUM IODIDES; SODIUM BROMIDES; SODIUM CARBONATES; SODIUM CHLORIDES; SODIUM IODIDES; SODIUM SULFATES; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; LOW TEMPERATURE.

JONES 33B
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- THE VISCOSITY OF AQUEOUS SOLUTIONS AS A FUNCTION OF THE CONCENTRATION. II. POTASSIUM BROMIDE AND POTASSIUM CHLORIDE.

AUTHOR- JONES, G.; TALLEY, S.K. [HARVARD UNIV., CAMBRIDGE, MASS. (USA)].

REFERENCE- J. AM. CHEM. SOC., V.55, P.4124-4125(1933).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; EXPERIMENTAL RESULTS; DENSITY; VISCOSITY; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; LOW CONCENTRATION; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE.

JONES 37

TITLE- THE VISCOSITY OF AQUEOUS SOLUTIONS OF
ELECTROLYTES AS A FUNCTION OF THE
CONCENTRATION. V. SODIUM CHLORIDE.

AUTHOR- JONES, G.;CHRISTIAN, S.M. [HARVARD UNIV.,
CAMBRIDGE, MASS. (USA)].

REFERENCE- J. AM. CHEM. SOC., V.59, P.484-486(1937).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES;
EXPERIMENTAL RESULTS; DENSITY; VISCOSITY;
OSTWALD VISCOMETER; SODIUM CHLORIDES; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE.

801

JONES 40
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- THE VISCOSITY OF SOLUTIONS OF ELECTROLYTES AS
A FUNCTION OF THE CONCENTRATION. VII. SILVER
NITRATE, POTASSIUM SULFATE AND POTASSIUM
CHROMATE.

AUTHOR- JONES, G.;COLVIN, J.H. [HARVARD UNIV.,
CAMBRIDGE, MASS. (USA)].

REFERENCE- J. AM. CHEM. SOC., V.62, P.
338-340(1940).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; DENSITY;
VISCOSITY; ELECTROLYTES; POTASSIUM SULFATES;
LOW CONCENTRATION; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE.

802

JONES 57
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THE SOLUBILITY OF SEVERAL METAL SULFATES AT
HIGH TEMPERATURE AND PRESSURE IN WATER AND IN
AQUEOUS URANYL SULFATE SOLUTION.

AUTHOR- JONES, E.V.;LIETZKE, M.H.;MARSHALL, W.L.

[OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. AM. CHEM. SOC., V.79, P.267-271(1957).

DESCRIPTORS- TABLES; SOLUBILITY; SOLUTION HEAT;
ELECTROLYTES; URANIUM COMPOUNDS; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE.

803

KALYANARAMAN 73
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- HIGH-TEMPERATURE DEBYE-HUCKEL CORRELATED
SOLUBILITIES OF CALCIUM SULFATE IN AQUEOUS
SODIUM PERCHLORATE SOLUTIONS.

AUTHOR- KALYANARAMAN, R.; YEATTS, L.B.; MARSHALL, W.L.
[OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. CHEM. THERMODYN., V.5,
P.891-898(1973).

DESCRIPTORS- GRAPHS; TABLES; SOLUBILITY; ACTIVITY
COEFFICIENT; ELECTROLYTES; CALCIUM SULFATES;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
ELEVATED TEMPERATURE.

804

KAPUSTINSKII 60
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- DENSITY AND HEAT CAPACITY OF MIXED AQUEOUS
SOLUTIONS OF LITHIUM AND POTASSIUM CHLORIDES AT
25 C.

AUTHOR- KAPUSTINSKII, A.F.; STAKHANOVA, M.S.; VASILEV,
V.A. [D. I. MENDELEEV CHEMICO TECHNOLOGICAL
INSTITUTE (USSR)].

REFERENCE- BULL. ACAD. SCI., USSR, DIV. CHEM. SCI.,
NO. 12, P. 2082-2089(1960).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; APPARENT MOLAL VOLUME;
DENSITY; PARTIAL MOLAL VOLUME; APPARENT MOLAL
SPECIFIC HEAT; SPECIFIC HEAT; PYCNOMETERS;
LITHIUM CHLORIDES; POTASSIUM CHLORIDES;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;

STANDARD PRESSURE; STANDARD TEMPERATURE.

805

KELLY 65
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- DENSITIES AND VISCOSITIES OF POTASSIUM
HYDROXIDE SOLUTIONS AT LOW TEMPERATURE.

AUTHOR- KELLY, W.R.;BORZA, P.F.;HARRIGER, R.D.
[ALLIED CHEMICAL CORP., SYRACUSE, N.Y. (USA)].

REFERENCE- J. CHEM. ENG. DATA, V.10 (3),
P.233-234(1965).

DESCRIPTORS- GRAPHS; TABLES; DENSITY; VISCOSITY;
PYCNOMETERS; POTASSIUM HYDROXIDES; HIGH
CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE.

806

KAY 70
SOLUTIONS/MISC.

TITLE- TRANSFERENCE NUMBERS FOR AQUEOUS POTASSIUM
CHLORIDE AT 10 AND 1 C AND THE TEMPERATURE
COEFFICIENT OF IONIC CONDUCTANCES.

AUTHOR- KAY, R.L.;VIDULICH, G.A. [MELLON INST.,
PITTSBURGH, PA. (USA); PITTSBURGH UNIV., PA.
(USA)].

REFERENCE- J. PHYS. CHEM., V.74(13),
P.2718-2720(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
EXPERIMENTAL RESULTS; TRANSFERENCE NUMBER;
POTASSIUM CHLORIDES; MODERATE CONCENTRATION;
LOW TEMPERATURE; STANDARD TEMPERATURE.

807

KELL 67

TITLE- PRECISE REPRESENTATION OF VOLUME PROPERTIES
OF WATER AT ONE ATMOSPHERE.

AUTHOR- KELL, G.S. [NATIONAL RESEARCH COUNCIL OF
CANADA, OTTAWA, ONTARIO].

REFERENCE- J. CHEM. ENG. DATA, V.12(1),
P.66-69(1967).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; TABLES;
COMPRESSIBILITY; DENSITY; THERMAL EXPANSIVITY;
HEAVY WATER; WATER; STANDARD PRESSURE; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE.

808

KHAIBULLIN 65
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- PHASE EQUILIBRIA IN THE SODIUM CHLORIDE-WATER
SYSTEM AT HIGH TEMPERATURES.

AUTHOR- KHAIBULLIN, I.KH.;BORISOV, N.M.
[KRZHIZHANOVSKII MOSCOW INSTITUTE OF POWER
(USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V.39 (3),
P.361-364(1965). TRANSLATED FROM ZH. FIZ.
KHM., V. 39 (3) (1965).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; DENSITY;
EXPERIMENTAL RESULTS; VAPOR PRESSURE; GAMMA RAY
ABSORPTION; SODIUM CHLORIDES; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; MODERATE PRESSURE; ELEVATED PRESSURE;
ELEVATED TEMPERATURE; HIGH TEMPERATURE.

809

KHAIBULLIN 66
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- EXPERIMENTAL INVESTIGATION OF THE THERMAL
PROPERTIES OF AQUEOUS AND VAPOR SOLUTIONS OF
SODIUM AND POTASSIUM CHLORIDES AT PHASE
EQUILIBRIA.

AUTHOR- KHAIBULLIN, I.KH.;BORISOV, N.M.
[KRZHIZHANOVSKII MOSCOW INSTITUTE OF POWER
(USSR)].

REFERENCE- HIGH TEMP., V.4(4), P.489-494(1966).
TRANSLATED FROM TEPLOFIZ. VYS. TEMP., V. 4 (4),
P. 518-523 (1966).

DESCRIPTORS- GRAPHS; TABLES; DENSITY; VAPOR
PRESSURE; GAMMA RAY ABSORPTION; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; MODERATE PRESSURE; ELEVATED PRESSURE;
ELEVATED TEMPERATURE; HIGH TEMPERATURE.

810

KHAIBULLIN 73
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- A THERMODYNAMIC STUDY OF AQUEOUS AND STEAM
SOLUTIONS OF SODIUM SULFATE AT HIGH
TEMPERATURES.

AUTHOR- KHAIBULLIN, I.KH.;NOVIKOV, B.E.
[KRZHIZHANOVSKII MOSCOW INSTITUTE OF POWER
(USSR)].

REFERENCE- HIGH TEMP., V.4(2), P.276-282(1973).
TRANSLATED FROM TEPLOFIZ. VYS. TEMP., V. 11
(2), P. 320-327 (1973).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; DENSITY; VAPOR PRESSURE;
ENTHALPY; VAPORIZATION HEAT; GAMMA RAY
ABSORPTION; SODIUM CHLORIDES; SODIUM SULFATES;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; MODERATE PRESSURE; ELEVATED
PRESSURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE.

811

KHARE 62
SOLUTIONS/VOLUMETRIC

TITLE- COMPRESSIBILITIES OF MIXTURES OF
ELECTROLYTES.

AUTHOR- KHARE, P.L. [INDIAN INST. OF SCIENCE,
BANGALORE. DEPT. OF PHYSICS].

REFERENCE- J. SCI. IND. RES., SECT. B, V. 21, P.
61-64(1962).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
COMPRESSIBILITY; VELOCITY OF SOUND; MAGNESIUM
SULFATES; SODIUM CHLORIDES; SODIUM SULFATES;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;

HIGH CONCENTRATION; STANDARD PRESSURE; MODERATE TEMPERATURE.

812

KOROSI 68
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- VISCOSITIES OF BINARY AQUEOUS SOLUTIONS OF NaCl, KCl, Na₂SO₄, AND MgSO₄ AT CONCENTRATIONS AND TEMPERATURES OF INTEREST IN DESALINATION PROCESSES.

AUTHOR- KOROSI, A.; FABUSS, B.M. [MONSANTO RESEARCH CORP., EVERETT, MASS. (USA). BOSTON LABORATORY].

REFERENCE- J. CHEM. ENG. DATA, V. 13(4), P. 548-552(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; EXPERIMENTAL RESULTS; DENSITY; VISCOSITY; DILATOMETERS; PYCNOMETERS; MAGNESIUM SULFATES; POTASSIUM CHLORIDES; SODIUM CHLORIDES; SODIUM SULFATES; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE.

813

KRUIS 36
SOLUTIONS/VOLUMETRIC

TITLE- THE CONCENTRATION DEPENDENCE OF APPARENT MOLAL VOLUMES OF A STRONG ELECTROLYTE. (IN GERMAN). UBER DIE KONZENTRATIONSABHANGIGKEIT DES SCHEIN BAREN MOLVOLUMENS EINER STARKER ELEKTROLYTE.

AUTHOR- KRUIS, A. [MUENCHEN UNIV. (F.R. GERMANY). PHYSIKALISCH-CHEMISCHES INST.].

REFERENCE- Z. PHYSIK. CHEM., V.34 B, P.1-12(1936).

DESCRIPTORS- GRAPHS; TABLES; APPARENT MOLAL VOLUME; DENSITY; EXPERIMENTAL RESULTS; ELECTROLYTES; POTASSIUM CHLORIDES; SODIUM CHLORIDES; SODIUM SULFATES; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE.

KULKARNI 69
SOLUTIONS/VOLUMETRIC

TITLE- COMPRESSIBILITY STUDIES IN MIXED AQUEOUS
ELECTROLYTES.

AUTHOR- KULKARNI, A.G. [POONA UNIV. (INDIA). DEPT.
OF CHEMISTRY].

REFERENCE- INDIAN J. CHEM., V. 7 (4), P.333-5(1969).

DESCRIPTORS- GRAPHS; TABLES; COMPRESSIBILITY;
VELOCITY OF SOUND; ELECTROLYTES; BARIUM
CHLORIDES; MAGNESIUM CHLORIDES; MAGNESIUM
SULFATES; POTASSIUM CHLORIDES; POTASSIUM
NITRATES; SODIUM CHLORIDES; URANIUM COMPOUNDS;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE.

KUPPERS 74
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL MOLAL/EXPANSIBILITIES FROM THE
TEMPERATURE OF MAXIMUM DENSITY OF AQUEOUS
SOLUTIONS.

AUTHOR- KUPPERS, J.R. [NORTH CAROLINA UNIV.,
CHARLOTTE (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V.78, P. 1041-1042(1974).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; TABLES;
THERMAL EXPANSIVITY; ELECTROLYTES; CESIUM
CHLORIDES; LITHIUM BROMIDES; LITHIUM CHLORIDES;
LITHIUM IODIDES; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES; POTASSIUM IODIDES; SODIUM BROMIDES;
SODIUM CHLORIDES; SODIUM IODIDES;
TETRAMETHYLAMMONIUM CHLORIDES; LOW
CONCENTRATION; LOW PRESSURE; LOW TEMPERATURE.

KRESTOV 63
SOLUTIONS/THERMODYNAMICS

TITLE- THE PROBLEM OF PARTIAL MOLAL PROPERTIES.

AUTHOR- KRESTOV, G.A. [IVANOVO INST. OF CHEMICAL TECHNOLOGY (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 37 (6), P. 753-755(1963). TRANSLATED FROM ZH. FIZ. KHIM., V. 37 (6), (1963).

DESCRIPTORS- THEORETICAL TREATMENTS; THERMODYNAMICS; ACTIVITY COEFFICIENT; ENTROPY; IONS.

817

LA MER 27
SOLUTIONS/VOLUMETRIC

TITLE- THE PARTIAL MOLAL VOLUMES OF WATER AND SALT IN SOLUTIONS OF THE ALKALI HALIDES.

AUTHOR- LA MER, V.K.; GRONWALL, T.H. [COLUMBIA UNIV., NEW YORK (USA)].

REFERENCE- J. PHYS. CHEM., V. 31, P. 393-406(1927).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; TABLES; GRAPHS; PARTIAL MOLAL VOLUME; STANDARD PRESSURE; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES; CESIUM CHLORIDES; LITHIUM BROMIDES; LITHIUM CHLORIDES; LITHIUM IODIDES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; POTASSIUM IODIDES; SODIUM BROMIDES; SODIUM CARBONATES; SODIUM IODIDES; WATER.

818

LANMAN 34
SOLUTIONS/VOLUMETRIC

TITLE- THE COMPRESSIBILITY OF AQUEOUS SOLUTIONS.

AUTHOR- LANMAN, E.H.; MAIR, B.J. [BRYN MAWR COLL. PA. (USA). CHEMICAL LAB.].

REFERENCE- J. AM. CHEM. SOC., V. 56, P. 390-393(1934).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES; COMPRESSIBILITY; DENSITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; PIEZOMETERS; ELECTROLYTES; HYDROCHLORIC ACID; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; POTASSIUM HYDROXIDES; SODIUM CHLORIDES; SODIUM HYDROXIDES.

819

LEYENDEKKERS 71
SOLUTIONS/THERMODYNAMICS

TITLE- MEASUREMENT OF ACTIVITY COEFFICIENTS WITH
LIQUID ION-EXCHANGE ELECTRODES FOR THE SYSTEM
CALCIUM (II)-SODIUM (I)-CHLORIDE (I)-WATER.

AUTHOR- LEYENDEKKERS, J.V.; WHITFIELD, M.
[COMMONWEALTH SCIENTIFIC AND INDUSTRIAL
RESEARCH ORGANIZATION, CRONULLA (AUSTRALIA).
DIV. OF FISHERIES AND OCEANOGRAPHY].

REFERENCE- J. PHYS. CHEM., V. 75 (7), P.
957-963 (1971).

DESCRIPTORS- GRAPHS; TABLES; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; STANDARD PRESSURE;
STANDARD TEMPERATURE; ACTIVITY COEFFICIENT;
ELECTROMOTIVE FORCE; ION EXCHANGE ELECTRODES;
CALCIUM CHLORIDES; SODIUM CHLORIDES.

820

LIDE 73

TITLE- STATUS REPORT ON CRITICAL COMPILATION OF
PHYSICAL CHEMICAL DATA.

AUTHOR- LIDE, D.R.; ROSSMASSLER, S.A. [NATIONAL
BUREAU OF STANDARDS, WASHINGTON, D.C. (USA)].

REFERENCE- ANN. REV. PHYS. CHEM., V. 24, P.
135-158 (1973).

DESCRIPTORS- INFORMATION; REVIEWS; INFORMATION
SYSTEMS; PHYSICAL PROPERTIES.

821

LINDSAY 71
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- OSMOTIC COEFFICIENTS OF ONE MOLAL ALKALI
METAL CHLORIDE SOLUTIONS OVER A 300 C
TEMPERATURE RANGE.

AUTHOR- LINDSAY, W.T.; LIU, C.-T. [CALCUTTA UNIV.

(INDIA); WESTINGHOUSE RESEARCH LABS.,
PITTSBURGH, PA. (USA)].

REFERENCE- J. PHYS. CHEM., V. 75 (24), P.
3723-3727(1971).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS;
EXPERIMENTAL RESULTS; TABLES; VAPOR PRESSURE;
HIGH CONCENTRATION; MODERATE PRESSURE; ELEVATED
TEMPERATURE; MIXING HEAT; MIXING ENTROPY;
MIXING FREE ENERGY; OSMOTIC COEFFICIENT;
ELECTROLYTES; CESIUM CHLORIDES; HYDROCHLORIC
ACID; LITHIUM CHLORIDES; POTASSIUM CHLORIDES;
SODIUM CHLORIDES; WATER.

822

LINDSTROM 69
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- ESTIMATION OF THE BISULFATE ION DISSOCIATION
IN SOLUTIONS OF SULFURIC ACID AND SODIUM
BISULFATE.

AUTHOR- LINDSTROM, R.E.; WIRTH, H.E. [SYRACUSE UNIV.
RESEARCH INST., N.Y. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 73 (1), P.
218-223(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; APPARENT MOLAL
VOLUME; DISSOCIATION CONSTANT; EXPERIMENTAL
RESULTS; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; HYDROSTATIC WEIGHING;
ELECTROLYTES; IONS; SULFURIC ACID; SODIUM
BISULFATES.

823

LIU 70
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- OSMOTIC COEFFICIENTS OF AQUEOUS SODIUM
CHLORIDE SOLUTIONS FROM 125 TO 300 C.

AUTHOR- LIU, C.-T.; LINDSAY, W.T. [WESTINGHOUSE
RESEARCH LABS., PITTSBURGH, PA. (USA)].

REFERENCE- J. PHYS. CHEM., V. 74 (2), P.
341-346(1970).

DESCRIPTORS- GRAPHS; TABLES; EXPERIMENTAL RESULTS;
VAPOR PRESSURE; ELEVATED CONCENTRATION;
MODERATE PRESSURE; ELEVATED TEMPERATURE;
OSMOTIC COEFFICIENT; MEASURING INSTRUMENTS;
SODIUM CHLORIDES.

824

LUNDEN 41
SOLUTIONS/VOLUMETRIC

TITLE- THE COMPRESSIBILITY OF UNI-UNI VALENT
ELECTROLYTE SOLUTIONS. (IN GERMAN). DIE
KOMPRESSIBILITAT EIN-EIN-WERTIGER
ELEKTROLYTLOSUNGER.

AUTHOR- LUNDEN, B. [LUND UNIV. (SWEDEN)].

REFERENCE- SVEN. KEM. TIDSKR., V. 53, P.
86-96(1941).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
APPARENT MOLAL VOLUME; EXPERIMENTAL RESULTS;
COMPRESSIBILITY; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; ELECTROLYTES;
IONS; CESIUM CHLORIDES; LITHIUM BROMIDES;
LITHIUM CHLORIDES; LITHIUM IODIDES; POTASSIUM
BROMIDES; POTASSIUM CHLORIDES; POTASSIUM
FLUORIDES; POTASSIUM IODIDES; POTASSIUM
NITRATES; SODIUM BROMIDES; SODIUM CHLORIDES;
SODIUM FLUORIDES; SODIUM IODIDES.

825

LUNDEN 43
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THE COMPRESSIBILITY OF ELECTROLYTE SOLUTIONS.
(IN GERMAN). DIE KOMPRESSIBILITAT VON
ELEKTROLYTLOSUNGEN.

AUTHOR- LUNDEN, B. [LUND UNIV. (SWEDEN)].

REFERENCE- Z. PHYSIK. CHEM., V. 192, P.
345-378(1943).

DESCRIPTORS- GRAPHS; TABLES; APPARENT MOLAL VOLUME;
COMPRESSIBILITY; DENSITY; VELOCITY OF SOUND;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
LOW TEMPERATURE; ENTHALPY; ENTROPY;
ELECTROLYTES; IONS; CESIUM CHLORIDES;

HYDROCHLORIC ACID; POTASSIUM BROMIDES;
POTASSIUM CHLORIDES; POTASSIUM FLUORIDES;
POTASSIUM IODIDES; POTASSIUM NITRATES; SODIUM
BROMIDES; SODIUM CHLORIDES; SODIUM FLUORIDES;
SODIUM IODIDES.

826

LIETZKE 56

TITLE- THE SOLUBILITY OF SILVER SULFATE IN SULFURIC
ACID MEDIA AT HIGH TEMPERATURE. EFFECTS ON THE
SILVER, SILVER SULFATE ELECTRODE.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. AM. CHEM. SOC., V. 78, P.
3023-3025(1956).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
SOLUBILITY; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; SULFURIC
ACID; SILVER SULFATES.

827

LIETZKE 56B
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- THE THERMODYNAMICS OF INDIUM SULFATE
SOLUTIONS.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. AM. CHEM. SOC., V. 78, P.
4520-4526(1956).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ELECTRIC CONDUCTIVITY; SOLUBILITY; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ACTIVITY COEFFICIENT; PARTIAL
MOLAL SPECIFIC HEAT; ELECTROMOTIVE FORCE;
ELECTROLYTES; SILVER SULFATES.

828

LIETZKE 57
SOLUTIONS/MISC.

TITLE- ON THE SOLUBILITY OF Ag_2SO_4 IN VARIOUS
ELECTROLYTE MEDIA. EFFECTS OF THE SOLUBILITY OF
 Ag_2SO_4 IN $AgCl$ ON THE Ag , Ag_2SO_4 AND THE
 Ag , $AgCl$ ELECTRODES.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. AM. CHEM. SOC., V. 79, P.
2067-2071(1957).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
SOLUBILITY; LOW CONCENTRATION; MODERATE
CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; SULFURIC ACID; SILVER SULFATES.

829

LIETZKE 59
SOLUTIONS/MISC.

TITLE- THE SOLUBILITY OF SILVER SULFATE IN
ELECTROLYTE SOLUTIONS. PART 2. SOLUBILITY IN
POTASSIUM SULFATE SOLUTIONS.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 63, P.
1186-1187(1959).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
EXPERIMENTAL RESULTS; SOLUBILITY; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; POTASSIUM
SULFATES; SILVER SULFATES.

830

LIETZKE 59B
SOLUTIONS/MISC.

TITLE- THE SOLUBILITY OF SILVER SULFATE IN
ELECTROLYTE SOLUTIONS. PART 3. SOLUBILITY IN
SULFURIC ACID SOLUTIONS.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 63, P.
1188-1189(1959).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DISSOCIATION CONSTANT; SOLUBILITY; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SULFURIC ACID; SILVER SULFATES.

831

LIETZKE 59C
SOLUTIONS/MISC.

TITLE- THE SOLUBILITY OF SILVER SULFATE IN
ELECTROLYTE SOLUTIONS. PART 4. SOLUBILITY IN
NITRIC ACID SOLUTIONS.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 63, P.
1190-1192(1959).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DISSOCIATION CONSTANT; SOLUBILITY; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; NITRIC ACID; SILVER SULFATES.

832

LIETZKE 59D
SOLUTIONS/MISC.

TITLE- THE SOLUBILITY OF SILVER SULFATE IN
ELECTROLYTE SOLUTIONS. PART 5. SOLUBILITY IN
MAGNESIUM SULFATE SOLUTIONS.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 63, P.
1984-1985(1959).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
SOLUBILITY; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; MAGNESIUM
SULFATES; SILVER SULFATES.

833

LIETZKE 60
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THE SOLUBILITY OF SILVER SULFATE IN
ELECTROLYTE SOLUTIONS. PART 7. SOLUBILITY IN
URANYL SULFATE SOLUTIONS.

AUTHOR- LIETZKE, M.H.; STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 64, P. 816-820(1960).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DISSOCIATION CONSTANT; EQUILIBRIUM CONSTANT;
SOLUBILITY; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ENTHALPY;
ENTROPY; FREE ENERGY; URANIUM COMPOUNDS; SILVER
SULFATES.

834

LIETZKE 61
SOLUTIONS/THERMODYNAMICS

TITLE- THE CALCULATION OF ACTIVITY COEFFICIENTS FROM
OSMOTIC COEFFICIENT DATA.

AUTHOR- LIETZKE, M.H.; STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 65, P. 508-509(1961).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ACTIVITY
COEFFICIENT; OSMOTIC COEFFICIENT; ELECTROLYTES;
BARIUM CHLORIDES; CALCIUM CHLORIDES; CESIUM
CHLORIDES; LITHIUM BROMIDES; LITHIUM CHLORIDES;
LITHIUM IODIDES; MAGNESIUM CHLORIDES; MAGNESIUM
SULFATES; POTASSIUM BROMIDES; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; SODIUM SULFATES;
URANIUM COMPOUNDS.

835

LIETZKE 62
SOLUTIONS/THERMODYNAMICS

TITLE- THE THERMODYNAMIC INVESTIGATION OF AQUEOUS ELECTROLYTES TO 275 C.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. CHEM. EDUC., V. 39, P. 230-235(1962).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; EQUILIBRIUM CONSTANT; SOLUBILITY; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; ENTHALPY; ENTROPY; FREE ENERGY; PARTIAL MOLAL ENTHALPY; PARTIAL MOLAL SPECIFIC HEAT; SOLUTION HEAT; ELECTROMOTIVE FORCE; ELECTROLYTES; SILVER SULFATES.

836

LIETZKE 62B
SOLUTIONS/MISC.

TITLE- THE THERMODYNAMICS OF AQUEOUS ELECTROLYTE MIXTURES AT ELEVATED TEMPERATURES. THE SOLUBILITY OF SILVER SULFATE IN $\text{KNO}_3\text{-K}_2\text{SO}_4$, $\text{K}_2\text{SO}_4\text{-MgSO}_4$, AND $\text{K}_2\text{SO}_4\text{-H}_2\text{SO}_4$ MIXTURES.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 66, P. 2264-2266(1962).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES; SOLUBILITY; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; MAGNESIUM SULFATES; POTASSIUM NITRATES; POTASSIUM SULFATES; SILVER SULFATES.

837

LIETZKE 63
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS SOLUTIONS AT ELEVATED TEMPERATURES. IV. THE ACTIVITY COEFFICIENTS OF HYDROGEN BROMIDE AND POTASSIUM BROMIDE IN HYDROGEN BROMIDE-POTASSIUM BROMIDE MIXTURES.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 67, P.
2573-2576(1963).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
LOW CONCENTRATION; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE; ACTIVITY COEFFICIENT;
ENTHALPY; ENTROPY; FREE ENERGY; ELECTROMOTIVE
FORCE; ELECTROLYTES; POTASSIUM BROMIDES.

838

LIETZKE 63B
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THE SECOND DISSOCIATION CONSTANT OF
DEUTERIOSULFURIC ACID FROM 25 TO 225 C.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 67, P. 652-654(1963).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES;
DISSOCIATION CONSTANT; SOLUBILITY; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; ENTHALPY;
ENTROPY; FREE ENERGY; SULFURIC ACID; SILVER
SULFATES.

839

LIETZKE 64
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES. V. THE
THERMODYNAMIC PROPERTIES OF DCL SOLUTIONS.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 68, P.
3043-3048(1964).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD TEMPERATURE;
MODERATE TEMPERATURE; ELEVATED TEMPERATURE;
ACTIVITY COEFFICIENT; ENTHALPY; ENTROPY; FREE
ENERGY; ELECTROMOTIVE FORCE; HEAVY WATER;

LIETZKE 65
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES. VI. THE
THERMODYNAMIC PROPERTIES OF HCL-NACL MIXTURES.

AUTHOR- LIETZKE, M.H.; HUPF, H.B.; STOUGHTON, R.W.
[OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 69 (7), P.
2395-2399(1965).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ELEVATED CONCENTRATION; STANDARD TEMPERATURE;
MODERATE TEMPERATURE; ELEVATED TEMPERATURE;
ACTIVITY COEFFICIENT; FREE ENERGY;
ELECTROMOTIVE FORCE; ELECTROLYTES; HYDROCHLORIC
ACID; POTASSIUM BROMIDES; SODIUM CHLORIDES.

LIETZKE 66
SOLUTIONS/MISC.

TITLE- THE SOLUBILITY OF LANTHANUM SULPHATE IN
SULPHURIC ACID SOLUTIONS AT ELEVATED
TEMPERATURES.

AUTHOR- LIETZKE, M.H.; STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V. 28, P.
1063-1066(1966).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES;
DISSOCIATION CONSTANT; SOLUBILITY; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; ELEVATED TEMPERATURE;
ELECTROLYTES; SULFURIC ACID.

LIETZKE 66B
SOLUTIONS/MISC.

TITLE- THE SOLUBILITY OF Ag_2SO_4 IN $AgNO_3$ SOLUTIONS.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V. 28, P. 1877-1880(1966).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES; SOLUBILITY; LOW CONCENTRATION; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; ELECTROLYTES; SILVER SULFATES.

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LIETZKE 66C
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS SOLUTIONS AT ELEVATED TEMPERATURES. VII. THE THERMODYNAMIC PROPERTIES OF HCL- $BaCl_2$ MIXTURES.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 70, P. 756-760(1966).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; ACTIVITY COEFFICIENT; FREE ENERGY; ELECTROMOTIVE FORCE; BARIUM CHLORIDES; HYDROCHLORIC ACID.

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LIETZKE 67
SOLUTIONS/THERMODYNAMICS

TITLE- THE ACTIVITY COEFFICIENT OF POTASSIUM CHLORIDE IN AQUEOUS SOLUTION AS MEASURED WITH A CATION-SENSITIVE GLASS ELECTRODE.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. TENN. ACAD. SCI., V. 42, P. 26-27(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ELEVATED CONCENTRATION; EXPERIMENTAL RESULTS; HIGH CONCENTRATION; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ACTIVITY

COEFFICIENT; ISOPIESTIC MEASUREMENT;
ELECTROMOTIVE FORCE; POTASSIUM CHLORIDES.

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LIETZKE 67C
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THE THERMODYNAMICS OF AQUEOUS SILVER
SULPHATE-LANTHANUM SULPHATE SOLUTIONS.

AUTHOR- LIETZKE, M.H.; HALL, J.O. [TENNESSEE UNIV.,
KNOXVILLE (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. INORG. NUCL. CHEM., V. 29, P.
1249-1253(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
SOLUBILITY; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ACTIVITY
COEFFICIENT; ELECTROLYTES; SILVER SULFATES.

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LIETZKE 67D
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES. VIII. THE
THERMODYNAMIC PROPERTIES OF HYDROCHLORIC
ACID-LANTHANUM CHLORIDE MIXTURES.

AUTHOR- LIETZKE, M.H.; STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V. 71, P. 662-666(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE; ACTIVITY COEFFICIENT;
ENTHALPY; ENTROPY; FREE ENERGY; ELECTROMOTIVE
FORCE; ELECTROLYTES; HYDROCHLORIC ACID.

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LIETZKE 68
SOLUTIONS/MISC.

TITLE- A COMPARISON OF SEVERAL DIFFERENT MODELS FOR FITTING DATA ON THE SOLUBILITY OF SILVER SULFATE IN AQUEOUS SOLUTIONS CONTAINING VARIOUS SUPPORTING ELECTROLYTES.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- A COMPARISON OF SEVERAL DIFFERENT MODELS FOR FITTING DATA ON THE SOLUBILITY OF SILVER SULFATE IN AQUEOUS SOLUTIONS CONTAINING VARIOUS SUPPORTING ELECTROLYTES. ORNL-4325, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TN, OCTOBER, 1968, 21 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; SOLUBILITY; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; ELECTROLYTES; MAGNESIUM SULFATES; POTASSIUM NITRATES; POTASSIUM SULFATES; SILVER SULFATES.

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LIETZKE 68B
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS SOLUTIONS AT ELEVATED TEMPERATURES. IX. THE THERMODYNAMIC PROPERTIES OF HYDROCHLORIC ACID-GADOLINIUM CHLORIDE MIXTURES.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V.72, P.257-260(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES; ACTIVITY COEFFICIENT; FREE ENERGY; ELECTROMOTIVE FORCE; ELECTROLYTES; HYDROCHLORIC ACID; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE.

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LIETZKE 68C
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS SOLUTIONS AT ELEVATED TEMPERATURES. X. THE THERMODYNAMIC PROPERTIES OF HCL-KCL, HCL-RBCL, HCL-CSCL, HCL-MGCL2, HCL-CACL2, HCL-SRCL2, AND

HCL-ALCL3 MIXTURES.

AUTHOR- LIETZKE, M.H.; OBRIEN, H.A. [TENNESSEE UNIV., KNOXVILLE (USA). DEPT. OF CHEMISTRY; OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V.72, P.4408-4414(1968).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES; ACTIVITY COEFFICIENT; ELECTROMOTIVE FORCE; ELECTROLYTES; BARIUM CHLORIDES; CALCIUM CHLORIDES; CESIUM CHLORIDES; HYDROCHLORIC ACID; MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE.

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LIETZKE 68D
SOLUTIONS/THERMODYNAMICS

TITLE- A TWO-STRUCTURE MODEL FOR ELECTROLYTIC SOLUTIONS.

AUTHOR- LIETZKE, M.H.; STOUGHTON, R.W.; FUOSS, R.M. [OAK RIDGE NATIONAL LAB., TENN. (USA); YALE UNIV., NEW HAVEN, CONN. (USA). DEPT. OF CHEMISTRY].

REFERENCE- PROC. NAT. ACAD. SCI. USA, V.59 (1), P.39-45(1968).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL EQUATIONS; TABLES; ACTIVITY COEFFICIENT; FREE ENERGY; ELECTROLYTES; BARIUM CHLORIDES; CESIUM CHLORIDES; HYDROCHLORIC ACID; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; POTASSIUM SULFATES; SODIUM BROMIDES; SODIUM CHLORIDES; SODIUM SULFATES.

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LIETZKE 69
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS SOLUTIONS AT ELEVATED TEMPERATURES-XII. THE THERMODYNAMIC PROPERTIES OF HCL-CSCL-BACL2 MIXTURES.

AUTHOR- LIETZKE, M.H.; HUPF, H.B.; STOUGHTON, R.W. [TENNESSEE UNIV., KNOXVILLE (USA). DEPT. OF CHEMISTRY; OAK RIDGE NATIONAL LAB., TENN.

REFERENCE- J. INORG. NUCL. CHEM., V.31,
P.3481-3489(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ACTIVITY COEFFICIENT; FREE ENERGY; OSMOTIC
COEFFICIENT; ISOPIESTIC MEASUREMENT;
ELECTROMOTIVE FORCE; BARIUM CHLORIDES; CESIUM
CHLORIDES; HYDROCHLORIC ACID; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE.

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LIETZKE 69B
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES. XI THE
THERMODYNAMIC PROPERTIES OF HCL-LICL SOLUTIONS.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. TENN. ACAD. SCI., V.44 (3),
P.66-68(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
ACTIVITY COEFFICIENT; ELECTROMOTIVE FORCE;
HYDROCHLORIC ACID; LITHIUM CHLORIDES; ELEVATED
CONCENTRATION; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE.

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LIETZKE 69C
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- ON THE EXISTENCE OF THE COMPLEX (AGSO₄)-IN
AQUEOUS SOLUTIONS.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W. [OAK RIDGE
NATIONAL LAB., TENN. (USA)].

REFERENCE- J. PHYS. CHEM., V.73 (3),
P.745-746(1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; EQUILIBRIUM
CONSTANT; SOLUBILITY; THERMODYNAMICS; ACTIVITY
COEFFICIENT; ENTHALPY; ENTROPY; FREE ENERGY;
SOLUTION HEAT; SILVER SULFATES.

LIETZKE 71
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTROMOTIVE FORCE STUDIES IN AQUEOUS SOLUTIONS AT ELEVATED TEMPERATURES-XIII. THE THERMODYNAMIC PROPERTIES OF HCL-NACL-MGCL2 MIXTURES.

AUTHOR- LIETZKE, M.H.

HERDKLOTZ, R.J. [OAK RIDGE NATIONAL LAB., TENN. (USA); TENNESSEE UNIV., KNOXVILLE (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. INORG. NUCL. CHEM., V.33, P.1649-1658(1971).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; FREE ENERGY; ISOPIESTIC MEASUREMENT; ELECTROMOTIVE FORCE; BARIUM CHLORIDES; CESIUM CHLORIDES; HYDROCHLORIC ACID; MAGNESIUM CHLORIDES; SODIUM CHLORIDES; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD TEMPERATURE; MODERATE TEMPERATURE.

LIETZKE 71B
SOLUTIONS/THERMODYNAMICS

TITLE- ACTIVITY COEFFICIENT BEHAVIOR IN AQUEOUS BINARY SALT MIXTURES.

AUTHOR- LIETZKE, M.H.;HERDKLOTZ, R.J. [OAK RIDGE NATIONAL LAB., TENN. (USA); TENNESSEE UNIV., KNOXVILLE (USA)].

REFERENCE- J. TENN. ACAD. SCI., V.46, P.133-135(1971).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT; BARIUM CHLORIDES; CALCIUM CHLORIDES; CESIUM CHLORIDES; LITHIUM CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

LIETZKE 71C
SOLUTIONS/THERMODYNAMICS

TITLE- ERRATUM. ELECTROMOTIVE FORCE STUDIES IN
AQUEOUS SOLUTIONS AT ELEVATED TEMPERATURES-XII.
THE THERMODYNAMIC PROPERTIES OF HCL-CSCL-BACL2
MIXTURES.

AUTHOR- LIETZKE, M.H.; HUPF, H.B.; STOUGHTON, R.W.
[OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. INORG. NUCL. CHEM., V.33,
P.1533-1534(1971). ERRATUM FOR J. INORG. NUCL.
CHEM., V. 31, P. 3481 (1969).

DESCRIPTORS- EMPIRICAL EQUATIONS; ACTIVITY
COEFFICIENT; ELECTROMOTIVE FORCE; CESIUM
CHLORIDES; HYDROCHLORIC ACID; MAGNESIUM
CHLORIDES.

857

RIEDEL 51
SOLUTIONS/MISC.

TITLE- THE THERMAL CONDUCTIVITY OF AQUEOUS SOLUTIONS
OF STRONG ELECTROLYTES. (IN GERMAN). DIE
WARMELEIT FAHIGKEIT VON WASSRIGEN LOSUNGEN
STARKER ELECTROLYTE.

AUTHOR- RIEDEL, L.

REFERENCE- CHEM. INGR. TECH., V. 3, P. 59-64(1951).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
THERMAL CONDUCTIVITY; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD PRESSURE; LOW
TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES;
LITHIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES.

858

RAVDEL 74
SOLUTIONS/THERMODYNAMICS

TITLE- CALCULATION OF THE HEATS OF HYDRATION OF
IONS.

AUTHOR- RAVDEL, A.A.

REFERENCE- ZH. FIZ. KHIM., V. 48, P.
1319-1320(1974).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; DIELECTRIC CONSTANT; THERMODYNAMICS;
ENTHALPY; FREE ENERGY; ELECTROLYTES.

859

RAVDEL 74B
SOLUTIONS/MISC.

TITLE- TEMPERATURE AND CONCENTRATION VARIATION OF
THE HYDRATION OF ELECTROLYTES.

AUTHOR- RAVDEL, A.A.; PORAI-KOSHITS, A.B.; SAZONOV,
A.M.; SHMUILOVICH, G.A.

REFERENCE- ZH. FIZ. KHIM., V. 48, P. 1319(1974).

DESCRIPTORS- DIFFUSION; EXPERIMENTAL RESULTS;
ELECTRIC CONDUCTIVITY; STANDARD TEMPERATURE;
MODERATE TEMPERATURE; ELECTROLYTES.

860

PUCHKOV 74
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THE PROPERTIES OF AQUEOUS ELECTROLYTE
SOLUTIONS IN THE TEMPERATURE RANGE 25-350
DEGREES C.

AUTHOR- PUCHKOV, L.V. [LENSOVET TECHNOLOGICAL
INSTITUTE, LENINGRAD (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 48, P.
776(1974).

DESCRIPTORS- REVIEWS; EXPERIMENTAL RESULTS; DENSITY;
VAPOR PRESSURE; VISCOSITY; ENTHALPY; ENTROPY;
SPECIFIC HEAT; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE;
ELECTROLYTES; POTASSIUM CARBONATES; POTASSIUM
HYDROXIDES; POTASSIUM NITRATES; POTASSIUM
SULFATES; SODIUM CARBONATES; SODIUM HYDROXIDES;
SODIUM NITRATES; SODIUM SULFATES.

861

TITLE- APPLICATION OF IRREVERSIBLE THERMODYNAMICS TO
ELECTROLYTE SOLUTIONS. I. DETERMINATION OF
IONIC TRANSPORT COEFFICIENTS $L(I, J)$ FOR
ISOTHERMAL VECTOR TRANSPORT PROCESSES IN BINARY
ELECTROLYTE SYSTEMS.

AUTHOR- MILLER, D.G.

REFERENCE- J. PHYS. CHEM., V. 70 (8), P.
2639-2659(1966).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
EMPIRICAL EQUATIONS; GRAPHS; TABLES; DIFFUSION;
ELECTRIC CONDUCTIVITY; ELECTROMOTIVE FORCE;
TRANSFERENCE NUMBER; THERMODYNAMICS; ACTIVITY
COEFFICIENT; OSMOTIC COEFFICIENT; INFINITE
DILUTION; LOW CONCENTRATION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; ELECTROLYTES; BARIUM CHLORIDES;
CALCIUM CHLORIDES; HYDROCHLORIC ACID; LITHIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

862

TITLE- THE APPARENT AND PARTIAL MOLAL VOLUMES OF
ELECTROLYTES IN WATER AND IN AQUEOUS SODIUM
CHLORIDE SOLUTIONS.

AUTHOR- LEE, S. [YALE UNIV., NEW HAVEN, CONN. (USA)].

REFERENCE- UNIVERSITY MICROFILMS, INC., ANN ARBOR
MICHIGAN, 1966,

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; APPARENT MOLAL VOLUME;
DENSITY; PARTIAL MOLAL VOLUME; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; PYCNOMETERS; CALCIUM CHLORIDES;
MAGNESIUM CHLORIDES; MAGNESIUM SULFATES;
POTASSIUM BROMIDES; SODIUM CHLORIDES; SODIUM
SULFATES.

863

TITLE- VAPOR PRESSURE LOWERING OF AQUEOUS SOLUTIONS
AT ELEVATED TEMPERATURES.

AUTHOR- LINDSAY, W.T.; LIU, C.-T.

REFERENCE- VAPOR PRESSURE LOWERING OF AQUEOUS
SOLUTIONS AT ELEVATED TEMPERATURES. NO. 347,
U.S. OFF. SALINE WATER, RES. DEV. PROG. REP.,
1968, 234 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; BOILING POINT;
EQUILIBRIUM CONSTANT; VAPOR PRESSURE; SATURATED
VAPOR; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; ACTIVITY COEFFICIENT; FREE ENERGY;
OSMOTIC COEFFICIENT; PARTIAL MOLAL ENTHALPY;
PARTIAL MOLAL ENTROPY; MEASURING INSTRUMENTS;
SEA WATER; CESIUM CHLORIDES; HEAVY WATER;
LITHIUM CHLORIDES; MAGNESIUM CHLORIDES; SODIUM
CHLORIDES; SODIUM SULFATES; WATER.

864

LIU 72
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMICS OF SODIUM CHLORIDE SOLUTIONS
AT HIGH TEMPERATURES.

AUTHOR- LIU, C.-T.; LINDSAY, W.T. [WESTINGHOUSE
RESEARCH LABS., PITTSBURGH, PA. (USA)].

REFERENCE- J. SOLUTION CHEM., V. 1 (1), P.
45-69(1972).

DESCRIPTORS- REVIEWS; EXPERIMENTAL RESULTS;
EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DISSOCIATION CONSTANT; SOLUBILITY; VAPOR
PRESSURE; INFINITE DILUTION; HIGH
CONCENTRATION; LOW PRESSURE; STANDARD PRESSURE;
MODERATE PRESSURE; MODERATE TEMPERATURE;
ELEVATED TEMPERATURE; THERMODYNAMICS; ACTIVITY
COEFFICIENT; OSMOTIC COEFFICIENT; PARTIAL MOLAL
ENTROPY; PARTIAL MOLAL SPECIFIC HEAT; SOLUTION
HEAT; SODIUM CHLORIDES; WATER.

865

TITLE- THERMAL CONDUCTIVITY OF AQUEOUS SOLUTIONS OF ELECTROLYTES I. EXPERIMENTAL INVESTIGATION OF AQUEOUS SOLUTIONS OF KF, LiCl, NaCl, KCl, RbCl, CsCl, NaBr, KBr, NaJ, KJ, Na₂SO₄, BeSO₄, MgCl₂, CaCl₂, AlCl₃. (IN RUSSIAN).

AUTHOR- KAPUSTINSKII, A.F.;RUZAVIN, I.I.

REFERENCE- ZH. FIZ. KHIM., V. 29 (12), P. 2222-2229(1955).

DESCRIPTORS- GRAPHS; TABLES; THERMAL CONDUCTIVITY; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; ELECTROLYTES; CALCIUM CHLORIDES; LITHIUM CHLORIDES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; POTASSIUM FLUORIDES; POTASSIUM IODIDES; SODIUM BROMIDES; SODIUM CHLORIDES; SODIUM SULFATES.

866

KAPUSTINSKII 56
SOLUTIONS/MISC.

TITLE- THERMAL CONDUCTIVITY OF AQUEOUS SOLUTIONS OF ELECTROLYTES. II. APPARENT MOLAL CONDUCTIVITIES. MECHANISM OF THERMAL CONDUCTIVITY. (IN RUSSIAN).

AUTHOR- KAPUSTINSKII, A.F.;RUZAVIN, I.I.

REFERENCE- ZH. FIZ. KHIM., V. 30 (3), P. 548-556(1956).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; GRAPHS; TABLES; THERMAL CONDUCTIVITY; INFINITE DILUTION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; ELECTROLYTES; IONS; CALCIUM CHLORIDES; CESIUM CHLORIDES; LITHIUM CHLORIDES; MAGNESIUM CHLORIDES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; POTASSIUM IODIDES; SODIUM BROMIDES; SODIUM CHLORIDES; SODIUM IODIDES; SODIUM SULFATES.

867

KOROSI 688
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- THERMOPHYSICAL PROPERTIES OF SALINE WATER.

AUTHOR- KOROSI, A.;FABUSS, B.M.

REFERENCE- THERMOPHYSICAL PROPERTIES OF SALINE
WATER. NO. 363, U.S. OFF. SALINE WATER, RES.
DEV. PROG. REP., 1968, 53 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; DENSITY; THERMAL
CONDUCTIVITY; VISCOSITY; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; MEASURING
INSTRUMENTS; SEA WATER; MAGNESIUM SULFATES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES; SODIUM
SULFATES; WATER.

868

EL'DAROV 60
SOLUTIONS/MISC.

TITLE- THE THERMAL CONDUCTIVITY OF NON-AQUEOUS SALT
SOLUTIONS. II. THE MECHANISM OF THE THERMAL
CONDUCTIVITY OF ELECTROLYTES.

AUTHOR- EL'DAROV, F.G.

REFERENCE- RUSS. J. PHYS. CHEM., V. 34 (7), P.
677-679(1960).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
THERMAL CONDUCTIVITY; HIGH CONCENTRATION;
STANDARD PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; ELECTROLYTES; LITHIUM BROMIDES;
LITHIUM CHLORIDES; POTASSIUM BROMIDES;
POTASSIUM CHLORIDES; POTASSIUM IODIDES;
POTASSIUM NITRATES; SODIUM BROMIDES; SODIUM
CHLORIDES; SODIUM IODIDES; SODIUM NITRATES.

869

DEBYE 28
SOLUTIONS/MISC.

TITLE- DISPERSION OF THE CONDUCTIVITY AND THE
DIELECTRIC CONSTANT IN THE CASE OF STRONG
ELECTROLYTES.

AUTHOR- DEBYE, P.;FALKENHAGEN, H.

REFERENCE- PHYS. Z., V. 29 (13), P. 401-426(1928).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL

EQUATIONS; GRAPHS; DIELECTRIC CONSTANT;
ELECTRIC CONDUCTIVITY; RELAXATION TIME;
ELECTROLYTES; ELECTRIC FIELDS.

870

CHERNEN'KAYA 72
SOLUTIONS/MISC.

TITLE- EXPERIMENTAL DETERMINATION OF THERMAL
CONDUCTIVITIES OF AQUEOUS SOLUTIONS OF SALTS
AND AMMONIA AT 25 AND 50 DEGREES.

AUTHOR- CHERNEN'KAYA, E.I.;VERNIGORA, G.A.

REFERENCE- RUSS. J. APPL. CHEM., V. 45 (8), P.
1779-1782(1972).

DESCRIPTORS- TABLES; EXPERIMENTAL RESULTS; THERMAL
CONDUCTIVITY; MEASURING INSTRUMENTS; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE;
ELECTROLYTES; CALCIUM CHLORIDES; MAGNESIUM
CHLORIDES; SODIUM BICARBONATES; SODIUM
CARBONATES; SODIUM CHLORIDES; SODIUM SULFATES.

871

CHILDS 71
SOLUTIONS/THERMODYNAMICS

TITLE- EXCESS FREE ENERGIES OF MIXING AT
TEMPERATURES BELOW 25 DEGREES. ISOPIESTIC
MEASUREMENTS ON THE SYSTEMS H₂O-NACL-NA₂SO₄ AND
H₂O-NACL-MGSO₄.

AUTHOR- CHILDS, C.W.;PLATFORD, R.F.

REFERENCE- AUST. J. CHEM., V. 24, P.
2487-2491(1971).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; MIXING FREE ENERGY;
OSMOTIC COEFFICIENT; ISOPIESTIC MEASUREMENT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; LOW TEMPERATURE; CALCIUM
CHLORIDES; MAGNESIUM SULFATES; POTASSIUM
CHLORIDES; SILVER CHLORIDES; SODIUM SULFATES;
SULFURIC ACID.

872

DALEY
SOLUTIONS/THERMODYNAMICS

TITLE- THERMODYNAMIC PROPERTIES OF SEAWATER
CONCENTRATES.

AUTHOR- DALEY, J.G.; HILDING, W.E.; FISHER, D.A.
[CONNECTICUT UNIV., STORRS (USA)].

REFERENCE- TITLE AND PUBLISHER OF REPORT UNKNOWN.
P. 134-140.

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; THERMODYNAMICS;
ENTHALPY; ENTROPY; SPECIFIC HEAT; CALORIMETERS;
ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SEA WATER.

873

HEMLEY 67
SOLUTIONS/THERMODYNAMICS

TITLE- AQUEOUS SOLUTIONS AND HYDROTHERMAL ACTIVITY.

AUTHOR- HEMLEY, J.J. [GEOLOGICAL SURVEY, MENLO PARK,
CALIF. (USA)].

REFERENCE- AM. GEOPHYS. UNION, TRANS., V. 48 (2), P.
647-653(1967).

DESCRIPTORS- THERMODYNAMICS; REVIEWS.

874

INADA 72
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- ELECTRICAL CONDUCTIVITY OF CaSO_4 IN AQUEOUS
SOLUTION UNDER HIGH PRESSURE.

AUTHOR- INADA, E.; SHIMIZU, K.; OSUGI, J.

REFERENCE- REV. PHYS. CHEM. JPN., V. 42 (1), P.
1-11(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; DISSOCIATION; ELECTRIC
CONDUCTIVITY; EQUILIBRIUM CONSTANT;
THERMODYNAMICS; ENTHALPY; ENTROPY; FREE ENERGY;

INFINITE DILUTION; LOW CONCENTRATION; MODERATE
CONCENTRATION; STANDARD PRESSURE; ELEVATED
PRESSURE; HIGH PRESSURE; LOW TEMPERATURE;
STANDARD TEMPERATURE; MODERATE TEMPERATURE;
CALCIUM SULFATES.

875

URUSOVA 71B
SOLUTIONS/MISC.

TITLE- VAPOR PRESSURE AND SOLUBILITY IN THE SODIUM
CHLORIDE-WATER SYSTEM AT 350 DEGREES AND 400
DEGREES C.

AUTHOR- URUSOVA, M.A.; RAVICH, M.I. [ACADEMY OF
SCIENCES (USSR). KURNAKOV INST. OF GENERAL AND
INORGANIC CHEMISTRY].

REFERENCE- RUSS. J. INORG. CHEM., V. 16 (10), P.
1534-1535 (1971).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
VAPOR PRESSURE; SOLUBILITY; HIGH CONCENTRATION;
ELEVATED TEMPERATURE; SODIUM CHLORIDES.

876

TURQ 71
SOLUTIONS/MISC.

TITLE- SELF-DIFFUSION COEFFICIENTS IN AQUEOUS KCL
AND LICI SOLUTIONS. (IN FRENCH).

AUTHOR- TURQ, P.; LANTELME, F.; ROUMEGOUS, Y.; CHEMLA,
M. [LABORATOIRE D'ELECTROCHEMIE, PARIS

REFERENCE-

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; GRAPHS; TABLES; DIFFUSION; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; LITHIUM CHLORIDES; POTASSIUM
CHLORIDES.

877

SIMEON 72
SOLUTIONS/THERMODYNAMICS

TITLE- CONSTRUCTION OF A SIMPLE REACTION CALORIMETER
AND HEATS OF SOME STANDARD REACTION AT 20
DEGREES C.

AUTHOR- SIMEON, VL.; IVICIC, N.; TKALCEC, M. [YUGOSLAV
ACADEMY OF SCIENCES AND ARTS, ZAGREB. INST. FOR
MEDICAL RESEARCH; ZAGREB UNIV. (YUGOSLAVIA)].

REFERENCE- Z. PHYS. CHEM. NEUE FOLGE, V. 78, P.
1-12(1972).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
SOLUTION HEAT; CALORIMETERS; LOW CONCENTRATION;
MODERATE CONCENTRATION; LOW TEMPERATURE;
POTASSIUM CHLORIDES; NEUTRALIZATION; REACTION
HEAT; CALORIMETERS; NITRIC ACID; SODIUM
HYDROXIDES.

878

RASHKOVSKAYA 72
SOLUTIONS/MISC.

TITLE- SOLUBILITY IN AN AQUEOUS SYSTEM COMPOSED OF
SODIUM, CALCIUM, AND BARIUM CHLORIDES AT 75
DEGREE. III..

AUTHOR- RASHKOVSKAYA, E.A.; MOZHAROVA,
T.V.; PAVLYUCHENKO, E.N.

REFERENCE- ZH. PRIKL. KHIM. (LENINGRAD), V. 45 (7),
P. 1466-1469(1972).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
SOLUBILITY; MODERATE TEMPERATURE; BARIUM
CHLORIDES; CALCIUM CHLORIDES; SODIUM CHLORIDES;
MIXTURES.

879

GUREVICH 72
SOLUTIONS/THERMODYNAMICS

TITLE- VACUUM CALORIMETER FOR DETERMINING HEATS OF
REACTIONS. HEATS OF SOLUTION OF POTASSIUM
CHLORIDE AT 25 AND 50 DEGREES.

AUTHOR- GUREVICH, V.M.; SOKOLOV, V.A. [ACADEMY OF
SCIENCES (USSR). KURNAKOV INST. OF GENERAL AND
INORGANIC CHEMISTRY].

REFERENCE- RUSS. J. PHYS. CHEM., V. 46 (7), P.
1868-1871(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; TABLES; SOLUTION HEAT; CALORIMETERS; ELEVATED CONCENTRATION; STANDARD TEMPERATURE; MODERATE TEMPERATURE; POTASSIUM CHLORIDES.

880

MASHOVETS 73
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- DENSITY, VISCOSITY AND ELECTRICAL CONDUCTIVITY OF SEAWATER AT TEMPERATURES UP TO 300-350 C.

AUTHOR- MASHOVETS, V.P.; PUCHKOV, L.V.; SMAEV, V.N.; FEDOROV, M.K.; FEDOTOV, N.V.

REFERENCE- RUSS. J. APPL. CHEM., V. 46, P. 1988-1990(1973). TRANSLATED FROM ZH. PRIKL. KHIM., V. 46 (8), P. 1865-1868.

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; DENSITY; ELECTRIC CONDUCTIVITY; VISCOSITY; ELEVATED CONCENTRATION; STANDARD PRESSURE; MODERATE PRESSURE; ELEVATED PRESSURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELEVATED TEMPERATURE; SEA WATER; WATER.

881

KLIMENKO 70
SOLUTIONS/MISC.

TITLE- PRESSURE-TEMPERATURE DIAGRAM OF AQUEOUS CALCIUM AND LITHIUM SOLUTIONS.

AUTHOR- KLIMENKO, A.P.; MOGIL'NIY, V.I.; KRJUKOV, V.A.

REFERENCE- CHIM. IND., GENIE CHIM., V. 103 (5), P. 591-593(1970).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; GRAPHS; VAPOR PRESSURE; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW TEMPERATURE; MODERATE TEMPERATURE; CALCIUM CHLORIDES; LITHIUM CHLORIDES.

882

HOENICKE 70
SOLUTIONS/THERMODYNAMICS

TITLE- THERMOCHEMICAL CONTRIBUTION TO THE NEUTRAL
SALT PROBLEM OF ACIDITY IN THE HYDROCHLORIC
ACID- NaCl - H_2O TERNARY SYSTEM.

AUTHOR- HOENICKE, D. [TECHNISCHE UNIV. DRESDEN
(GERMAN DEMOCRATIC REPUBLIC). SEKTION CHEMIE].

REFERENCE- ELECTROCHIM. ACTA, V. 15 (5), P.
757-767(1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
SOLUTION HEAT; ELEVATED CONCENTRATION; STANDARD
TEMPERATURE; HYDROCHLORIC ACID; SODIUM

883

HOCH 67
SOLUTIONS/MISC.

TITLE- DIFFUSION AND THERMAL DIFFUSION IN DILUTE
ELECTROLYTE SOLUTIONS. (IN GERMAN).

AUTHOR- HOCH, K. [INSTITUT FUR PHYSIKALISCHE CHEMIE
DER TECHNISCHEN HOCHSCHULE AACHEN (F.R.
GERMANY)].

REFERENCE- Z. PHYS. CHEM. (FRANKFURT AM MAIN), V. 56
(1-2), P. 30-38(1967).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; TABLES; DIFFUSION; THERMAL
DIFFUSION; STANDARD TEMPERATURE; ELECTROLYTES;
IONS; BARIUM CHLORIDES; CALCIUM CHLORIDES;
SODIUM CHLORIDES.

884

GOROSHCHENKO 74
SOLUTIONS/THERMODYNAMICS

TITLE- ENERGY OF HYDRATION OF LITHIUM, SODIUM AND
 KCl IN SATURATED SOLUTIONS.

AUTHOR- GOROSHCHENKO, YA.G. [AN UKRAINSKOJ SSR,
KIEV. (UZ). INST. OBSHCHEJ I NEORGANICHESKOJ
KHIMII].

REFERENCE- RUSS. J. PHYS. CHEM., V. 48 (5), P.
1256-1258(1974).

DESCRIPTORS- TABLES; HYDRATION; ENTHALPY; STANDARD TEMPERATURE; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

885

LIETZKE 67B
SOLUTIONS/THERMODYNAMICS

TITLE- CORRELATION OF SEA SALT CONCENTRATION WITH THE EMF RESPONSE OF A CATION-SENSITIVE GLASS ELECTRODE.

AUTHOR- LIETZKE, M.H.; STOUGHTON, R.W.; SHEA, R. [OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. TENN. ACAD. SCI., V. 42 (4), P. 123-125(1967).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; ACTIVITY COEFFICIENT; ELECTROMOTIVE FORCE; SEA WATER.

886

LONGSWORTH 35
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- TRANSFERENCE NUMBERS OF AQUEOUS SOLUTIONS OF SOME ELECTROLYTES AT 25 C BY THE MOVING BOUNDARY METHOD.

AUTHOR- LONGSWORTH, L.G. [LABORATORIES OF THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH (USA)].

REFERENCE- J. AM. CHEM. SOC., V. 57, P. 1185-1191(1935).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL RESULTS; GRAPHS; TABLES; PARTIAL MOLAL VOLUME; TRANSFERENCE NUMBER; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; MOVING BOUNDARY METHOD; ELECTROLYTES; IONS; CALCIUM CHLORIDES; HYDROCHLORIC ACID; LITHIUM CHLORIDES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; POTASSIUM IODIDES; POTASSIUM NITRATES; SODIUM CHLORIDES; SODIUM SULFATES.

LEMMLEIN 61
SOLUTIONS/VOLUMETRIC

TITLE- RELATIONS AMONG THE PRINCIPAL THERMODYNAMIC
PARAMETERS IN A PART OF THE SYSTEM H₂O-NACL.

AUTHOR- LEMMLEIN, G.G.;KLEVTSOV, P.V. [ACADEMY OF
SCIENCES (USSR). INST. OF CRYSTALLOGRAPHY;
SIBERIAN BRANCH OF THE ACADEMY OF SCIENCES
(USSR). INSTITUTE OF INORGANIC CHEMISTRY].

REFERENCE- GEOCHEMISTRY (USSR), V. 1961 (2), P.
148-158(1961).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
DENSITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; MODERATE PRESSURE; ELEVATED
PRESSURE; HIGH PRESSURE; ELEVATED TEMPERATURE;
HIGH TEMPERATURE; AUTOCLAVES; SODIUM CHLORIDES.

KRUMGAL'Z 64B
SOLUTIONS/MISC.

TITLE- VAPOR PRESSURE OF NAOH SOLUTIONS (OF OVER 45
PER CENT CONCENTRATION) AT TEMPERATURES UP TO
400 C.

AUTHOR- KRUMGAL'Z, B.S.;MASHOVETS, V.P. [LENSOVET
TECHNOLOGICAL INSTITUTE, LENINGRAD (USSR)].

REFERENCE- J. APPL. CHEM. (USSR), V.37 (12),
P.2712-2713(1964). TRANSLATED FROM ZH. PRIKL.
KHIM., V. 37 (12), P. 2750-2752.

DESCRIPTORS- GRAPHS; TABLES; VAPOR PRESSURE; SODIUM
HYDROXIDES; HIGH CONCENTRATION; ELEVATED
TEMPERATURE.

KRUMGAL'Z 64
SOLUTIONS/VOLUMETRIC

TITLE- VAPOR PRESSURE OF NAOH SOLUTIONS (OF OVER 45
PER CENT BY WEIGHT) AT TEMPERATURES UP TO 400
C.

AUTHOR- KRUMGAL'Z, B.S.; MASHOVETS, V.P. [LENSOVET
TECHNOLOGICAL INSTITUTE, LENINGRAD (USSR)].

REFERENCE- RUSS. J. APPL. CHEM., V. 37 (12),
P. 2563-2566 (1964). TRANSLATED FROM ZH. PRIKL.
KHIM., V. 37 (12), P. 2596-2600.

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; APPARENT
MOLAL VOLUME; DENSITY; PARTIAL MOLAL VOLUME;
SODIUM HYDROXIDES; HIGH CONCENTRATION; ELEVATED
TEMPERATURE.

890

KAY 70B
SOLUTIONS/MISC.

TITLE- THE DETERMINATION OF THE PRESSURE DEPENDENCE
OF TRANSFERENCE NUMBERS.

AUTHOR- KAY, R.L.; PRIBADI, K.S.; WATSON, B. [MELLON
INST., PITTSBURGH, PA. (USA)].

REFERENCE- J. PHYS. CHEM., V. 74 (13),
P. 2724-2726 (1970).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; TABLES;
TRANSFERENCE NUMBER; POTASSIUM CHLORIDES;
MODERATE CONCENTRATION; HIGH PRESSURE; STANDARD
TEMPERATURE.

891

KAULGUD 65
SOLUTIONS/MISC.

TITLE- THE MEASUREMENT WITH A PHASE-COMPARISON
INTERFEROMETER OF VERY SMALL CHANGES OF SOUND
VELOCITY IN ELECTROLYTE SOLUTIONS. (IN
GERMAN). DIE MESSUNG KLEINSTER
SCHALLGESCHWINDIGKEITS ANDERUNGEN IN ELEKTROLYT
LOSUNGEN MIT DEM PHASEN VERGLEICH
SINTERFEROMETER.

AUTHOR- KAULGUD, M.V. [TECHNISCHE UNIV. BERLIN (F.
R. GERMANY)].

REFERENCE- ACUSTICA, V. 15, P. 377-382 (1965).

DESCRIPTORS- GRAPHS; EXPERIMENTAL RESULTS; VELOCITY
OF SOUND; MEASURING INSTRUMENTS; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; MODERATE
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE.

892

KALYANARAMAN 73B
SOLUTIONS/MISC.
SOLUTIONS/THERMODYNAMICS

TITLE- SOLUBILITY OF CALCIUM SULFATE AND ASSOCIATION
EQUILIBRIA IN $\text{CaSO}_4 + \text{Na}_2\text{SO}_4 + \text{NaClO}_4 + \text{H}_2\text{O}$ AT
273 TO 623 K.

AUTHOR- KALYANARAMAN, R.; YEATTS, L.B.; MARSHALL, W.L.
[OAK RIDGE NATIONAL LAB., TENN. (USA)].

REFERENCE- J. CHEM. THERMODYN., V. 5, P.
899-909(1973).

DESCRIPTORS- GRAPHS; TABLES; EQUILIBRIUM CONSTANT;
SOLUBILITY; ACTIVITY COEFFICIENT; OSMOTIC
COEFFICIENT; ELECTROLYTES; CALCIUM SULFATES;
SODIUM SULFATES; LOW TEMPERATURE; STANDARD
TEMPERATURE; ELEVATED TEMPERATURE.

893

ISDALE 72B
SOLUTIONS/MISC.

TITLE- PHYSICAL PROPERTIES OF SEA WATER
SOLUTIONS/VISOCITY.

AUTHOR- ISDALE, J.D.; SPENCE, C.M.; TUDHOPE, J.S.
[NATIONAL ENGINEERING LAB., EAST KILBRIDE (UK)].

REFERENCE- DESALINATION, V.10, P.319-328(1972).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
VISCOSITY; SEA WATER; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; LOW TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE.

894

MCKINNEY 72
SOLUTIONS/VOLUMETRIC

TITLE- 21. DENSITY AND COMPRESSIBILITY OF LIQUIDS.

AUTHOR- MCKINNEY, J.E. [NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C. (USA)].

LINDSAY, R. [TRINITY COLL., HARTFORD, CONN.
(USA)].

REFERENCE- AMERICAN INSTITUTE OF PHYSICS HANDBOOK.
MCGRAW-HILL BOOK COMPANY, NEW YORK, 1972, P.
2-148-2-151.

DESCRIPTORS- REVIEWS; COMPRESSIBILITY; DENSITY;
MEASURING INSTRUMENTS.

895

MACINNES 52
SOLUTIONS/VOLUMETRIC

TITLE- THE PARTIAL MOLAL VOLUMES OF POTASSIUM
CHLORIDE, POTASSIUM AND SODIUM IODIDES AND OF
IODINE IN AQUEOUS SOLUTION AT 25 C.

AUTHOR- MACINNES, D.A.; DAYHOFF, M.D. [LABORATORIES
OF THE ROCKEFELLER INSTITUTE FOR MEDICAL
RESEARCH (USA)].

REFERENCE- J. AM. CHEM. SOC., V. 74, P.
1017-1020(1952).

DESCRIPTORS- EMPIRICAL EQUATIONS; EXPERIMENTAL
RESULTS; TABLES; APPARENT MOLAL VOLUME;
DENSITY; PARTIAL MOLAL VOLUME; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; MAGNETIC FLOAT
METHOD; POTASSIUM CHLORIDES; POTASSIUM IODIDES;
SODIUM IODIDES.

896

LIETZKE 59E
SOLUTIONS/MISC.

TITLE- THE SOLUBILITY OF SILVER SULFATE IN
ELECTROLYTE SOLUTIONS. PART 1. SOLUBILITY IN
POTASSIUM NITRATE SOLUTIONS.

AUTHOR- LIETZKE, M.H.; STOUGHTON, R.W.

REFERENCE- J. PHYS. CHEM., V. 63, P. 1183-1186(1959).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
SOLUBILITY; ELEVATED CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; POTASSIUM NITRATES; SILVER

LIETZKE 74D
SOLUTIONS/THERMODYNAMICS

TITLE- THE PREDICTION OF OSMOTIC AND ACTIVITY
COEFFICIENTS FOR ELECTROLYTE MIXTURES AT
ELEVATED TEMPERATURES.

AUTHOR- LIETZKE, M.H.;STOUGHTON, R.W.

REFERENCE- THE PREDICTION OF OSMOTIC AND ACTIVITY
COEFFICIENTS FOR ELECTROLYTE MIXTURES AT
ELEVATED TEMPERATURES. ORNL-4999, OAK RIDGE
NATIONAL LABORATORY, OAK RIDGE, TN., 1974, 16
P..

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; ACTIVITY
COEFFICIENT; OSMOTIC COEFFICIENT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SEA WATER; HYDROCHLORIC ACID;
MAGNESIUM CHLORIDES; MAGNESIUM SULFATES; SODIUM
CHLORIDES; MIXTURES.

POTTER 76B
SOLUTIONS/VOLUMETRIC

TITLE- THE VOLUMETRIC PROPERTIES OF VAPOR SATURATED
AQUEOUS SODIUM SULFATE SOLUTIONS FROM 0 TO 325
DEGREES C BASED ON A REGRESSION OF THE
AVAILABLE LITERATURE DATA.

AUTHOR- POTTER, R.W.;BROWN, D.L.

REFERENCE- THE VOLUMETRIC PROPERTIES OF VAPOR
SATURATED AQUEOUS SODIUM SULFATE SOLUTIONS FROM
0 TO 325 DEGREES C BASED ON A REGRESSION OF THE
AVAILABLE LITERATURE DATA. OFR-76-255, U.S.
GEOLOGICAL SURVEY, MENLO PARK, CA., 1976, 6 P..

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; DENSITY;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
SATURATED VAPOR; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; SODIUM SULFATES.

POTTER 76
SOLUTIONS/VOLUMETRIC

TITLE- THE VOLUMETRIC PROPERTIES OF VAPOR SATURATED
AQUEOUS POTASSIUM CHLORIDE SOLUTIONS FROM 0 TO
400 DEGREES C BASED ON A REGRESSION OF THE
AVAILABLE LITERATURE DATA.

AUTHOR- POTTER, R.W.; BROWN, D.L.

REFERENCE- THE VOLUMETRIC PROPERTIES OF VAPOR
SATURATED AQUEOUS POTASSIUM CHLORIDE SOLUTIONS
FROM 0 TO 400 DEGREES C BASED ON A REGRESSION
OF THE AVAILABLE LITERATURE DATA. OFR-76-243,
U.S. GEOLOGICAL SURVEY, MENLO PARK, CA., 1976,
5 P..

DESCRIPTORS- TABLES; DENSITY; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; SATURATED
VAPOR; LOW TEMPERATURE; STANDARD TEMPERATURE;
MODERATE TEMPERATURE; ELEVATED TEMPERATURE;
POTASSIUM CHLORIDES.

900

ZDANOVSKII 72B
SOLUTIONS/THERMODYNAMICS

TITLE- CALCULATION OF THE HEATS OF SOLUTION OF
ELECTROLYTES.

AUTHOR- ZDANOVSKII, A.B.

REFERENCE- RUSS. J. PHYS. CHEM., V. 46 (11), P.
1653-1654(1972).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; SOLUTION HEAT; ELECTROLYTES;

901

POOL 64
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- DETERMINATION OF THERMODYNAMIC PROPERTIES OF
BRINES.

AUTHOR- POOL, M.J.; NEVENS, T.D.

REFERENCE- DETERMINATION OF THERMODYNAMIC PROPERTIES
OF BRINES. DRI NO. 2151, DENVER RESEARCH
INSTITUTE, DENVER, COLO., FEBRUARY, 1964, 22

DESCRIPTORS- GRAPHS; TABLES; BOILING POINT; DENSITY;
SOLUBILITY; ENTHALPY; PYCNOMETERS; HIGH
CONCENTRATION; LOW TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; CALCIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

902

GORBACHEV 748
SOLUTIONS/VOLUMETRIC

TITLE- SPECIFIC VOLUMES OF AQUEOUS SOLUTIONS OF
ALKALI-METAL CHLORIDES.

AUTHOR- GORBACHEV, S.V.; KONDRAT'EV, V.P.; ANDROSOV,
V.I.; KOLUPAEV, V.G.

REFERENCE- RUSS. J. PHYS. CHEM., V. 48 (11), P.
2789-2791 (1974).

DESCRIPTORS- EMPIRICAL EQUATIONS; GRAPHS; TABLES;
DENSITY; THERMAL EXPANSIVITY; LOW
CONCENTRATION; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; MODERATE
PRESSURE; MODERATE TEMPERATURE; ELEVATED
TEMPERATURE; ELECTROLYTES; LITHIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

903

RUDIN 69
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- THE RELATION BETWEEN TEMPERATURE, DENSITY AND
WATER CONTENT IN BOILING SOLUTIONS OF THE
SYSTEM K, NA// CL NO₃-H₂O SATURATED WITH SODIUM
CHLORIDE.

AUTHOR- RUDIN, V.YA.; YARYM-AGAEV, N.L.

REFERENCE- RUSS. J. APPL. CHEM., V. 42 (3), P.
662-663 (1969). TRANSLATED FROM ZH. PRIKL.
KHIM., V. 42 (3), P. 698-699 (1969).

DESCRIPTORS- ELECTROLYTES; TABLES; BOILING POINT;
DENSITY; HIGH CONCENTRATION; POTASSIUM
CHLORIDES; SODIUM CHLORIDES; MIXTURES.

904

FALKENHAGEN 52
SOLUTIONS/MISC.

TITLE- ON THE THEORY OF THE CONDUCTIVITY OF STRONG
NONASSOCIATING ELECTROLYTES AT HIGHER
CONCENTRATIONS.

AUTHOR- FALKENHAGEN, H.; LEIST, M.; KELBG, G.

REFERENCE- ON THE THEORY OF THE CONDUCTIVITY OF
STRONG NONASSOCIATING ELECTROLYTES AT HIGHER
CONCENTRATIONS. UCRL-TRANS- , LAWRENCE
LIVERMORE LABORATORY, LIVERMORE, CA., 1975, 13
P.. TRANSLATED FROM ANNALEN DER PHYSIK, SER. 6,
VOL. 11 (1), P. 51-59.

DESCRIPTORS- THEORETICAL TREATMENTS; DIELECTRIC
CONSTANT; ELECTRIC CONDUCTIVITY; ELECTROLYTES.

905

FALKENHAGEN 29
SOLUTIONS/MISC.

TITLE- THE INNER FRICTION OF ELECTROLYTIC SOLUTIONS
AND THEIR INTERPRETATION ACCORDING TO THE DEBYE
THEORY.

AUTHOR- FALKENHAGEN, H.; DOLE, M.

REFERENCE- THE INNER FRICTION OF ELECTROLYTIC
SOLUTIONS AND THEIR INTERPRETATION ACCORDING TO
THE DEBYE THEORY. UCRL-TRANS-10969, LAWRENCE
LIVERMORE LABORATORY, LIVERMORE, CA., 1975, 22
P.. TRANSLATED FROM Z. PHYS., V. 30, P. 611-622
(1929).

DESCRIPTORS- THEORETICAL TREATMENTS; VISCOSITY;
ELECTROLYTES.

906

HAAS 76
SOLUTIONS/THERMODYNAMICS

TITLE- SIMULTANEOUS EVALUATION AND CORRELATION OF
THERMODYNAMIC DATA.

AUTHOR- HAAS, J.L.; FISHER, J.R.

REFERENCE- AM. J. SCI., V. 276, P. 525-545 (1976).

DESCRIPTORS- EMPIRICAL EQUATIONS; THERMODYNAMICS.

907

ELLIOTT 75
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- COMPARISON OF BRINE PRODUCTION METHODS AND
CONVERSION PROCESSES FOR GEOTHERMAL ELECTRIC
POWER GENERATION.

AUTHOR- ELLIOTT, D.G.

REFERENCE- COMPARISON OF BRINE PRODUCTION METHODS
AND CONVERSION PROCESSES FOR GEOTHERMAL
ELECTRIC POWER GENERATION. EQL REPORT NO. 10,
ENVIRONMENTAL QUALITY LABORATORY, CALIFORNIA
INSTITUTE OF TECHNOLOGY, PASADENA, CA., JULY,
1975,

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; DENSITY;
VAPOR PRESSURE; ENTHALPY; ENTROPY; CALCIUM
CHLORIDES; POTASSIUM CHLORIDES; SODIUM

908

PETRENKO 67
SOLUTIONS/MISC.

TITLE- DETERMINATION OF THE LIMIT OF COMPLETE
SOLVATION FROM ULTRAACOUSTIC DATA.

AUTHOR- PETRENKO, L.A.; PETRENKO, YU.A. [BEDFORD
INST. OF OCEANOGRAPHY, DARTMOUTH, NOVA SCOTIA
(CANADA). FISHERIES RESEARCH BOARD OF CANADA].

REFERENCE- RUSS, J. STRUCT. CHEM., V. 8 (2), P.
212-215(1967). TRANSLATED FROM ZH. STRUKT.
KHIM., V. 8 (2), P. 212-215 (1967).

DESCRIPTORS- GRAPHS; TABLES; HYDRATION; VELOCITY OF
SOUND; ELECTROLYTES; CALCIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

909

EMELIN 71
SOLUTIONS/THERMODYNAMICS

TITLE- SHORT-RANGE ION-INTERACTION EFFECTS IN THE
HEATS OF DILUTION OF SOLUTIONS OF STRONG
ELECTROLYTES.

AUTHOR- EMELIN, V.P.;KESSLER, YU.M.;LAPSHIN, R.M.
[ACADEMY OF SCIENCES (USSR). INST. OF
ELECTROCHEMISTRY].

REFERENCE- RUSS. J. STRUCT. CHEM., V. 12 (3), P.
387-391(1971). TRANSLATED FROM ZH. STRUHT.
KHIM., V. 12(3), P. 387-391. (1971).

DESCRIPTORS- THEORETICAL TREATMENTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; THERMODYNAMICS;
DILUTION HEAT.

910

ELLIS 66B
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL MOLOL VOLUME OF BORIC ACID IN WATER
AT HIGH TEMPERATURE.

AUTHOR- ELLIS, A.J. [DEPARTMENT OF SCIENTIFIC AND
INDUSTRIAL RESEARCH, WELLINGTON (NEW ZEALAND)].

REFERENCE- CHEM. COMMUN., NO. 21, P. 802-803(1966).

DESCRIPTORS- EXPERIMENTAL RESULTS; BORIC ACID;
GRAPHS; PARTIAL MOLAL VOLUME; INFINITE
DILUTION; LOW TEMPERATURE; MODERATE
TEMPERATURE; ELEVATED TEMPERATURE; BARIUM
CHLORIDES; POTASSIUM CHLORIDES.

911

BATUECAS 46
SOLUTIONS/VOLUMETRIC

TITLE- PARTIAL MOLECULAR VOLUMES AT 0 DEGREES, OF
WATER, SODIUM CHLORIDE, AND POTASSIUM CHLORIDE
IN SOLUTIONS OF THOSE HALOGENS. (IN SPANISH).
DEL AGUA, CLNA, Y CLK, EN ALGUNAS DISOLUCIONES
DE ESTOS HALOGENUROS.

AUTHOR- BATUECAS, T.

REFERENCE- AN. FISICA QUIM. (MADRID), V. 42,P.
713-722(1946).

DESCRIPTORS- EMPIRICAL EQUATIONS; TABLES; APPARENT
MOLAL VOLUME; DENSITY; PARTIAL MOLAL VOLUME;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;

LOW TEMPERATURE; POTASSIUM CHLORIDES; SODIUM
CHLORIDES; WATER.

912

ACCASCINA 62

TITLE- ULTRASONIC BEHAVIOR OF LIQUID SYSTEMS.
ULTRASONIC VELOCITY AND ADIABATIC
COMPRESSIBILITY OF AQUEOUS SOLUTIONS OF MINERAL
ACIDS AT DIFFERENT TEMPERATURES.

AUTHOR- ACCASCINA, F.; SCHIAVO, S. [ROME UNIV.
(ITALY)].

REFERENCE- ELECTROLYTES, PROCEEDINGS OF AN
INTERNATIONAL SYMPOSIUM. 1962, P. 301-308.
REFERENCE. CHEM. ABSTR., V. 61, ABSTR. NO.
8918D.

913

AHLUWALIA 64

TITLE- HEAT CAPACITIES OF HIGH-TEMPERATURE AQUEOUS
SOLUTIONS.

AUTHOR- AHLUWALIA, J.C. [PURDUE UNIV., LAFAYETTE,
IND. (USA)].

REFERENCE- HEAT CAPACITIES OF HIGH-TEMPERATURE
AQUEOUS SOLUTIONS. THESIS, 1964, 109 P..
REFERENCE. CHEM. ABSTR., V. 61, ABSTR. NO.
8962C.

914

ANOSOV 47

TITLE- EQUILIBRIUM OF THE SYSTEM KCL-K₂SO₄-H₂O. (IN
RUSSIAN).

AUTHOR- ANOSOV, V. YA.; BYZOVA, E.A. [GERTSEN
PEDAGOG. INST., LENINGRAD (USSR)].

REFERENCE- IZV. SEKT. FIZ.-KHM. ANAL., INST.
OBSHCH. NEORG. KHM., AKAD. NAUK SSSR, V. 15,
P. 118-124(1947). REFERENCE. CHEM. ABSTR., V.
44, ABSTR. NO. 6253F.

915

AUSLANDER 64
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC
SOLUTIONS/THERMODYNAMICS

TITLE- PROPERTIES OF MIXTURES.

AUTHOR- AUSLANDER, G. [INSTITUTE PETROCHIM, BV.,
PLOESTI (ROMANIA). REPUBLICII 129].

REFERENCE- BR. CHEM. ENG., V. 9 (9), P. 618(1964).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
GRAPHS; PHYSICAL PROPERTIES; THERMODYNAMICS;
ELECTROLYTES; MIXTURES; NONAQUEOUS SOLUTIONS.

916

BAGCHI 65

TITLE- THE ROLE OF SHORT-RANGE FORCES IN THE THEORY
OF STRONG ELECTROLYTES. I. THE REPULSIVE FORCE
BETWEEN IONS.

AUTHOR- BAGCHI, S.N.; DAS, P.K. [CALCUTTA UNIV.
(INDIA)].

REFERENCE- BULL. NAT. INST. SCI. INDIA, NO. 29, P.
19-27(1965). REFERENCE. CHEM. ABSTR., V. 66,
ABSTR. NO. 119471G.

917

BRANCA 50
SOLUTIONS/MISC.

TITLE- THE COMPRESSIBILITY OF ELECTROLYTE SOLUTIONS.
(IN ITALIAN).

AUTHOR- BRANCA, G.; CARRELLI, A. [NAPLES UNIV.
(ITALY). ISTITUTO DI FISICA].

REFERENCE- IL NUOVO CIMENTO, V. 7 (3), P.
190-195(1950).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
COMPRESSIBILITY; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; ELECTROLYTES; POTASSIUM

CHLORIDES; SODIUM CHLORIDES.

918

BRANDER 36

TITLE- COMPRESSIBILITY OF AQUEOUS SOLUTIONS. (IN GERMAN).

AUTHOR- BRANDER, E.

REFERENCE- COMMENTAT. PHYS.-MATH., SOC. SCI. FENN., V. 9, P. 1-8(1936). REFERENCE. CHEM. ABSTR., V. 31, ABSTR. NO. 2903(5).

919

BRANNLAND 58

TITLE- DENSITY AND VISCOSITY OF SODIUM CARBONATE AND SODIUM SULFIDE SOLUTIONS. (IN GERMAN).

AUTHOR- BRANNLAND, R.

REFERENCE- OSTERR. CHEMIKER-ZTG., V. 59, P. 104-106(1958). REFERENCE. CHEM. ABSTR., V. 52, ABSTR. NO. 16014B.

920

BRIDGMAN 46
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- RECENT WORK IN THE FIELD OF HIGH PRESSURES.

AUTHOR- BRIDGMAN, P.W. [HARVARD UNIV., CAMBRIDGE, MASS. (USA)].

REFERENCE- REV. MOD. PHYS., V. 18, P. 1(1946).

DESCRIPTORS- REVIEWS; PHASE DIAGRAMS; HIGH PRESSURE.

921

BYZOVA 63

TITLE- AQUEOUS SOLUTIONS IN THE SYSTEM
K₂CO₃-K₂SO₄-KCL-H₂O AT 0, 30, 50, AND 70
DEGREES.

AUTHOR- BYZOVA, E.A.

REFERENCE- RUSS. J. INORG. CHEM., V. 8 (8), P.
1014-1017(1963).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
SOLUBILITY; HIGH CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; MODERATE
TEMPERATURE; MIXTURES; POTASSIUM CARBONATES;
POTASSIUM CHLORIDES; POTASSIUM SULFATES.

922

CHACRAVARTI 40
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- VISCOSITY OF ELECTROLYTIC MIXTURES IN DILUTE
SOLUTION.

AUTHOR- CHACRAVARTI, A.S.; PRASAD, B. [RAVENSHAW
COLL., CUTTACK (INDIA)].

REFERENCE- TRANS. FARADAY SOC., V. 36, P.
557-560(1940).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; DENSITY; VISCOSITY;
PYCNOMETERS; MODERATE CONCENTRATION; SATURATED
VAPOR; MODERATE TEMPERATURE; MIXTURES; BARIUM
CHLORIDES; MAGNESIUM CHLORIDES; SODIUM

923

CRISS 61B

TITLE- THERMODYNAMIC PROPERTIES OF HIGH-TEMPERATURE
AQUEOUS SOLUTIONS.

AUTHOR- CRISS, C.M.

REFERENCE- THERMODYNAMIC PROPERTIES OF
HIGH-TEMPERATURE AQUEOUS SOLUTIONS. PURDUE
UNIV., LAFAYETTE, INDIANA, 1961, 232 P..
REFERENCE. CHEM. ABSTR., V. 55, ABSTR. NO.
23025B.

CRISS 64
SOLUTIONS/THERMODYNAMICS

TITLE- THE THERMODYNAMIC PROPERTIES OF
HIGH-TEMPERATURE AQUEOUS SOLUTIONS. IV.
ENTROPIES OF IONS UP TO 200 DEGREES AND THE
CORRESPONDENCE PRINCIPLE.

AUTHOR- CRISS, C.M.; COBBLE, J.W. [PURDUE UNIV.,
LAFAYETTE, IND. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 86, P.
5385-5390(1964).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
EMPIRICAL EQUATIONS; GRAPHS; TABLES; ENTROPY;
INFINITE DILUTION; STANDARD TEMPERATURE;
MODERATE TEMPERATURE; ELEVATED TEMPERATURE;

CRISS 65

TITLE- THE THERMODYNAMIC PROPERTIES OF IONS IN
AQUEOUS AND NONAQUEOUS SOLUTIONS AT VARIOUS
TEMPERATURES.

AUTHOR- CRISS, C.M. [VERMONT UNIV., BURLINGTON

REFERENCE- THE THERMODYNAMIC PROPERTIES OF IONS IN
AQUEOUS AND NONAQUEOUS SOLUTIONS AT VARIOUS
TEMPERATURES. TID-22366, U. S. ATOMIC ENERGY
COMM., 1965, 22 P.. REFERENCE. CHEM. ABSTR., V.
64, ABSTR. NO. 15078B.

DAVIS 63

TITLE- THERMAL CONDUCTIVITIES OF AQUEOUS SOLUTIONS
OF CHLORIDES.

AUTHOR- DAVIS, D.S. [ALABAMA UNIV., UNIVERSITY

REFERENCE- IND. CHEM., V. 39, P. 22(1963).
REFERENCE. CHEM. ABSTR., V. 58, ABSTR. NO.
10752D.

927

DAUGHERTY 35

TITLE- PHYSICAL PROPERTIES OF WATER AND OTHER
FLUIDS.

AUTHOR- DAUGHERTY, R.L.

REFERENCE- TRANS. AM. SOC. MECH. ENGRS., V. 57, P.
193-196(1935). REFERENCE. CHEM. ABSTR., V. 29,
ABSTR. NO. 7142(7).

928

DRUCKER 46
SOLUTIONS/MISC.

TITLE- THE SURFACE TENSION CORRECTION FOR THE
CAPILLARY VISCOMETER.

AUTHOR- DRUCKER, C. [UPPSALA UNIV. (SWEDEN)].

REFERENCE- ARK. KEMI, MINERAL. GEOL., V. A22 (20), 8
P.(1946).

DESCRIPTORS- EXPERIMENTAL RESULTS; SURFACE TENSION;
VISCOSITY; OSTWALD VISCOMETER; STANDARD
PRESSURE; STANDARD TEMPERATURE.

929

EIGEN 54
SOLUTIONS/THERMODYNAMICS

TITLE- THE THERMODYNAMICS OF ELECTROLYTES AT HIGHER
CONCENTRATIONS.

AUTHOR- EIGEN, M.; WICKE, E. [GOETTINGEN UNIV. (F.R.
GERMANY). INST. FUER PHYSIKALISCHE CHEMIE].

REFERENCE- J. PHYS. CHEM., V. 58, P. 702-714(1954).

DESCRIPTORS- THEORETICAL TREATMENTS; GRAPHS;
DISSOCIATION; THERMODYNAMICS; ACTIVITY
COEFFICIENT; APPARENT MOLAL SPECIFIC HEAT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
CESIUM CHLORIDES; LITHIUM CHLORIDES; SODIUM
CHLORIDES.

ENER 54

TITLE- MEASUREMENTS OF THE VELOCITY OF ULTRASOUND IN
SEA WATER (BLACK SEA AND SEA OF MARMARA).

AUTHOR- ENER, C.; TASKOPRULU, N.S. [ISTANBUL UNIV.
(TURKEY)].

REFERENCE- REV. FAC. SCI., V. 19, P. 105-109 (1954).
REFERENCE. CHEM. ABSTR., V. 49, ABSTR. NO.
10684C.

FALKENHAGEN 35
SOLUTIONS/VOLUMETRIC

TITLE- ON THE COMPRESSIBILITY OF STRONG
ELECTROLYTES. (IN GERMAN). ZUR
KOMPRESSIBILITAT STARKER ELEKTROLYTE.

AUTHOR- FALKENHAGEN, H.H.; BACHEM, C. [KOELN UNIV.
(F.R. GERMANY)].

REFERENCE- Z. ELEKTROCHEM., V. 41, P. 570-575 (1935).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; COMPRESSIBILITY;
VELOCITY OF SOUND; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; STANDARD TEMPERATURE;
ELECTROLYTES; POTASSIUM BROMIDES; SODIUM
CARBONATES; SODIUM CHLORIDES.

GALINKER 64

TITLE- DIFFERENCE IN THE THERMODYNAMIC PROPERTIES OF
H₂O AND ELECTROLYTE SOLUTIONS DEPENDING ON THE
TEMPERATURE. (IN RUSSIAN).

AUTHOR- GALINKER, I.S.; RODNYANSKII, I.M.; KOROBKOV,
V.I.; LEKAKH, N.B. [V.V. DOKUCHAEV AGR. INST.,
KHARKOV (USSR)].

REFERENCE- UKR. FIZ. ZH. (RUSS. ED.), V. 9 (4), P.
401-405 (1964). REFERENCE. CHEM. ABSTR., V. 61,
ABSTR. NO. 10105D.

GARDNER 63
SOLUTIONS/THERMODYNAMICS
SOLUTIONS/MISC.

TITLE- OSMOTIC COEFFICIENTS OF SOME AQUEOUS SODIUM
CHLORIDE SOLUTIONS AT HIGH TEMPERATURE.

AUTHOR- GARDNER, E.R.; JONES, P.J.; DE NORDWALL, H.J.
[ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL,
DIDCOT, BERKS. (UK). CHEMISTRY DIVISION].

REFERENCE- TRANS. FARADAY SOC., V. 59, P.
1994-2000(1963).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; VAPOR PRESSURE;
OSMOTIC COEFFICIENT; ISOPIESTIC MEASUREMENT;
HIGH CONCENTRATION; SATURATED VAPOR; ELEVATED
TEMPERATURE; SODIUM CHLORIDES.

GLASS 34
SOLUTIONS/MISC.

TITLE- VISCOSITIES OF AQUEOUS SOLUTIONS OF
ELECTROLYTES. PART I. SODIUM SULFATE SOLUTIONS
OVER THE TEMPERATURE RANGE 25-40 DEGREES.

AUTHOR- GLASS, H.M.; MADGIN, W.M. [DURHAM UNIV. (UK)].

REFERENCE- J. CHEM. SOC. (LONDON), V. 1934, P.
1124-1128(1934).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; VISCOSITY; OSTWALD
VISCOMETER; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE; SODIUM SULFATES.

GLUECKAUF 65
SOLUTIONS/VOLUMETRIC

TITLE- MOLAR VOLUMES OF IONS.

AUTHOR- GLUECKAUF, E. [ATOMIC ENERGY RESEARCH
ESTABLISHMENT, HARWELL, DIDCOT, BERKS. (UK)].

REFERENCE- TRANS. FARADAY SOC., V. 61, P.
914-921(1965).

DESCRIPTORS- EXPERIMENTAL RESULTS; THEORETICAL
TREATMENTS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; APPARENT MOLAL VOLUME; INFINITE
DILUTION; STANDARD TEMPERATURE; ELECTROLYTES;
IONS; POTASSIUM CHLORIDES; SODIUM CHLORIDES.

936

GUGGENHEIM 54
SOLUTIONS/THERMODYNAMICS

TITLE- HEATS OF DILUTION OF AQUEOUS ELECTROLYTE
SOLUTIONS.

AUTHOR- GUGGENHEIM, E.A.; PRUE, J.E. [READING UNIV.
(UK). DEPT. OF CHEMISTRY].

REFERENCE- TRANS. FARADAY SOC., V. 50, P.
710-718(1954).

DESCRIPTORS- REVIEWS; THEORETICAL TREATMENTS;
EMPIRICAL EQUATIONS; GRAPHS; TABLES; ACTIVITY
COEFFICIENT; DILUTION HEAT; SPECIFIC HEAT; LOW
CONCENTRATION; MODERATE CONCENTRATION; STANDARD
PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; SODIUM CHLORIDES.

937

HEPLER 65
SOLUTIONS/THERMODYNAMICS

TITLE- DILATOMETRIC MEASUREMENTS OF APPARENT MOLAL
VOLUMES OF DILUTE AQUEOUS ELECTROLYTES.

AUTHOR- HEPLER, L.G.; STOKES, J.M.; STOKES, R.H.
[CARNEGIE INST. OF TECH., PITTSBURGH, PA.

STOKES, J.M.; STOKES, R.H. [NEW ENGLAND
UNIV., ARMIDALE (AUSTRALIA). DEPT. OF PHYSICAL
AND INORGANIC CHEMISTRY].

REFERENCE- TRANS. FARADAY SOC., V. 61, P.
20-29(1965).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
APPARENT MOLAL VOLUME; DENSITY; DILATOMETERS;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;

STANDARD PRESSURE; STANDARD TEMPERATURE;
ELECTROLYTES; SODIUM HYDROXIDES;
TETRAALKYLAMMONIUM COMPOUNDS.

938

HESS 40
SOLUTIONS/THERMODYNAMICS

TITLE- THE SPECIFIC HEATS OF SOME AQUEOUS SODIUM AND
POTASSIUM CHLORIDE SOLUTIONS AT SEVERAL
TEMPERATURES.

AUTHOR- HESS, C.B.; GRAMKEE, B.E. [ROCHESTER UNIV.,
N.Y. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 44, P. 483-494 (1940).

DESCRIPTORS- EXPERIMENTAL RESULTS; TABLES; SPECIFIC
HEAT; CALORIMETERS; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; LOW TEMPERATURE; STANDARD
TEMPERATURE; MODERATE TEMPERATURE; POTASSIUM
CHLORIDES; SODIUM CHLORIDES.

939

IONOV 69
SOLUTIONS/MISC.

TITLE- NMR ANALYSIS OF THE RELATIONSHIP BETWEEN
CLOSE-RANGE HYDRATION OF SALTED-OUT CATIONS AND
HYDRATION OF SALTING-OUT CATIONS. (IN
RUSSIAN).

AUTHOR- IONOV, V.I.; MAZITOV, R.K.; SAMOILOV, O.YA.

REFERENCE- RUSS. J. STRUCT. CHEM., V. 10 (3), P.
335-337 (1969). TRANSLATED FROM ZH. STRUKT.
KHIM., V. 10 (3), P. 407-410 (1969).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS;
HYDRATION; RELAXATION TIME; NUCLEAR MAGNETIC
RESONANCE; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; STANDARD
TEMPERATURE; ELECTROLYTES; MIXTURES; CALCIUM
CHLORIDES; CESIUM CHLORIDES; LITHIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

940

INGHAM 28

TITLE- THE APPARENT HYDRATION OF IONS. PART I.
DENSITIES AND VISCOSITIES OF SATURATED
SOLUTIONS OF SODIUM AND POTASSIUM CHLORIDES IN
HYDROCHLORIC ACID.

AUTHOR- INGHAM, J.W. [HERIOT-WATT UNIV., EDINBURGH
(UK)].

REFERENCE- J. CHEM. SOC., P. 1917-1930(1928).
REFERENCE. CHEM. ABSTR., V. 22, ABSTR. NO. 4034.

941

JESSUP 40

TITLE- SPECIFIC HEATS OF BRINES.

AUTHOR- JESSUP, R.S.

REFERENCE- REFRIG. ENG., V. 40, P. 100-101(1940).
REFERENCE. CHEM. ABSTR., V. 35, ABSTR. NO.
5382(5).

942

JONES 37B

TITLE- SURFACE TENSION OF SOLUTIONS OF ELECTROLYTES
AS A FUNCTION OF THE CONCENTRATION. I. A
DIFFERENTIAL METHOD FOR MEASURING RELATIVE
SURFACE TENSIONS.

AUTHOR- JONES, G.;RAY, W.A.

REFERENCE- J. AM. CHEM. SOC., V. 59, P.
187-198(1937). REFERENCE. CHEM. ABSTR., V. 31,
ABSTR. NO. 4565(6).

943

KAMINSKY 57
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- EXPERIMENTAL INVESTIGATION OF THE EFFECT OF
CONCENTRATION AND TEMPERATURE ON THE VISCOSITY
OF STRONG ELECTROLYTE SOLUTIONS. PART III. KCL,

K₂SO₄, MgCl₂, BeSO₄, AND MgSO₄ SOLUTIONS. (IN GERMAN).

AUTHOR- KAMINSKY, M. [MARBURG UNIV. (F.R. GERMANY). PHYSIKALISCHES INST.].

REFERENCE- Z. PHYS. CHEM. NEUE FOLGE, V. 12, P. 206-231(1957).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; DENSITY; VISCOSITY; LOW CONCENTRATION; MODERATE CONCENTRATION; ELEVATED CONCENTRATION; LOW TEMPERATURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; ELECTROLYTES; MAGNESIUM CHLORIDES; MAGNESIUM SULFATES; POTASSIUM CHLORIDES; POTASSIUM SULFATES.

944

KAUFMANN 34

TITLE- VISCOSITY OF REFRIGERATING BRINES.

AUTHOR- KAUFMANN, D.W.

REFERENCE- REFRIG. ENG., V. 27, P. 306-307(1934).
REFERENCE. CHEM. ABSTR., V. 28, ABSTR. NO. 5553(8).

945

KAULGUD 65B
SOLUTIONS/VOLUMETRIC

TITLE- VELOCITY OF SOUND IN DILUTE ELECTROLYTE SOLUTIONS.

AUTHOR- KAULGUD, M.V. [TECHNISCHE UNIV. BERLIN (F.R. GERMANY). INST. FUR TECHNISCHE AKUSTIK DER TECHNISCHER].

REFERENCE- Z. PHYS. CHEM. NEUE FOLGE, V. 47, P. 24-41(1965).

DESCRIPTORS- ELECTROLYTES; EXPERIMENTAL RESULTS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; COMPRESSIBILITY; VELOCITY OF SOUND; MEASURING INSTRUMENTS; LOW CONCENTRATION; MODERATE CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; MAGNESIUM CHLORIDES; MAGNESIUM SULFATES; POTASSIUM BROMIDES; POTASSIUM CHLORIDES; POTASSIUM IODIDES; SODIUM BROMIDES; SODIUM CHLORIDES; SODIUM IODIDES; SODIUM

SULFATES; STRONTIUM CHLORIDES.

946

KHARE 62B
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- COMPRESSIBILITY OF DILUTE SOLUTIONS OF
SULFURIC ACID.

AUTHOR- KHARE, P.L. [INDIAN INST. OF SCIENCE,
BANGALORE. DEPT. OF PHYSICS].

REFERENCE- TRANS. FARADAY SOC., V. 58, P.
363-367(1962).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
COMPRESSIBILITY; VELOCITY OF SOUND; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; SATURATED
VAPOR; MODERATE TEMPERATURE; SULFURIC ACID.

947

KLOCHKO 54

TITLE- STUDY OF AQUEOUS SOLUTIONS OF HYDROGEN
CHLORIDE AND PERCHLORIC ACID BY METHODS OF
PHYSICOCHEMICAL ANALYSIS. (IN RUSSIAN).

AUTHOR- KLOCHKO, M.A.; KURBANOV, M.S.

REFERENCE- AKAD. NAUK. SSSR, SEKTOR FIZ. KHIM. ANAL.
ISV., V. 24, P. 237-251(1954). REFERENCE.
TID-3354-R1, ABSTR. NO. 4821.

948

KLOCHKO 59

TITLE- AN INVESTIGATION OF THE CALCIUM
CHLORIDE-WATER SYSTEM BY PHYSICOCHEMICAL
ANALYSIS.

AUTHOR- KLOCHKO, M.A.; TAVKESHEVA, S.M.; BEZHAEV, M.S.

REFERENCE- UCH. ZAP. DAGEST. GOS. UNIV., V. 5, P.
103-116(1959). REFERENCE. CHEM. ABSTR., V. 56,
ABSTR. NO. 10990A.

949

KOBUS 55

TITLE- ELECTRICAL CONDUCTIVITY, VISCOSITY, AND DENSITY OF HIGHLY CONCENTRATED SOLUTIONS OF SODIUM HYDROXIDE. (IN RUSSIAN).

AUTHOR- KOBUS, G.L.

REFERENCE- TR. ODESS. GIDROMETEOROL. INST., NO. 7, P. 113-127(1955). REFERENCE. CHEM. ABSTR., V. 52, ABSTR. NO. 17908B.

950

KRISHNA 56

TITLE- HEAT TRANSFER MEDIA.

AUTHOR- KRISHNA, P.M.; VENKATESWARLU, D. [INDIAN INST. OF TECH., KHARAGPUR].

REFERENCE- CHEM. PROCESS ENG., V. 37, P. 382-388(1956). REFERENCE. CHEM. ABSTR., V. 51, ABSTR. NO. 2335H.

951

LEE 65

TITLE- MOLAL AND IONIC REFRACTIONS OF INORGANIC SUBSTANCES.

AUTHOR- LEE, H.

REFERENCE- SPEC. CONTRIB. INST. GEOPHYS. NAT. CENT. UNIV.. MIAOLI, TAIWAN, 1965, NO. 1, P. 35-58. REFERENCE. CHEM. ABSTR., V. 68, ABSTR. NO. 17206Y.

952

LENGYEL 63

TITLE- STUDIES ON THE STRUCTURE OF AQUEOUS IONIC

SOLUTIONS BY ANALYSIS OF THE DENSITY VERSES
MOLARITY CURVES. (IN HUNGARIAN).

AUTHOR- LENGYEL, S. [ELTE FIZ. KEM. TANSZEK,
BUDAPEST (HUNGARY)].

REFERENCE- MAG. KEM. FOLY., V. 69, P. 4-17(1963).
REFERENCE. CHEM. ABSTR., V. 58, ABSTR. NO.

953

LENGYEL 63B
SOLUTIONS/VOLUMETRIC

TITLE- STUDIES ON THE STRUCTURE OF AQUEOUS SOLUTIONS
CONTAINING TWO ELECTROLYTES BY DENSITY
DETERMINATIONS.

AUTHOR- LENGYEL, S.; FEZLER, G. [EOTVOS LORAND
TUDOMANYEGYETEM, BUDAPEST (HUNGARY). FIZIKAI
KEMIAI ES RADIOLOGIAI TANSZEK].

REFERENCE- ACTA CHIM. ACAD. SCI. HUNG., V. 37, P.
319-327(1963).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; TABLES; DENSITY; PYCNOMETERS;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; STANDARD TEMPERATURE;
ELECTROLYTES; MIXTURES; POTASSIUM CHLORIDES;
POTASSIUM FLUORIDES; SODIUM CHLORIDES; SODIUM
NITRATES.

954

LONG 55

TITLE- SOME THERMODYNAMIC PROPERTIES OF FISH AND
THEIR EFFECT ON THE RATE OF FREEZING.

AUTHOR- LONG, R.A.K. [TORRY RESEARCH STA., ABERDEEN
(SCOTLAND)].

REFERENCE- J. SCI. FOOD AGRIC., V. 6, P.
621-633(1955). REFERENCE. CHEM. ABSTR., V. 50,
ABSTR. NO. 1229C.

955

LYONS 54

TITLE- DIFFUSION COEFFICIENTS FOR AQUEOUS SOLUTIONS
OF CALCIUM CHLORIDE AND CESIUM CHLORIDE AT 25
DEGREES.

AUTHOR- LYONS, P.A.; RILEY, J.F. [YALE UNIV., NEW
HAVEN, CONN. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 76, P.
5216-5220(1954).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; DENSITY;
DIFFUSIVITY; VISCOSITY; OSTWALD VISCOMETER;
PYCNOMETERS; MODERATE CONCENTRATION; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; CALCIUM
CHLORIDES; CESIUM CHLORIDES.

956

TITLE- A MAGNETIC FLOAT METHOD FOR DETERMINING THE
DENSITIES OF SOLUTIONS.

AUTHOR- MACINNES, D.A.; DAYHOFF, M.C.; RAY, B.R.
[ROCKEFELLER INST., NEW YORK, N.Y. (USA).
LABORATORIES FOR MEDICAL RESEARCH].

REFERENCE- REV. SCI. INSTRUM., V. 22 (8), P.
642-646(1951).

DESCRIPTORS- GRAPHS; DENSITY; MEASURING INSTRUMENTS;
MAGNETIC FLOAT METHOD; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; STANDARD PRESSURE;
STANDARD TEMPERATURE; POTASSIUM CHLORIDES.

957

TITLE- THE VARIATION OF COMPRESSIBILITY OF WATER AND
ELECTROLYTIC SOLUTIONS WITH TEMPERATURE.

AUTHOR- MAHAPATRA, P.K.; RAY, B.C. [UTKAL UNIV.,
CUTTACK (INDIA)].

REFERENCE- INDIAN J. PHYS., V. 32, P. 439-442(1958).
REFERENCE. CHEM. ABSTR., V. 53, ABSTR. NO.
3843H.

958

MANUCHAROV 64

TITLE- CONCENTRATION AND TEMPERATURE DEPENDENCE OF
THE SOUND VELOCITY AND COMPRESSIBILITY IN
ELECTROLYTE SOLUTIONS AT VARIOUS HYDROSTATIC
PRESSURES.

AUTHOR- MANUCHAROV, YU.S.;MIKHAILOV, I.G.;SHUTILOV,
V.A.

REFERENCE- VESTN. LENINGR. UNIV., FIZ. KHIM., NO. 3,
P. 65-83(1964). REFERENCE. CHEM. ABSTR., V.
65, ABSTR. NO. 19328G.

959

MARTYNOVA 66

TITLE- CALCIUM CHLORIDE SOLUBILITY IN STEAM AT HIGH
SUPER-CRITICAL PARAMETERS.

AUTHOR- MARTYNOVA, O.I.;SAMOILOV, YU.F.;KURTOVA, I.S.

REFERENCE- IZV. AKAD. NAUK SSSR, ENERG. TRANSP., V.
1966 (5), P. 129-134(1966). REFERENCE. CHEM.
ABSTR., V. 66, ABSTR. NO. 13972F.

960

MIKHAILOV 56

TITLE- THE VELOCITY OF SOUND AND THE COMPRESSIBILITY
OF AQUEOUS SOLUTIONS OF INORGANIC ACIDS. (IN
RUSSIAN).

AUTHOR- MIKHAILOV, I.G.;SHUTILOV, V.A.

REFERENCE- VESTN. LENINGR. UNIV., FIZ. KHIM., NO. 3,
P. 16-28(1956). REFERENCE. CHEM. ABSTR., V.
51, ABSTR. NO. 811C.

961

MIKHAILOV 60

TITLE- SOUND VELOCITY IN AND COMPRESSIBILITY OF,
AQUEOUS SOLUTIONS OF LIOH, NAOH, AND KOH. (IN
RUSSIAN).

AUTHOR- MIKHAILOV, I.G.;FAO-FENG

REFERENCE- VESTN. LENINGR. UNIV., FIZ. KHIM., NO. 3,
P. 22-35(1960). REFERENCE. CHEM. ABSTR., V.
55, ABSTR. NO. 1165G.

962

MIKHAILOV 62

TITLE- THE ADIABATIC COMPRESSIBILITY-TEMPERATURE
RELATIONS OF AQUEOUS SOLUTIONS OF SALTS AT LOW
CONCENTRATIONS. (IN RUSSIAN).

AUTHOR- MIKHAILOV, I.G.;SYRNIKOV, YU.P.

REFERENCE- STOENIE I FIZ. SVGISTVA VESHCHESTVA V
ZHIDKOM SOSTOYANII, MIN. VYSSHEGO I SCEDNEGO
SPETS. OBRAZOV. UKR. SSR. KIEVSK. GOS. UNIV.,
MATERIALY 4-GO (CHETVERTOGO) SOVESHCH.. KIEV,
1962, P. 74-78. REFERENCE. CHEM. ABSTR., V. 58,
ABSTR. NO. 11972H.

963

MIKHAILOV 64

TITLE- NONLINEAR ACCUSTICAL BEHAVIOR OF AQUEOUS
SOLUTIONS OF ELECTROLYTES. (IN RUSSIAN).

AUTHOR- MIKHAILOV, I.G.;SHUTILOV, V.A. (LENINGRAD
STATE UNIV. (USSR)).

REFERENCE- AKUST. ZH., V. 10 (4), P. 450-455(1964).
REFERENCE. CHEM. ABSTR., V. 62, ABSTR. NO.

964

NIKOLAEV 70

TITLE- MIXED SOLUTIONS OF ELECTROLYTES WITHOUT TOTAL
IONS STUDIED BY AN ISOPIESTIC METHOD. SODIUM
CHLORIDE-POTASSIUM IODIDE-WATER, RUBIDIUM
CHLORIDE-POTASSIUM BROMIDE-WATER, AND CESIUM

CHLORIDE-POTASSIUM IODIDE-WATER MIXED
SOLUTIONS. (IN RUSSIAN).

AUTHOR- NIKOLAEV, V.P.;FROLOV, YU.G.

REFERENCE- TR. MOSK KHIM.-TEKHNOL. INST., NO. 67, P.
201-204(1970). REFERENCE. CHEM. ABSTR., V. 75,
ABSTR. NO. 91864X.

965

NICKELS 37
SOLUTIONS/MISC.
SOLUTIONS/VOLUMETRIC

TITLE- ELECTRICAL CONDUCTIVITIES AND VISCOSITIES AT
25 DEGREES OF SOLUTIONS OF POTASSIUM, SODIUM
AND LITHIUM CHLORIDES IN WATER AND IN ONE-TENTH
MOLAR HYDROCHLORIC ACID.

AUTHOR- NICKELS, L.;ALLMAND, A.J. [KING'S COLL.,
LONDON (UK)].

REFERENCE- J. PHYS. CHEM., V. 41, P. 861-872(1937).

DESCRIPTORS- EXPERIMENTAL RESULTS; TABLES; DENSITY;
ELECTRIC CONDUCTIVITY; VISCOSITY; PYCNOMETERS;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; STANDARD TEMPERATURE;
MIXTURES; HYDROCHLORIC ACID; LITHIUM CHLORIDES;
POTASSIUM CHLORIDES; SODIUM CHLORIDES.

966

NICOLAI 51

TITLE- DETERMINATION OF VISCOSITY AND CONDUCTIVITY
IN THE ANALYSIS OF AQUEOUS SOLUTIONS.

AUTHOR- NICOLAI, H.W.;ERNST, W.;WEGKAMP, H.

REFERENCE- CHEM. WEEK, V. 47, P. 88-90(1951).
REFERENCE. CHEM. ABSTR., V. 45, ABSTR. NO.

967

OWEN 49

TITLE- EXTRAPOLATION OF APPARENT MOLAL PROPERTIES OF
STRONG ELECTROLYTES.

AUTHOR- OWEN, B.B.;BRINKLEY, S.R.

REFERENCE- ANN. N. Y. ACAD. SCI., V. 51, P.
753-764(1949). REFERENCE. CHEM. ABSTR., V. 43,
ABSTR. NO. 72981.

968

PEINELT 65

TITLE- EXPERIMENTAL DETERMINATION OF PHYSIOCHEMICAL
CONSTANTS IN THE QUINARY SYSTEM OF OCEAN SALTS.
(IN GERMAN).

AUTHOR- PEINELT, K.H.;JOHL, W.

REFERENCE- INT. KALISYMP. VORTR. 3RD, V. 4, P.
448-458(1965). REFERENCE. CHEM. ABSTR., V. 72,
ABSTR. NO. 6640S.

969

PERMAN 29

TITLE- THE COMPRESSIBILITY OF AQUEOUS SOLUTIONS.

AUTHOR- PERMAN, E.P.;URRY, W.D.

REFERENCE- PROC. R. SOC. LONDON, SER. A, V. A126, P.
44-78(1929). REFERENCE. CHEM. ABSTR., V. 24,
ABSTR. NO. 1270.

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PESCE 32
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- ON THE CONCENTRATION DEPENDENCE OF EQUIVALENT
REFRACTION OF STRONG ELECTROLYTES IN SOLUTION.
(IN GERMAN).

AUTHOR- PESCE, G. [MUENCHEN UNIV. (F.R. GERMANY).
PHYSIKALISCH-CHEMISCHES INST.].

REFERENCE- Z. PHYS. CHEM., ABT. A, V. A160, P.
295-300(1932).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;

DENSITY; REFRACTIVE INDEX; HIGH CONCENTRATION;
STANDARD PRESSURE; STANDARD TEMPERATURE;
CALCIUM CHLORIDES; SODIUM CARBONATES; STRONTIUM
CHLORIDES.

971

RANADE 38

TITLE- THE VISCOSITIES OF AQUEOUS SOLUTIONS OF
STRONG ELECTROLYTES.

AUTHOR- RANADE, J.D.;PARANJPE, G.R.

REFERENCE- J. UNIV. BOMBAY, V. 7 (3), P.
41-59(1938). REFERENCE. CHEM. ABSTR., V. 33,
ABSTR. NO. 4494(6).

972

RANDALL 27
SOLUTIONS/THERMODYNAMICS

TITLE- THE PARTIAL HEAT CAPACITY OF THE CONSTITUENTS
AND THE SPECIFIC HEAT OF AQUEOUS SOLUTIONS OF
SODIUM AND HYDROGEN CHLORIDES.

AUTHOR- RANDALL, M.;RAMAGE, W.D. [CALIFORNIA UNIV.,
BERKELEY (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 49, P.
93-100(1927).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; PARTIAL MOLAL
SPECIFIC HEAT; SPECIFIC HEAT; MODERATE
CONCENTRATION; ELEVATED CONCENTRATION; STANDARD
PRESSURE; STANDARD TEMPERATURE; HYDROCHLORIC
ACID; SODIUM CHLORIDES.

973

ROBINSON 59

TITLE- ELECTROLYTE SOLUTIONS.

AUTHOR- ROBINSON, R.A.;STOKES, R.H.

REFERENCE- ELECTROLYTE SOLUTIONS. ACADEMIC PRESS.,
NEW YORK, 1959, 572 P.. REFERENCE. CHEM.

974

ROSSINI 31

TITLE- APPARENT AND PARTIAL MOLAL HEAT CAPACITIES IN
AQUEOUS SOLUTIONS OF 19 UNI-UNIVALENT STRONG
ELECTROLYTES.

AUTHOR- ROSSINI, F.D.

REFERENCE- J. RES. NATL. BUR. STAND., V. 7, P.
47-55(1931). REFERENCE. CHEM. ABSTR., V. 25,
ABSTR. NO. 4774.

975

RUTSKOV 60

TITLE- RATIONAL METHODS FOR STUDYING THE HEAT
CAPACITIES OF AQUEOUS ELECTROLYTE SOLUTIONS.

AUTHOR- RUTSKOV, A.P.

REFERENCE- RUSS. J. PHYS. CHEM., V. 34 (4), P.
347-351(1960).

976

SAKIADIS 52

TITLE- A LITERATURE SURVEY OF THE THERMAL
CONDUCTIVITY OF LIQUIDS.

AUTHOR- SAKIADIS, B.C.; COATES, J.

REFERENCE- A LITERATURE SURVEY OF THE THERMAL
CONDUCTIVITY OF LIQUIDS. NO. 34, LA STATE
UNIV. ENGG. EXP. STA. BUL., 1952, 70 P..
REFERENCE. CHEM. ABSTR., V. 48, ABSTR. NO.

977

SALCEANU 63

TITLE- SPEED OF SOUND IN EQUIMOLECULAR AQUEOUS SOLUTIONS AND IN SOME ORGANIC LIQUIDS. (IN FRENCH).

AUTHOR- SALCEANU, C. [TIMISOARA UNIV. (ROMANIA)].

REFERENCE- C. R. ACAD. SCI., V. 257 (9), P. 1595-1598(1963). REFERENCE. CHEM. ABSTR., V. 59, ABSTR. NO. 14602E.

978

SAMOYLOVICH 33

TITLE- THE SPECIFIC HEAT OF AQUEOUS SOLUTIONS OF STRONG ELECTROLYTES.

AUTHOR- SAMOYLOVICH, A.G.

REFERENCE- PHYS. Z. SOWJETUNION, V. 4, P. 843-853(1933). REFERENCE. CHEM. ABSTR., V. 28, ABSTR. NO. 2985.

979

SATOH 61
SOLUTIONS/MISC.

TITLE- THE VISCOSITY OF CONCENTRATED AQUEOUS SOLUTIONS OF STRONG ELECTROLYTES.

AUTHOR- SATOH, T.; HAYASHI, K. [DEFENSE ACADEMY OBARADAI, YOKOSUKA (JAPAN). DEPT. OF PHYSICS].

REFERENCE- BULL. CHEM. SOC. JPN., V. 34 (9), P. 1260-1264(1961).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; VISCOSITY; OSTWALD VISCOMETER; ELEVATED CONCENTRATION; HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD TEMPERATURE; MODERATE TEMPERATURE; CESIUM CHLORIDES; LITHIUM BROMIDES; LITHIUM CHLORIDES; POTASSIUM BROMIDES; POTASSIUM FLUORIDES; POTASSIUM IODIDES; SODIUM BROMIDES; SODIUM IODIDES.

980

SERGEEVICH 60

TITLE- THE VISCOSITY AND DENSITY OF FORMATION WATERS
AND BINARY SOLUTIONS OF ELECTROLYTES AT VARIOUS
TEMPERATURES AND PRESSURES. (IN RUSSIAN).

AUTHOR- SERGEEVICH, V.I.;ZHUZE, T.P.

REFERENCE- TR. INST. GEOL. RAZRAB. GORYUCH. ISKOP.
AKAD. NAUK SSSR, V. 2, P. 104-112(1960).
REFERENCE. CHEM. ABSTR., V. 57, ABSTR. NO.
16214G.

981

SHEDLOVSKY 34
SOLUTIONS/VOLUMETRIC
SOLUTIONS/MISC.

TITLE- THE ELECTROLYTIC CONDUCTIVITY OF ALKALINE
EARTH CHLORIDES IN WATER AT 25 DEGREES.

AUTHOR- SHEDLOVSKY, T.;BROWN, A.S. [ROCKEFELLER
INST., NEW YORK, N.Y. (USA). LABORATORIES FOR
MEDICAL RESEARCH].

REFERENCE- J. AM. CHEM. SOC., V. 56, P.
1066-1071(1934).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; DENSITY; ELECTRIC
CONDUCTIVITY; PYCNOMETERS; LOW CONCENTRATION;
MODERATE CONCENTRATION; ELEVATED CONCENTRATION;
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CHLORIDES; CALCIUM CHLORIDES; MAGNESIUM
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SMITH 39
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TITLE- THE BOILING POINT ELEVATION. II. SODIUM
CHLORIDE 0.05 TO 1.0 M AND 60 TO 100 DEGREES.

AUTHOR- SMITH, R.P. [YALE UNIV., NEW HAVEN, CONN.
(USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 61, P.
500-503(1939).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
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MODERATE CONCENTRATION; ELEVATED CONCENTRATION;

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SMITH 39B
SOLUTIONS/THERMODYNAMICS

TITLE- THE BOILING POINT ELEVATION. III. SODIUM
CHLORIDE 1.0 TO 4.0 M AND 60 TO 100 DEGREES.

AUTHOR- SMITH, R.P.; HIRTLE, D.S. [YALE UNIV., NEW
HAVEN, CONN. (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. AM. CHEM. SOC., V. 61, P.
1123-1126(1939).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT;
PARTIAL MOLAL SPECIFIC HEAT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; STANDARD TEMPERATURE; MODERATE
TEMPERATURE.

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STAKHANOVA 64
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SOLUTIONS/THERMODYNAMICS

TITLE- A COMPARATIVE STUDY OF THE SPECIFIC HEATS AND
DENSITIES OF AQUEOUS ELECTROLYTE SOLUTIONS.

AUTHOR- STAKHANOVA, M.S.; KARAPET'YANTS,
M.KH.; VASIL'EV, V.A.; EPIKHIN, YU.A. [MENDELEEV
MOSCOW INSTITUTE OF CHEMICAL TECHNOLOGY (USSR)].

REFERENCE- RUSS. J. PHYS. CHEM., V. 38 (10), P.
1306-1310(1964).

DESCRIPTORS- REVIEWS; EMPIRICAL EQUATIONS; GRAPHS;
TABLES; DENSITY; PARTIAL MOLAL VOLUME; PARTIAL
MOLAL SPECIFIC HEAT; SPECIFIC HEAT; ELEVATED
CONCENTRATION; HIGH CONCENTRATION; STANDARD
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LITHIUM CHLORIDES; POTASSIUM CHLORIDES; SODIUM
CHLORIDES.

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SUBRAHMANYAM 60

TITLE- ADIABATIC COMPRESSIBILITIES OF ELECTROLYTIC SOLUTIONS.

AUTHOR- SUBRAHMANYAM, S.V. [SRI VENKATESWARA UNIV., TIRUPATI (INDIA)].

REFERENCE- J. SCI. IND. RES., SECT. C, V. 19B, P. 333-336(1960). REFERENCE. CHEM. ABSTR., V. 55, ABSTR. NO. 17183E.

986

SURYANARAYANA 56
SOLUTIONS/MISC.

TITLE- THE VISCOSITY OF CONCENTRATED AQUEOUS SOLUTIONS OF SODIUM CHLORIDE.

AUTHOR- SURYANARAYANA, C.V.; VENKATESAN, V.K. [ANNAMALAI UNIV., ANNAMALAINAGAR (INDIA). PHYSICO-CHEMICAL LABORATORY].

REFERENCE- TRANS. FARADAY SOC., V. 54 (11), P. 1709-1711(1956).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL EQUATIONS; GRAPHS; TABLES; VISCOSITY; OSTWALD VISCOMETER; HIGH CONCENTRATION; SATURATED VAPOR; MODERATE TEMPERATURE; SODIUM CHLORIDES.

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SURYANARAYANA 56B
SOLUTIONS/MISC.

TITLE- CONDUCTANCE OF CONCENTRATED SOLUTIONS OF STRONG ELECTROLYTES.

AUTHOR- SURYANARAYANA, C.V.; VENKATESAN, V.K. [ANNAMALAI UNIV., ANNAMALAINAGAR (INDIA). PHYSICO-CHEMICAL LABORATORY].

REFERENCE- NATURE, V. 178, P. 1461(1956).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL EQUATIONS; GRAPHS; ELECTRIC CONDUCTIVITY; VISCOSITY; HIGH CONCENTRATION; STANDARD PRESSURE; MODERATE TEMPERATURE; POTASSIUM CHLORIDES; POTASSIUM NITRATES; SODIUM CHLORIDES; SODIUM NITRATES.

SURYANARAYANA 58
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TITLE- A NEW VISCOSITY RELATIONSHIP IN HIGHLY
CONCENTRATED AQUEOUS SOLUTIONS OF SILVER
NITRATE AND SODIUM NITRATE.

AUTHOR- SURYANARAYANA, C.V.; VENKATESAN, V.K.
[ANNAMALAI UNIV., ANNAMALAINAGAR (INDIA).
PHYSICO-CHEMICAL LABORATORY].

REFERENCE- ACTA CHIM. ACAD. SCI. HUNG., V. 16, P.
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DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; VISCOSITY; OSTWALD
VISCOMETER; HIGH CONCENTRATION; STANDARD
PRESSURE; MODERATE TEMPERATURE; SILVER
NITRATES; SODIUM NITRATES.

SZALAY 34

TITLE- THE COMPRESSIBILITY OF DILUTE ELECTROLYTE
SOLUTIONS.

AUTHOR- SZALAY, A.

REFERENCE- Z. PHYS., V. 35, P. 639-643(1934).
REFERENCE. CHEM. ABSTR., V. 28, ABSTR. NO.
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THOMAS 34

TITLE- THE COMPRESSIBILITY OF AQUEOUS SOLUTIONS II.

AUTHOR- THOMAS, W.G.; PERMAN, E.P.

REFERENCE- PROC. R. SOC. LONDON, SER. A, V. A146, P.
640-650(1934). REFERENCE. CHEM. ABSTR., V. 29,
ABSTR. NO. 399(9).

TIKHOMIROVA 57

TITLE- APPLICATION OF METHODS OF PHYSICAL CHEMICAL ANALYSIS IN ANALYTICAL CHEMISTRY. (IN RUSSIAN).

AUTHOR- TIKHOMIROVA, N.N.

REFERENCE- SB. NAUCHN. RAB., LENINGRAD INST., SOVET. TORGOVLI, V. 1957 (11), P. 134-142(1957).
REFERENCE. CHEM. ABSTR., V. 54, ABSTR. NO. 13948A.

992

UKIHASHI 59

TITLE- PHYSICOCHEMICAL PROPERTIES OF SODIUM SILICATE AQUEOUS SOLUTIONS. VII. THE DEPENDENCE OF DENSITY AND VISCOSITY ON THE COMPOSITION OF SODIUM SILICATE SOLUTION, AND ITS RELATION TO THE MOLECULAR BEHAVIOR IN THE SOLUTION. (IN JAPANESE WITH ENGLISH ABSTRACT).

AUTHOR- UKIHASHI, H. [ASAHI GLASS CO. LTD., YOKOHAMA (JAPAN)].

REFERENCE- ASAHI GARASU KENKYU HOKOKU, V. 9, P. 137-161(1959). REFERENCE. CHEM. ABSTR., V. 54, ABSTR. NO. 16113F.

993

VARGAFTIK 57

TITLE- HEAT CONDUCTIVITY OF THE AQUEOUS SOLUTIONS OF SALTS, ACIDS, AND ALKALIES.

AUTHOR- VARGAFTIK, N.B.; OS' MININ, YU.P.

REFERENCE- TEPLDENERGETIKA, V. 3 (7), P. 11-16(1956). REFERENCE. CHEM. ABSTR., V. 53, ABSTR. NO. 12816F.

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VOLZ-FLADRICH 62

TITLE- PHYSICAL-CHEMICAL EXAMINATION ON THE SYSTEM

MGCL₂-HCL-H₂O, NA₂CL-HCL-H₂O, AND KCL-HCL-H₂O.

AUTHOR- VOLZ-FLADRICH, H.

REFERENCE- FREIBERG. FORSCHUNGSH., V. 134, P.
1-85(1962). REFERENCE. TID-3354-R1, ABSTR. NO.
4852.

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WAGMAN 65

TITLE- SELECTED VALUES OF CHEMICAL THERMODYNAMIC
PROPERTIES, PART 2.

AUTHOR- WAGMAN, D.D.;EVANS, W.H.;HALCOW, I.;PARKER,
V.B.;BAILEY, S.M.;SCHUMM, R.H.

REFERENCE- SELECTED VALUES OF CHEMICAL THERMODYNAMIC
PROPERTIES, PART 2. TECH. NOTE 270-1, NATL.
BUR. STANDARDS, 1965,

996

WESTRUM 65

TITLE- THERMODYNAMICS AND THERMOCHEMISTRY, 8.

AUTHOR- WESTRUM, E.F. (ED.)

REFERENCE- THERMODYNAMICS AND THERMOCHEMISTRY, 8.
U.S. GOVT. PRINTING OFFICE, WASHINGTON, D.C.,
1965, 297 P.. REFERENCE. CHEM. ABSTR., V. 63,
ABSTR. NO. 14150A.

997

WHITE 40
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TITLE- THE SPECIFIC HEATS OF SOME AQUEOUS SODIUM AND
POTASSIUM CHLORIDE SOLUTIONS AT SEVERAL
TEMPERATURES.

AUTHOR- WHITE, C.M. [ROCHESTER UNIV., N.Y. (USA).
DEPT. OF CHEMISTRY].

REFERENCE- J. PHYS. CHEM., V. 44, P. 494-513(1940).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL

EQUATIONS; GRAPHS; TABLES; APPARENT MOLAL
SPECIFIC HEAT; PARTIAL MOLAL ENTHALPY; SPECIFIC
HEAT; MODERATE CONCENTRATION; ELEVATED
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YOUNG 36
SOLUTIONS/THERMODYNAMICS

TITLE- HEAT CONTENT AND HEAT CAPACITY OF AQUEOUS
SODIUM CHLORIDE SOLUTIONS.

AUTHOR- YOUNG, T.F.; MACHIN, J.S. [CHICAGO UNIV.,
ILL. (USA). GEORGE HERBERT JONES LAB.].

REFERENCE- J. AM. CHEM. SOC., V. 58, P.
2254-2260(1936).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; DILUTION HEAT;
SPECIFIC HEAT; ELEVATED CONCENTRATION; HIGH
CONCENTRATION; STANDARD PRESSURE; LOW
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TITLE- THERMODYNAMICS OF MULTICOMPONENT ELECTROLYTE
SOLUTIONS/AQUEOUS MIXTURES OF TWO SALTS FROM
AMONG NaCl, KCl, NaH_2PO_4 , AND KH_2PO_4 AT 25
DEGREES.

AUTHOR- CHILDS, C.W. [DEPARTMENT OF SCIENTIFIC AND
INDUSTRIAL RESEARCH, LOWER HUTT (NEW ZEALAND).
SOIL BUREAU].

DOWNES, C.J. [CENTRE FOR INLAND WATERS,
BURLINGTON, ONTARIO (CANADA)].

PLATFORD, R.F. [COMMONWEALTH SCIENTIFIC AND
INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA
(AUSTRALIA). DIVISION OF MINERALOGY; CENTRE FOR
INLAND WATERS, BURLINGTON, ONTARIO (CANADA)].

REFERENCE- J. SOLUTION CHEM., V. 3 (2), P.
139-147(1974).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL

EQUATIONS; TABLES; OSMOTIC COEFFICIENT;
ISOPIESTIC MEASUREMENT; ELEVATED CONCENTRATION;
HIGH CONCENTRATION; STANDARD PRESSURE; STANDARD
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NICKELS 36
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TITLE- HITTORF TRANSFERENCE NUMBERS OF SOLUTIONS OF
POTASSIUM, SODIUM, AND LITHIUM CHLORIDES IN
WATER AND IN ONE-TENTH MOLAR HYDROCHLORIC ACID.

AUTHOR- NICKELS, L.; ALLMAND, A. J. [KING'S COLL.,
LONDON (UK)].

REFERENCE- J. PHYS. CHEM., V. 41 (6), P.
873-886(1936).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
TRANSFERENCE NUMBER; MODERATE CONCENTRATION;
ELEVATED CONCENTRATION; HIGH CONCENTRATION; LOW
TEMPERATURE; MIXTURES; HYDROCHLORIC ACID;
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LEUNG 75
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TITLE- THE ENTHALPY OF DILUTION OF SOME 1-1 AND 2-1
ELECTROLYTES IN AQUEOUS SOLUTION.

AUTHOR- LEUNG, W. H.; MILLER, F. J. [MIAMI UNIV., FLA.
(USA). ROSENSTIEL SCHOOL OF MARINE AND
ATMOSPHERIC SCIENCES].

REFERENCE- J. CHEM. THERMODYN., NO. 7, P.
1067-1078(1975).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; GRAPHS; TABLES; DILUTION HEAT;
ELEVATED CONCENTRATION; HIGH CONCENTRATION;
STANDARD PRESSURE; MODERATE TEMPERATURE;
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TITLE- THERMODYNAMICS OF THE SYSTEM
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OF NACL AT 25 DEGREES.

AUTHOR- PLATFORD, R.F. [CENTRE FOR INLAND WATERS,
BURLINGTON, ONTARIO (CANADA)].

REFERENCE- J. SOLUTION CHEM., V. 3 (10), P.
771-780(1974).

DESCRIPTORS- EXPERIMENTAL RESULTS; GRAPHS; TABLES;
SOLUBILITY; OSMOTIC COEFFICIENT; ISOPIESTIC
MEASUREMENT; ELEVATED CONCENTRATION; HIGH
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BROADWATER 74
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TITLE- THE CONDUCTANCE OF DIVALENT IONS IN H₂O AT 10
AND 25 DEGREES AND IN D₂O.

AUTHOR- BROADWATER, T.L. [HOWARD UNIV., WASHINGTON,
D.C. (USA). DEPT. OF CHEMISTRY].

EVANS, D.F. [CASE WESTERN RESERVE UNIV.,
CLEVELAND, OHIO (USA). DEPT. OF CHEMISTRY].

REFERENCE- J. SOLUTION CHEM., V. 3 (10), P.
757-769(1974).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
EQUATIONS; TABLES; ELECTRIC CONDUCTIVITY; LOW
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TITLE- FREEZING POINTS AND RELATED PROPERTIES OF
ELECTROLYTE SOLUTIONS. II. MIXTURES OF LITHIUM
CHLORIDE AND SODIUM CHLORIDE IN WATER.

AUTHOR- GIBBARD, H.F.;FAWAZ, A. [SOUTHERN ILLINOIS
UNIV., CARBONDALE (USA). DEPT. OF CHEMISTRY AND
BIOCHEMISTRY].

REFERENCE- J. SOLUTION CHEM., V. 3 (10), P.
745-755(1974).

DESCRIPTORS- EXPERIMENTAL RESULTS; EMPIRICAL
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ACTIVITY COEFFICIENT; OSMOTIC COEFFICIENT;
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716,	728,	749,	750,	783,	821,	823,	834,
851,	855,	861,	863,	864,	871,	892,	897,
933,	982,	983,	999,	1002,	1004		

PARTIAL MOLAL SPECIFIC HEAT

	48,	49,	72,	73,	91,	108,	153,
157,	199,	211,	230,	322,	515,	544,	616,
638,	827,	835,	864,	972,	983,	984	

PARTIAL MOLAL VOLUME

	2,	3,	5,	13,	14,	18,	33,
38,	42,	43,	45,	46,	51,	55,	56,
57,	67,	68,	69,	70,	71,	89,	92,
99,	113,	118,	121,	140,	142,	143,	146,
148,	149,	156,	186,	187,	191,	230,	233,
244,	245,	253,	300,	477,	617,	760,	775,
776,	777,	779,	788,	804,	817,	862,	886,
889,	895,	910,	911,	984			

POTASSIUM CHLORIDES

	8,	9,	10,	14,	15,	16,	17,
24,	25,	27,	29,	31,	32,	33,	34,
35,	36,	37,	38,	40,	42,	44,	45,
47,	49,	50,	51,	53,	54,	55,	57,
60,	61,	65,	67,	75,	76,	77,	78,
79,	80,	81,	83,	84,	85,	88,	93,
94,	96,	99,	100,	107,	110,	111,	114,

118,	120,	123,	124,	125,	128,	129,	131,
132,	134,	136,	141,	142,	143,	145,	148,
149,	150,	151,	153,	155,	161,	162,	163,
165,	166,	167,	168,	172,	179,	180,	181,
184,	188,	189,	192,	196,	197,	199,	200,
201,	202,	203,	204,	205,	206,	207,	212,
214,	221,	222,	231,	234,	243,	244,	246,
250,	253,	258,	269,	274,	275,	276,	279,
283,	300,	301,	307,	309,	310,	311,	313,
318,	320,	321,	329,	343,	347,	349,	358,
362,	363,	369,	370,	374,	384,	392,	400,
412,	413,	419,	422,	427,	449,	453,	455,
459,	461,	462,	467,	471,	472,	476,	484,
491,	494,	497,	498,	501,	502,	505,	506,
508,	510,	512,	514,	517,	520,	521,	522,
524,	525,	526,	527,	528,	529,	536,	537,
538,	540,	541,	542,	543,	544,	545,	547,
548,	549,	552,	554,	556,	561,	562,	563,
565,	566,	569,	570,	571,	572,	573,	577,
579,	580,	581,	583,	584,	585,	589,	590,
592,	593,	595,	601,	603,	604,	605,	609,
610,	611,	613,	614,	615,	616,	621,	625,
627,	628,	631,	633,	635,	636,	637,	638,
639,	640,	641,	642,	645,	646,	648,	650,
653,	656,	657,	658,	661,	662,	663,	665,
666,	670,	672,	674,	675,	676,	680,	681,
688,	689,	690,	693,	694,	696,	697,	698,
700,	701,	702,	704,	705,	708,	711,	712,
714,	716,	717,	719,	721,	722,	724,	727,
728,	729,	730,	731,	733,	734,	735,	736,
737,	738,	739,	740,	741,	743,	745,	746,
749,	750,	751,	754,	761,	762,	763,	764,
769,	773,	781,	783,	785,	786,	792,	793,
794,	796,	798,	799,	804,	806,	809,	812,
813,	814,	815,	817,	818,	821,	824,	825,
834,	844,	849,	850,	855,	857,	861,	865,
866,	867,	868,	871,	876,	877,	879,	884,
886,	890,	891,	895,	899,	901,	902,	903,
907,	908,	910,	911,	917,	921,	935,	938,
939,	943,	945,	953,	956,	965,	984,	987,
997,	999,	1000					

REFRACTIVE INDEX

168, 239, 645, 681, 970

SEA WATER

	30,	57,	63,	75,	76,	78,	92,
119,	152,	193,	217,	218,	230,	246,	268,
341,	364,	389,	398,	515,	516,	780,	785,
792,	793,	794,	795,	863,	867,	872,	880,
885,	893,	897					

SODIUM CHLORIDES

	1,	3,	5,	8,	9,	13,	16,
18,	22,	23,	25,	27,	29,	30,	31,
32,	34,	35,	36,	37,	38,	39,	41,
42,	43,	44,	45,	47,	48,	49,	50,
51,	53,	56,	57,	60,	61,	62,	64,
65,	66,	67,	72,	73,	75,	76,	77,
78,	79,	81,	82,	83,	85,	87,	88,
89,	91,	93,	94,	95,	96,	99,	100,
101,	106,	110,	111,	112,	114,	116,	117,

120,	123,	124,	127,	128,	129,	132,	136,
138,	140,	141,	142,	144,	145,	148,	149,
150,	151,	152,	153,	154,	155,	158,	159,
161,	162,	163,	165,	167,	168,	169,	172,
175,	179,	180,	184,	188,	189,	191,	192,
193,	195,	197,	198,	200,	201,	202,	203,
205,	206,	207,	208,	210,	211,	213,	214,
217,	218,	219,	225,	227,	230,	231,	232,
233,	234,	235,	236,	239,	241,	243,	245,
246,	247,	248,	250,	253,	257,	271,	274,
276,	279,	283,	286,	296,	300,	301,	307,
309,	310,	311,	316,	320,	321,	322,	329,
341,	349,	354,	357,	363,	365,	366,	369,
370,	374,	380,	383,	384,	389,	391,	392,
398,	400,	406,	412,	413,	418,	419,	427,
430,	436,	439,	442,	448,	449,	450,	453,
455,	456,	459,	461,	462,	471,	472,	475,
476,	484,	489,	490,	491,	492,	494,	495,
498,	501,	502,	504,	505,	506,	507,	508,
509,	510,	511,	512,	514,	515,	518,	519,
520,	522,	523,	524,	525,	530,	531,	532,
533,	536,	537,	539,	541,	542,	545,	546,
547,	548,	550,	551,	552,	554,	555,	556,
558,	559,	560,	562,	563,	564,	566,	567,
568,	570,	572,	578,	579,	582,	584,	585,
587,	588,	589,	590,	592,	595,	596,	598,
600,	601,	602,	603,	606,	607,	609,	610,
611,	614,	616,	619,	621,	622,	624,	625,
629,	633,	634,	635,	636,	637,	638,	643,
644,	645,	646,	648,	649,	651,	652,	653,
655,	656,	657,	660,	661,	664,	665,	666,
667,	670,	673,	674,	675,	676,	678,	679,
681,	682,	683,	684,	687,	688,	689,	691,
692,	694,	695,	696,	697,	699,	700,	701,
706,	707,	708,	709,	710,	711,	712,	714,
715,	716,	720,	721,	722,	723,	726,	728,
729,	730,	731,	732,	733,	734,	735,	736,
737,	738,	739,	740,	742,	743,	744,	746,
749,	750,	751,	754,	761,	767,	772,	773,
776,	778,	779,	783,	785,	786,	787,	788,
792,	796,	797,	798,	800,	808,	809,	810,
811,	812,	813,	814,	815,	818,	819,	821,
823,	824,	825,	834,	840,	850,	854,	855,
857,	861,	862,	863,	864,	865,	866,	867,
868,	870,	875,	878,	882,	883,	884,	886,
887,	891,	897,	901,	902,	903,	907,	908,
911,	917,	922,	929,	931,	933,	935,	936,
938,	939,	945,	953,	965,	972,	982,	984,
986,	987,	997,	998,	999,	1000,	1002,	1004

SOLUBILITY

	1,	2,	3,	32,	39,	44,	65,
66,	71,	89,	133,	134,	135,	139,	179,
186,	200,	210,	213,	216,	218,	220,	232,
240,	242,	251,	252,	258,	268,	288,	320,
383,	384,	389,	449,	493,	495,	501,	600,
614,	637,	643,	644,	650,	675,	681,	686,
688,	698,	704,	705,	710,	712,	719,	731,
736,	752,	753,	755,	756,	757,	758,	759,
771,	784,	787,	802,	803,	826,	827,	828,
829,	830,	831,	832,	833,	835,	836,	838,
841,	842,	845,	847,	853,	864,	875,	878,

892, 896, 901, 921, 1002

SOLUTION HEAT

48, 91, 124, 153, 200, 211, 216,
271, 301, 561, 562, 577, 587, 609, 674,
708, 717, 741, 802, 835, 853, 864, 877,
879, 882, 900

SPECIFIC HEAT

30, 48, 67, 72, 73, 91, 92,
121, 122, 152, 153, 157, 211, 214, 222,
232, 251, 252, 271, 358, 362, 398, 450,
465, 515, 516, 539, 553, 593, 594, 616,
691, 700, 710, 718, 721, 733, 752, 757,
758, 762, 763, 766, 769, 787, 790, 804,
860, 872, 936, 938, 972, 984, 997, 998

SURFACE TENSION

152, 232, 513, 555, 567, 602, 710,
798, 928

THERMAL CONDUCTIVITY

77, 78, 80, 152, 193, 232, 295,
456, 541, 549, 550, 710, 790, 857, 865,
866, 867, 868, 870

THERMAL DIFFUSION

193, 294, 295, 491, 518, 520, 548,
710, 883

THERMAL DIFFUSIVITY

152

THERMAL EXPANSIVITY

42, 63, 85, 97, 101, 105, 112,
121, 122, 142, 143, 152, 166, 240, 250,
366, 773, 774, 776, 780, 797, 807, 815,
902

TRANSFERENCE NUMBER

34, 35, 36, 49, 239, 406, 538,
539, 558, 592, 628, 641, 696, 697, 806,
861, 886, 890, 1000

VAPOR PRESSURE

16, 22, 47, 65, 76, 78, 92,
104, 117, 119, 124, 127, 152, 156, 213,
217, 218, 219, 230, 232, 233, 240, 309,
310, 311, 322, 391, 414, 461, 462, 546,
547, 580, 586, 601, 608, 624, 649, 677,
710, 711, 789, 790, 791, 808, 809, 810,
821, 823, 860, 863, 864, 875, 881, 888,
907, 933

VAPOR SOLUBILITY

449, 493

VAPORIZATION HEAT

22, 232, 286, 312, 462, 810

VELOCITY OF SOUND

25, 83, 141, 150, 151, 154, 155,

203, 204, 283, 392, 412, 534, 566, 811,
814, 825, 891, 908, 931, 945, 946

VISCOSITY

34, 36, 53, 65, 76, 77, 78,
79, 90, 106, 125, 142, 145, 152, 167,
193, 208, 209, 232, 240, 257, 289, 313,
327, 341, 342, 363, 369, 413, 440, 472,
498, 554, 557, 560, 565, 588, 607, 621,
626, 628, 646, 656, 657, 680, 710, 719,
734, 739, 740, 789, 790, 792, 793, 796,
799, 800, 801, 805, 812, 860, 867, 880,
893, 905, 922, 928, 934, 943, 955, 965,
979, 986, 987, 988