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A COMPREHENSIVE REPORT ON NINETEEN CONDENSATION NUCLEI

(Part I - Equilibrium Growth and Physical Properties)

By

Richard D. H. Low

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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DA Task 1T061102B53A-20

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ABSTRACT

The theoretical study of condensation nuclei has been hampered by the fact that one must know the van't Hoff i-factors for a particular nucleus at different concentrations; as a result, only sodium chloride has been studied extensively. In this report, a generalized expression for the solution effect on droplet growth is used, thus simplifying the study of the growth behaviors of a large number of promising condensation nuclei under equilibrium conditions. Tables are compiled to present their equilibrium growths and their physical properties, and a few graphs comparing these properties are included to illustrate how the data in these tables may be used. It is believed that the information presented herein will facilitate an intelligent selection of the proper artificial nuclei for the modification of warm fogs and clouds, when combined with adequate measurements of the pertinent environmental parameters.

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INTRODUCTION

Several methods are available to modify warm fogs and clouds (Jiusto, 1964), among which the utilization of artificial condensation nuclei appears to be rather promising. These nuclei, in a way not unlike the silver iodide particles which have proved so successful as seeding agents for the supercooled fogs and clouds, can be delivered with ease and economy and may lead to acceleration of the natural mechanisms of precipitation or dissipation. Calcium and sodium chlorides (Houghton and Radford, 1938; Kocmond et al., 1968) have been tested in field experiments; however, only the latter has been investigated theoretically. It would, therefore, be of interest to carry out a study of the equilibrium growth behaviors and other properties of condensation nuclei other than sodium chloride. In this way, an intelligent selection of the proper seeding materials would be possible, when used in conjunction with adequate measurements of the pertinent environmental parameters.

This report brings together for the first time information on nineteen salts or, more properly, electrolytes. It would have been possible to include all the weak and strong electrolytes in this comprehensive study, had it not been for the fact that experimental data on surface tension and density are lacking in the chemical literature for the proper temperature and pressure ranges. All of the electrolytes possess the desirable property of the lowering of vapor pressure; they are thus hygroscopic in varying degrees.

Included in this report are comparative examples to illustrate how these data may be used, and a proposed definition of hygroscopicity is presented. In a subsequent report, the stationary growth rates of these electrolytic nuclei will be studied.

COMPUTATIONS

Computations were made of the equilibrium radii, the saturation ratios, the amounts of condensed water, the van't Hoff factors, the water activities, and other physical properties of each condensation nucleus, varying in mass from 10^{-16} to 10^{-6} grams. It is believed that this range of mass is of prime interest to a cloud physicist. Following is a list of the equations used in the computations:

Size of a particle of given mass

$$r_d = (3m_2/4\pi\rho)^{1/3} , \qquad (1)$$

where r_d is the radius of a dry nucleus, assumed spherical; m_2 its mass; and ρ its density.

The Stokes' law for terminal velocity

$$u = 2g\ \rho r_d^2/9\eta , \qquad (2)$$

where u is the terminal velocity of the nucleus in calm air; g gravitational acceleration; ρ and r_d as defined before; and η the dynamic viscosity of air.

Radius as a function of concentration

$$r = [m_2(1000 + mW_2)/4.1888\ \rho' mW_2]^{1/3} , \qquad (3)$$

where r is the radius of a solution droplet; m_2 as defined before; m molality; W_2 the molecular weight of the nucleus; and ρ' the density of the solution droplet as a function of molality.

Condensed water as a function of droplet size

$$A = 4.1888\ \rho' r^3 - m_2 , \qquad (4)$$

where A is the amount of condensed water, and other symbols are as defined before.

Equilibrium saturation ratios

$$p_r/p_o = \exp[2M\sigma'/\rho' RTr - \nu wm(1 + \gamma(m)/m)] , \qquad (5)$$

where p_r is the equilibrium vapor pressure over a spherical solution droplet; p_o the equilibrium vapor pressure over the plane surface of

pure water; M' the molecular weight of water; σ' the surface tension of the solution droplet; ρ' its density; r its radius; R the universal gas constant; T absolute temperature; ν the total number of moles of ions in one mole of electrolyte; w = 1000/18.016; m the molality; and $\gamma(m) = \int_1^{\gamma} m d(\ln\gamma)$.

Water activity

$$a = p/p_o = \exp[-\nu w m(1 + \gamma(m)/m)] , \qquad (6)$$

where a is the water activity; p the equilibrium vapor pressure over the flat surface of electrolytic solution at a given concentration; and other symbols are as defined before.

The van't Hoff factor

$$i = 55.51(1 - a)/am , \qquad (7)$$

where all symbols in this equation have already been defined.

All these equations are expressed in c.g.s. units. The first four can be readily found in the literature or derived, and the last three are newly derived. A detailed discussion thereof was given by Low (1969). The densities and surface tensions of a solution in different concentrations are necessary to solve Equation (5). Such data are available for only nineteen electrolytes (Lange, 1961), and they do not cover the entire spectrum of concentration; however, they do not deviate appreciably from a linear relationship with concentrations as can be seen in Figures 1 and 2. Linear interpolation of the ionic activity coefficient was carried out down to sufficient dilution so as to insure that the well-known "Köhler curve" will extend well beyond the critical radius. The approximation in Figure 3 appears reasonable.

The computations were generally quite straightforward. Nevertheless, it should be mentioned that the deliquescent phase of a nucleus has been neglected; therefore, a nucleus begins growth from a saturated or subsaturated (only in a few cases) solution droplet. This was determined from Equation (3) as input to Equation (5).

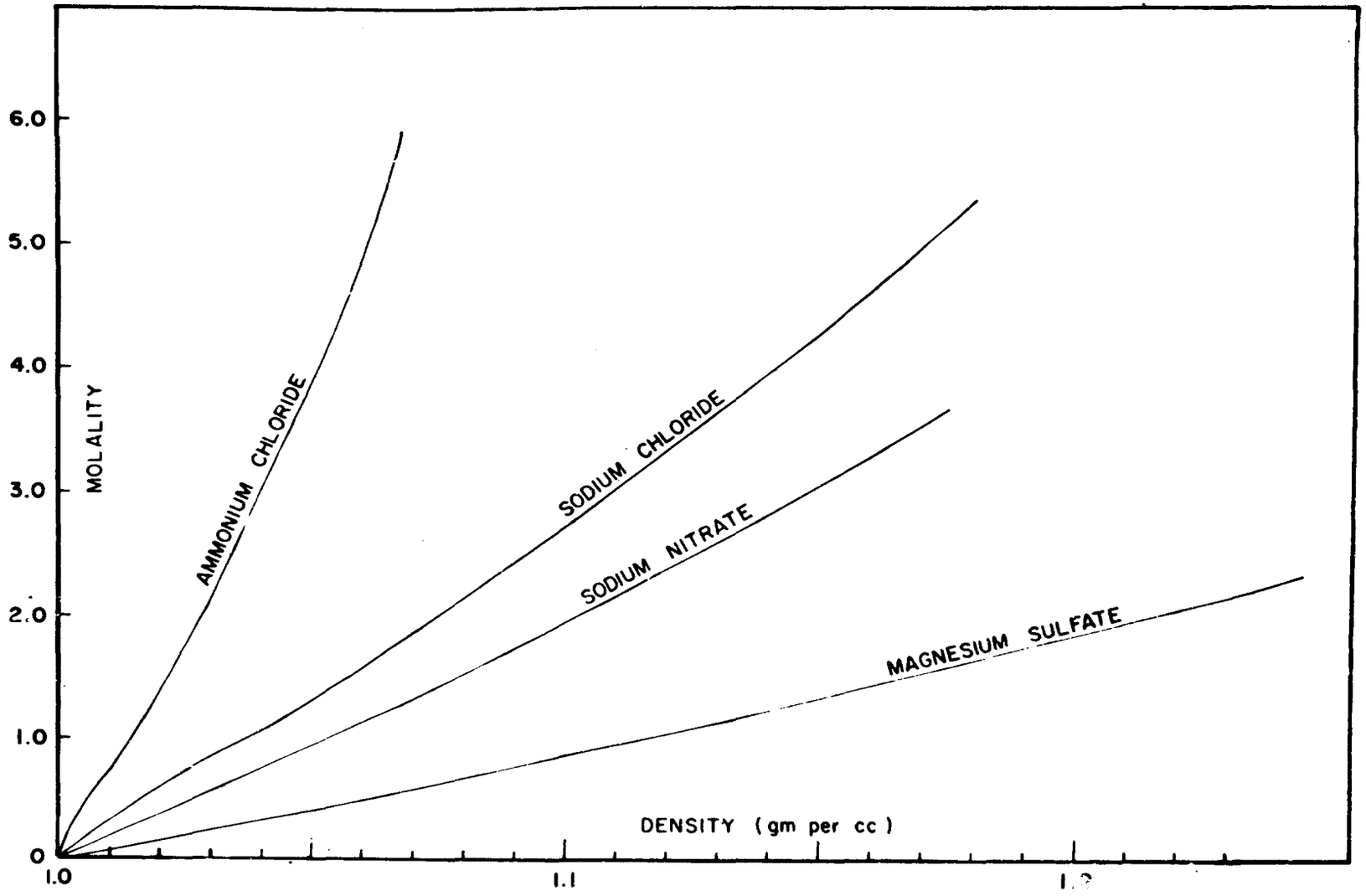


Figure 1. Relationship between molality and density of electrolytic solution.

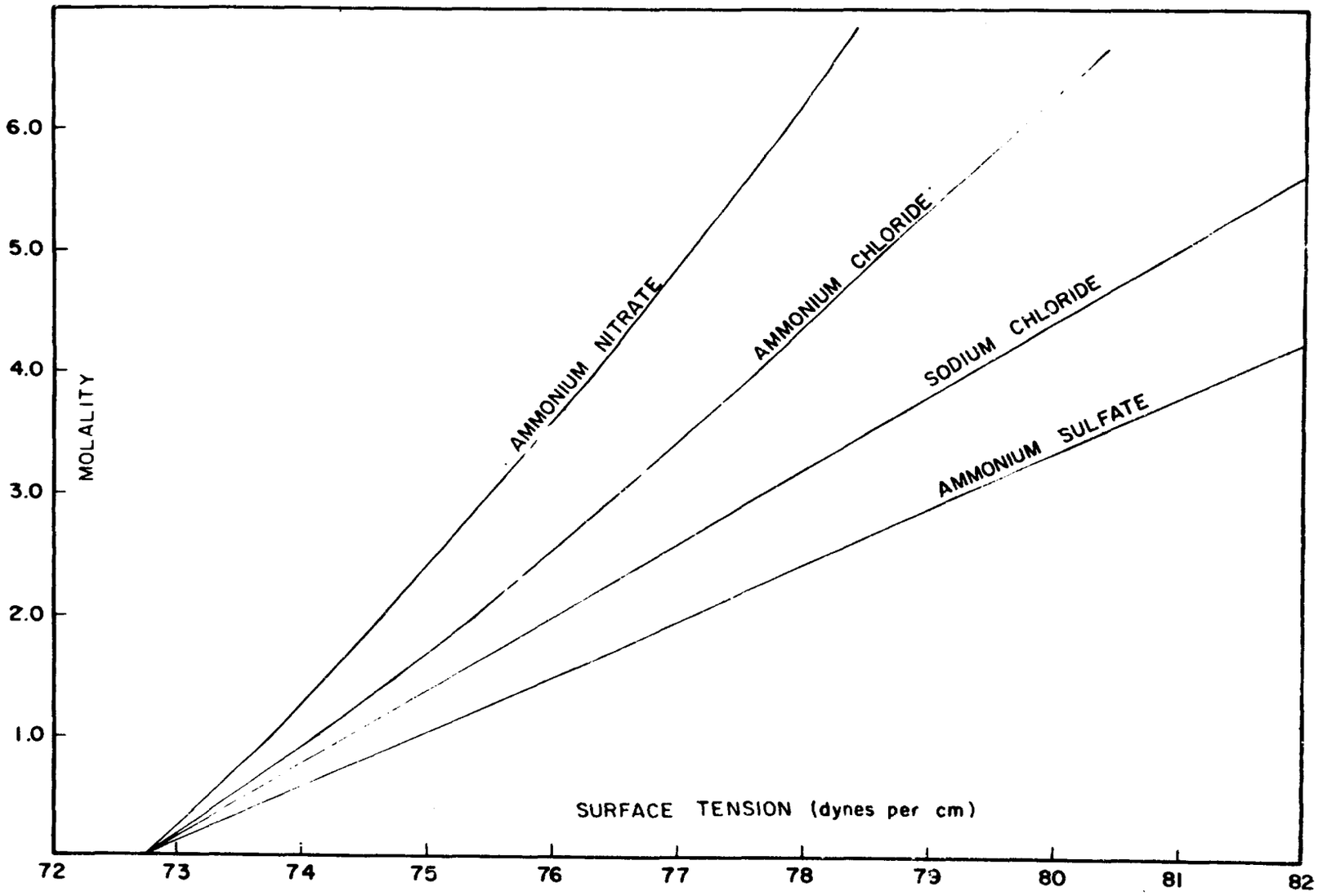


Figure 2. Relationship between molality and surface tension of electrolytic solution.

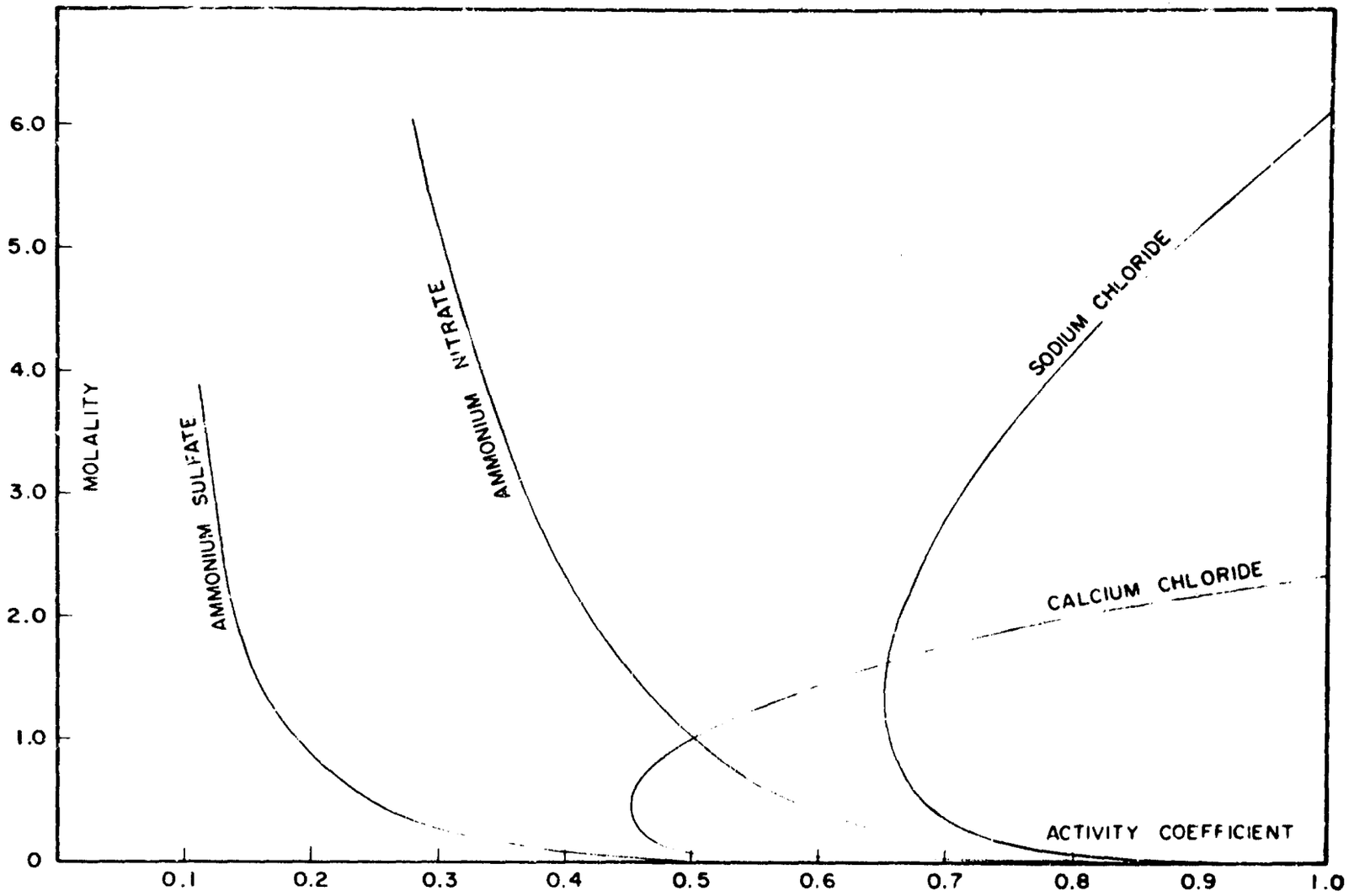


Figure 3. Relationship between molality and activity coefficient of electrolytic solution.

ARRANGEMENT OF TABLES

The nineteen sets of tables for droplet growth appended to this report are arranged in the order of their respective hygroscopicities, a new definition to be discussed in the next section. Each set deals with one electrolytic nucleus: Its physical properties are given in the first two tables and its equilibrium growth behaviors for a given mass in the subsequent tables, from which the "Köhler curve" may be constructed.

HYGROSCOPICITY

Hygroscopicity generally refers to the ability of a substance to accelerate the condensation of water vapor, or it can refer to the measure of such ability (for instance, see Huschke, 1959). It is the latter connotation of which a discussion is proposed. The usual measure of hygroscopicity is based on the relative humidity at which a substance begins to condense water. Calcium chloride is thus more hygroscopic than sodium chloride because the former begins to condense water at about 32% relative humidity while the latter at about 76% (Robinson and Stokes, 1959; O'Brien, 1948); these are equilibrium values over saturated solutions. They are equivalent to water activities as indicated by Equation (6), which can be interpreted as equilibrium relative humidity over the plane surface of a solution.

In Table 1, a staggered interpolation line is drawn across a table of several electrolytes, which indicates approximately the amount of concentration required of each to bring about the same degree of water activity. It was readily calculated that to achieve the same water activity of 0.9668 at 25C, which is the water activity of one mole of NaCl dissolved completely in 1000 grams of pure water, 72.50 grams of $CaCl_2$ or 58.45 grams of NaCl will be required. By the common measure, the former is more hygroscopic, but by this different criterion of mass it is less so. It is believed that the proposed criterion is more applicable to weather modification purposes. Figure 4 is a plot of water activity expressed in percent as a function of mass in grams. The hygroscopicities of several salts are well-represented by their respective slopes. Furthermore, it is obvious that solute concentration varies indirectly with water activity.

Therefore, it is proposed that for weather modification purposes hygroscopicity be defined as follows: The hygroscopicity of a

Table 1

Water activities and van't Hoff factors of eight electrolytes at 25C

Molality	Sodium Chloride ν = 2		Lithium Chloride ν = 2		Magnesium Chloride ν = 3		Calcium Chloride ν = 3	
	a	i	a	i	a	i	a	i
0.1	0.9966	1.867	0.9966	1.881	0.9954	2.589	0.9954	2.568
0.2	0.9933	1.856	0.9933	1.884	0.9906	2.644	0.9907	2.598
0.3	0.9901	1.853	0.9898	1.900	0.9856	2.705	0.9859	2.647
0.4	0.9868	1.852	0.9864	1.921	0.9803	2.785	0.9809	2.708
0.5	0.9836	1.857	0.9828	1.943	0.9747	2.878	0.9755	2.785
0.6	0.9802	1.864	0.9792	1.967	0.9688	2.975	0.9700	2.863
0.7	0.9769	1.874	0.9755	1.993	0.9627	3.070	0.9642	2.942
0.8	0.9735	1.883	0.9717	2.019	0.9562	3.179	0.9582	3.028
0.9	0.9702	1.892	0.9679	2.045	0.9492	3.298	0.9517	3.128
1.0	0.9668	1.904	0.9640	2.074	0.9419	3.426	0.9450	3.228
1.2	0.9600	1.925	0.9560	2.130	0.9261	3.692	0.9307	3.443
1.4	0.9532	1.948	0.9476	2.190	0.9093	3.979	0.9152	3.673
1.6	0.9460	1.973	0.9390	2.252	0.8900	4.286	0.8986	3.917
1.8	0.9389	2.007	0.9302	2.315	0.8698	4.616	0.8808	4.174
2.0	0.9316	2.037	0.9210	2.381	0.8482	4.967	0.8618	4.451
2.5	0.9133	2.121	0.8966	2.561	0.7882	5.968	0.8091	5.239
3.0	0.8942	2.213	0.8702	2.759	0.7219	7.129	0.7494	6.186
3.5	0.8727	2.314	0.8418	2.981	0.6516	8.478	0.6875	7.210
4.0	0.8514	2.422	0.8115	3.223	0.5798	10.055	0.6239	8.364
4.5	0.8295	2.536	0.7799	3.481	0.5082	11.936	0.5602	9.686
5.0	0.8068	2.659	0.7470	3.760	0.4393	14.197	0.4988	11.155
5.5	0.7835	2.788	0.7133	4.057	--	--	0.4425	12.716
6.0	0.7598	2.926	0.6790	4.374	--	--	0.3916	14.372

Table 1 (cont.)

Molality	Potassium Chloride $\nu = 2$		Ammonium Sulfate $\nu = 3$		Magnesium Sulfate $\nu = 2$		Calcium Nitrate $\nu = 3$	
	a	i	a	i	a	i	a	i
0.1	0.9967	1.657	0.9959	2.306	0.9978	1.213	0.9955	2.486
0.2	0.9934	1.832	0.9921	2.202	0.9960	1.126	0.9912	2.468
0.3	0.9902	1.821	0.9886	2.133	0.9942	1.083	0.9868	2.470
0.4	0.9871	1.816	0.9852	2.086	0.9924	1.062	0.9824	2.485
0.5	0.9839	1.813	0.9819	2.050	0.9906	1.049	0.9780	2.503
0.6	0.9808	1.814	0.9786	2.023	0.9889	1.042	0.9734	2.527
0.7	0.9776	1.814	0.9754	1.999	0.9870	1.041	0.9688	2.551
0.8	0.9745	1.817	0.9722	1.984	0.9852	1.044	0.9642	2.576
0.9	0.9713	1.820	0.9691	1.969	0.9833	1.049	0.9595	2.603
1.0	0.9682	1.823	0.9660	1.954	0.9813	1.060	0.9546	2.638
1.2	0.9619	1.833	0.9598	1.935	0.9768	1.097	0.9446	2.714
1.4	0.9556	1.844	0.9536	1.930	0.9718	1.150	0.9343	2.788
1.6	0.9492	1.856	0.9475	1.923	0.9662	1.215	0.9238	2.863
1.8	0.9428	1.870	0.9412	1.927	0.9600	1.286	0.9132	2.933
2.0	0.9364	1.885	0.9349	1.933	0.9531	1.364	0.9021	3.011
2.5	0.9201	1.927	0.9189	1.960	0.9322	1.616	0.8735	3.216
3.0	0.9037	1.972	0.9022	2.006	0.9052	1.939	0.8433	3.438
3.5	0.8871	2.018	0.8848	2.065	--	--	0.8117	3.680
4.0	0.8702	2.071	0.8670	2.128	--	--	0.7787	3.944
4.5	0.8531	2.124	0.8490	2.194	--	--	0.7451	4.221
5.0	--	--	0.8308	2.261	--	--	0.7108	4.516
5.5	--	--	0.8124	2.331	--	--	0.6769	4.818
6.0	--	--	--	--	--	--	0.6432	5.132

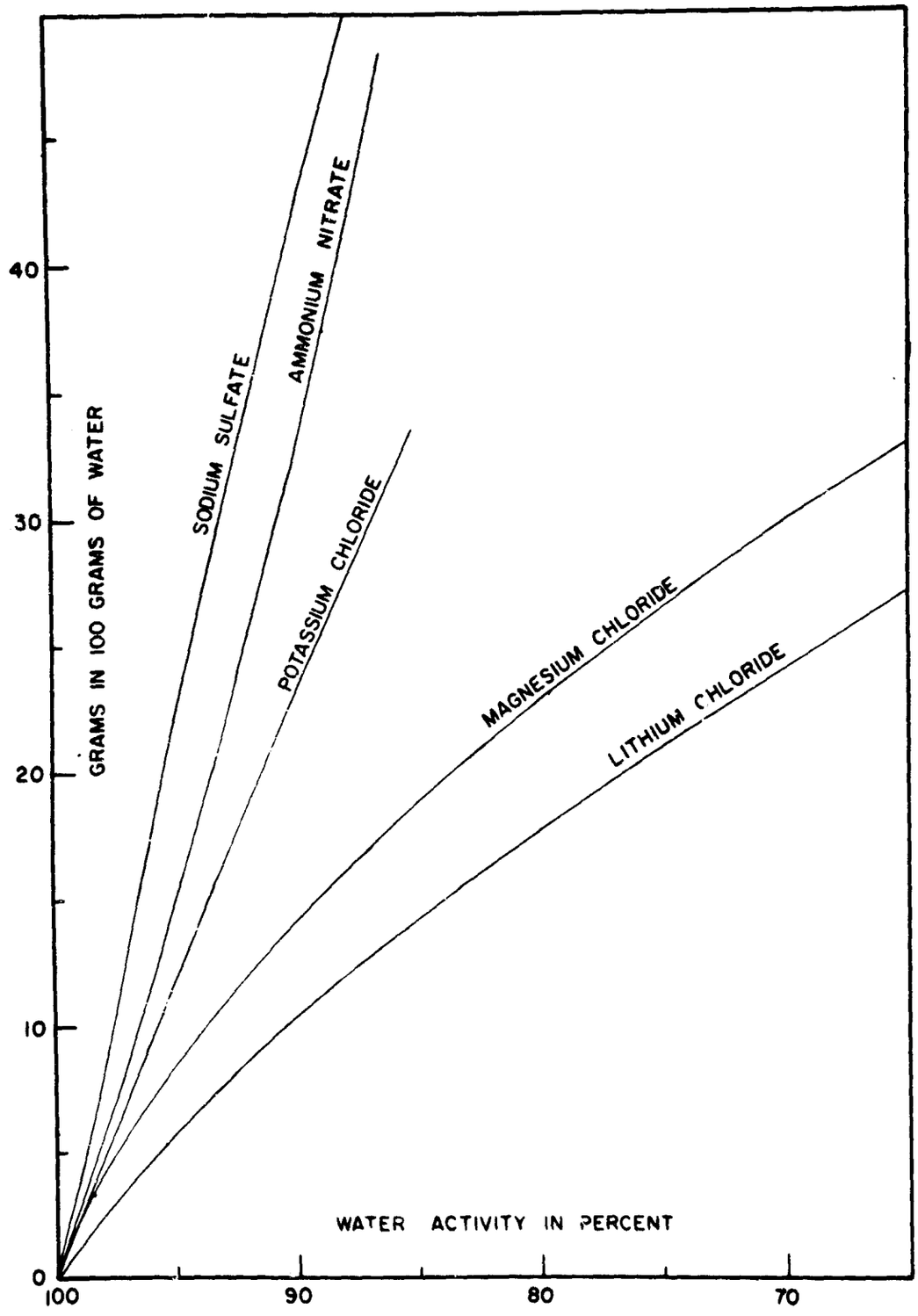


Figure 4. Relationship between water activity and mass of electrolyte.

substance is determined by the mass of the substance required in one kilogram of pure water to achieve a given degree of vapor-pressure lowering. For an arbitrary value of 0.95, which will then include the less hygroscopic electrolytic nuclei in the ranks, Table 2 was prepared, thereby providing a comparison between the old and new orderings of the nineteen nuclei. The mass of each is expressed in grams dissolved completely in 100 grams of pure water. It is seen that the new order is considerably different from the old (Robinson and Stokes, 1959; O'Brien, 1948).

EQUILIBRIUM GROWTH

Of primary importance in the selection of the proper condensation nuclei for seeding experiments is a knowledge of their respective critical radii and critical saturation ratios in addition to crystal sizes and terminal velocities. As an example, the approximate critical saturation ratios and radii of the nineteen nuclei were extracted from the tables in the Appendix for 10^{-15} and 10^{-16} grams in mass and are presented in Tables 3 and 4. These values could have been determined quite exactly if a finer interval of concentration had been taken. Nevertheless, the ordering of the critical saturation ratios generally appears to conform to the new definition of hygroscopicity reasonably well.

Table 5 summarizes the crystal sizes and terminal velocities of these nuclei to provide a quick reference. In general, as the mass of a crystal increases by three orders of magnitude, its terminal velocity increases by two orders and its corresponding radius by one order.

Figures 5 and 6 are examples of the "Köhler curve" for six condensation nuclei of the same mass but of widely different hygroscopicities. These figures furnish an immediate comparison of the relative growth behaviors of these nuclei. No additional curves were presented since the growth behaviors above saturation of nucleus masses greater or less than 10^{-15} gram can be estimated by approximating Equations (3) and (5). Upon neglecting the higher-order terms, we arrive at the following forms:

$$(r_1/r_2)^3 \doteq M_2/M_1(m_1/m_2) \quad , \quad \text{and} \tag{8}$$

$$p_{r1}/p_{r2} \doteq r_2/r_1 \tag{9}$$

Table 2 Old and New Orders of Nineteen Electrolytes

Ordering	1	2	3	4	5	6	7	8
Electrolyte	LiCl	$CaCl_2$	$MgCl_2$	$Zn(NO_3)_2$	NaBr	NH_4NO_3	$NaNO_3$	NaCl
R.H. (%)*	13.0	18.0	33.0	45.0	56.0	62.0	74.0	76.0
Electrolyte	LiCl	NH_4Cl	$MgCl_2$	NaCl	$CaCl_2$	KCl	NH_4NO_3	$NaNO_3$
Mass (gm)@	5.70	8.44	8.47	8.70	10.28	11.75	14.53	14.54

*The lower value is used, if several values are given.
@Completely dissolved in 100 grams of pure water.

9	10	11	12	13	14	15	16	17	18	19
NH_4Cl	$(NH_4)_2SO_4$	KBr	KI	KCl	Na_2SO_4	$ZnSO_4$	$BaCl_2$	$MgSO_4$	KNO_3	$CuSO_4$
77.0	80.0	81.0	84.0	85.0	86.0	88.0	90.0	91.0	92.0	96.0
NaBr	$Zn(NO_3)_2$	KBr	$(NH_4)_2SO_4$	$BaCl_2$	Na_2SO_4	KNO_3	$MgSO_4$	KI	$ZnSO_4$	$CuSO_4$
14.66	17.27	18.49	20.05	21.11	21.66	22.04	24.46	25.13	25.32	---

NOT REPRODUCIBLE

Table 3

Approximate Critical Saturation Ratios and Radii
of Solution Droplets at 20°C

Chemical Substance	Saturation Ratio	Radius (cm)	Liquid Water (g)
Lithium chloride	1.000947	8.245 x 10-5	2.359 x 10^{-12}
Ammonium chloride	1.001065	6.063 x 10-5	9.349 x 10^{-13}
Magnesium chloride	1.001160	6.290 x 10-5	1.050 x 10^{-12}
Sodium chloride	1.001111	5.884 x 10-5	8.557 x 10^{-13}
Calcium chloride	1.001258	5.964 x 10-5	9.012 x 10^{-13}
Potassium chloride	1.001267	5.427 x 10-5	6.708 x 10^{-13}
Ammonium nitrate	1.001313	5.281 x 10-5	6.248 x 10^{-13}
Sodium nitrate	1.001352	5.181 x 10-5	5.884 x 10^{-13}
Sodium bromide	1.001473	4.865 x 10-5	4.860 x 10^{-13}
Zinc nitrate	1.001621	3.955 x 10-5	2.641 x 10^{-13}
Potassium bromide	1.001589	4.635 x 10-5	4.202 x 10^{-13}
Ammonium sulfate	1.001344	5.610 x 10-5	7.569 x 10^{-13}
Barium chloride	1.001734	3.855 x 10-5	2.401 x 10^{-13}
Sodium sulfate	1.001409	5.512 x 10-5	7.042 x 10^{-13}
Potassium nitrate	1.001481	4.904 x 10-5	4.947 x 10^{-13}
Magnesium sulfate	1.001694	3.669 x 10-5	2.077 x 10^{-13}
Potassium Iodide	1.001865	3.618 x 10-5	2.009 x 10^{-13}
Zinc sulfate	1.002195	2.455 x 10-5	6.196 x 10^{-14}
Cupric sulfate	1.002288	2.464 x 10-5	6.267 x 10^{-14}
		Mass = 10^{-15} gram	

Table 4

Approximate Critical Saturation Ratios and Radii of Solution Droplets at <0°C

Chemical Substance	Saturation Ratio	Radius (cm)	Liquid Water (g)
Lithium chloride	1.003065	2.239 x 10^{-5}	4.718 x 10^{-14}
Ammonium chloride	1.003456	2.075 x 10^{-5}	3.740 x 10^{-14}
Magnesium chloride	1.003748	1.840 x 10^{-5}	2.626 x 10^{-14}
Sodium chloride	1.003568	2.013 x 10^{-5}	3.423 x 10^{-14}
Calcium chloride	1.004087	1.620 x 10^{-5}	1.803 x 10^{-14}
Potassium chloride	1.004073	1.747 x 10^{-5}	2.236 x 10^{-14}
Ammonium nitrate	1.004243	1.616 x 10^{-5}	1.765 x 10^{-14}
Sodium nitrate	1.004350	1.585 x 10^{-5}	1.661 x 10^{-14}
Sodium bromide	1.004727	1.488 x 10^{-5}	1.389 x 10^{-14}
Zinc nitrate	1.005305	1.274 x 10^{-5}	8.603 x 10^{-15}
Potassium bromide	1.005125	1.357 x 10^{-5}	1.051 x 10^{-14}
Ammonium sulfate	1.004537	1.364 x 10^{-5}	1.081 x 10^{-14}
Barium chloride	1.005677	1.179 x 10^{-5}	6.862 x 10^{-15}
Sodium sulfate	1.004723	1.409 x 10^{-5}	1.174 x 10^{-14}
Potassium nitrate	1.004801	1.435 x 10^{-5}	1.237 x 10^{-14}
Magnesium sulfate	1.006552	9.968 x 10^{-6}	4.155 x 10^{-15}
Potassium Iodide	1.005995	1.166 x 10^{-5}	6.695 x 10^{-15}
Zinc sulfate	1.007770	9.046 x 10^{-6}	3.098 x 10^{-15}
Cupric sulfate	1.007864	9.081 x 10^{-6}	3.134 x 10^{-15}

Mass = 10^{-16} gram

Table 5 Terminal Velocity and Radius of a given Mass

Mass (gm)	Lithium Chloride		Ammonium Chloride		Magnesium Chloride		Sodium Chloride	
	u(cm/sec)	r(cm)	u(cm/sec)	r(cm)	u(cm/sec)	r(cm)	u(cm/sec)	r(cm)
10^{-16}	1.265E-5	2.260E-6	1.144E-5	2.499E-6	1.316E-5	2.174E-6	1.285E-5	2.226E-6
10^{-15}	5.873E-5	4.869E-6	5.312E-5	5.384E-6	6.107E-5	4.683E-6	5.964E-5	4.795E-6
10^{-14}	2.726E-4	1.049E-5	2.465E-4	1.160E-5	2.835E-4	1.009E-5	2.768E-4	1.033E-5

Calcium Chloride		Potassium Chloride		Ammonium Nitrate		Sodium Nitrate	
u(cm/sec)	r(cm)	u(cm/sec)	r(cm)	u(cm/sec)	r(cm)	u(cm/sec)	r(cm)
1.282E-5	2.230E-6	1.249E-5	2.290E-6	1.176E-5	2.432E-6	1.303E-5	2.195E-6
5.952E-5	4.805E-6	5.796E-5	4.934E-6	5.458E-5	5.239E-6	6.047E-5	4.729E-6
2.762E-4	1.035E-5	2.691E-4	1.063E-5	2.534E-4	1.129E-5	2.807E-4	1.019E-5

Sodium Bromide		Zinc Nitrate		Potassium Bromide		Ammonium Sulfate	
u(cm/sec)	r(cm)	u(cm/sec)	r(cm)	u(cm/sec)	r(cm)	u(cm/sec)	r(cm)
1.464E-5	1.953E-6	1.265E-5	2.261E-6	1.392E-5	2.055E-6	1.201E-5	2.381E-6
6.797E-5	4.208E-6	5.870E-5	4.872E-6	6.459E-5	4.428E-6	5.575E-5	5.129E-6
3.155E-4	9.065E-6	2.725E-4	1.050E-5	2.998E-4	9.540E-6	2.588E-4	1.105E-5

Table 5 Terminal Velocity and Radius of a given Mass (cont'd)

Mass (gm)	Barium Chloride		Sodium Sulfate		Potassium Nitrate		Magnesium Sulfate	
	u(cm/sec)	r(cm)	u(cm/sec)	r(cm)	u(cm/sec)	r(cm)	u(cm/sec)	r(cm)
10^{-16}	1.557E-5	1.836E-6	1.383E-5	2.068E-6	1.274E-5	2.245E-6	1.376E-5	2.078E-6
10^{-15}	7.229E-5	3.956E-6	6.418E-5	4.456E-6	5.913E-5	4.837E-6	6.387E-5	4.477E-6
10^{-14}	3.355E-4	8.523E-6	2.979E-4	9.600E-6	2.744E-4	1.042E-5	2.965E-4	9.646E-6

Potassium Iodide		Zinc Sulfate		Cupric Sulfate	
u(cm/sec)	r(cm)	u(cm/sec)	r(cm)	u(cm/sec)	r(cm)
1.453E-5	1.968E-6	1.542E-5	1.855E-6	1.523E-5	1.878E-6
6.743E-5	4.241E-6	7.156E-5	3.996E-6	7.069E-5	4.045E-6
3.130E-4	9.137E-6	3.321E-4	8.610E-6	3.281E-4	8.715E-6

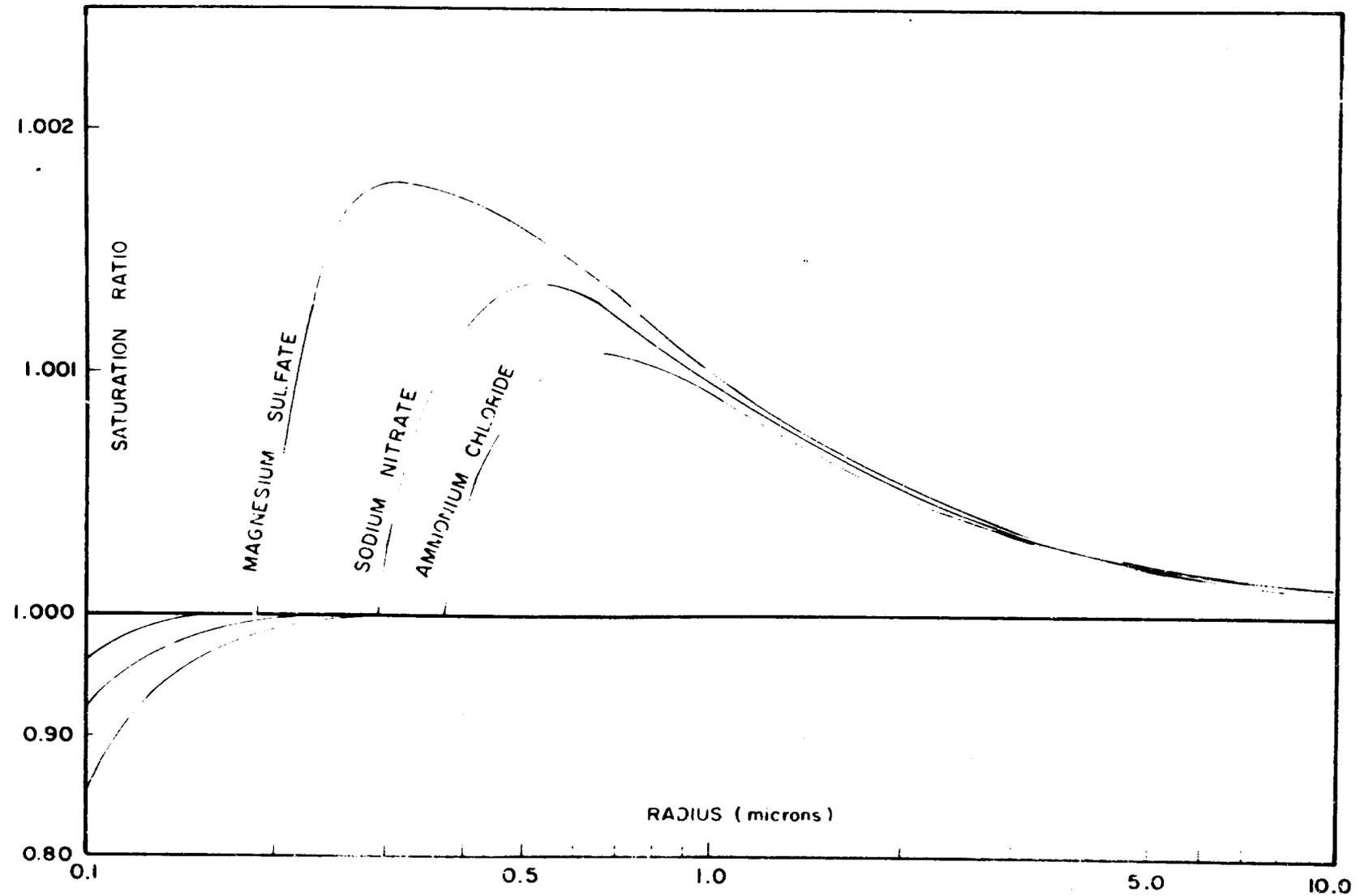


Figure 5. Equilibrium growth of solution droplet containing nucleus mass of 10^{-15} gram at 20C.

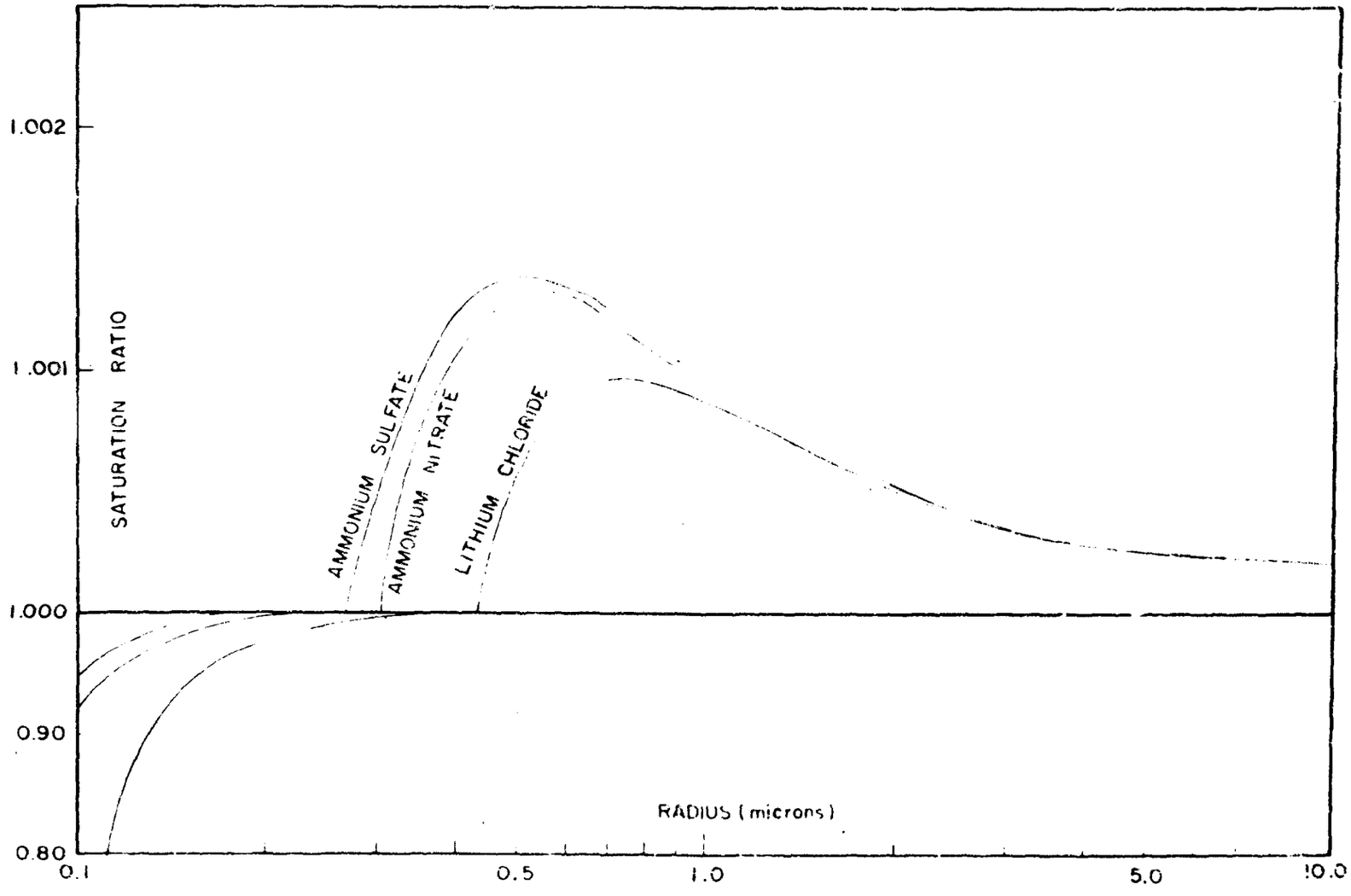


Figure 6. Equilibrium growth of solution droplet containing nucleus mass of 10^{-15} gram at 20C.

where m_1 and m_2 are two given masses; r_1 and r_2 the radii of solution droplets containing the respective masses at different saturation ratios expressed in percent relative humidity; M_1 and M_2 the resulting concentrations of the respective droplets expressed in molality; and p_{r1} and p_{r2} the equilibrium vapor pressures over droplets with r_1 and r_2 respectively. For $m_1 = m_2$, (8) and (9) give only an order-of-magnitude estimate, and for m_1 differing from m_2 by one order of magnitude they give fair estimates. For m_1 differing from m_2 by two or more orders of magnitude, they give excellent estimates as can be verified by checking the results against the corresponding tabulation in the Appendix. For example, a 10^{-15}-gram LiCl will grow to a size of 2.00 microns radius in a supersaturated air of 0.0513%, but for a 10^{-13}-gram nucleus, the droplet will grow to 20.0 microns in a supersaturated air of 0.0051%, and for a 10^{-11}-gram nucleus it becomes 200 microns and 0.0005%. Thus to obtain other growth curves from an initial curve one can translate a point on the curve twice to reach the proper magnitudes of radius and saturation ratio. One may also estimate the expected droplet size at saturation or 100% relative humidity by setting $p_r = p_o$ in (5) and then using it in conjunction with (3).

Despite some inaccuracy in sketching these curves in Figures 5 and 6, it is readily seen that the nuclei, irrespective of their different hygroscopicities, will eventually grow to about the same size in varying time intervals. This problem will be dealt with in the next report.

SUMMARY

No attempt has been made in this report to single out which electrolytic nucleus is most efficient as a seeding agent since other factors need to be considered but rather to present a comprehensive picture of their differing intrinsic properties. The information presented here would enable a cloud physicist in the field, when given other facts about the environment, to make an intelligent choice among the available artificial condensation nuclei and would also provide an experimental cloud physicist with a ready reference for comparison with laboratory results.

Without taking other factors into account, it may be possible to state that on the basis of their growth behaviors the chlorides are preferable to either the sulfates or the nitrates and that the lighter substances have a definite advantage over the heavier ones as can be inferred from Equations (1) and (2).

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APPENDIX

(1) LITHIUM CHLORIDE

LITHIUM CHLORIDE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
42.40	2.068	2.0

MASS (G)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.2654E-05	2.2601E-06
1.00E-15	5.8732E-05	4.8692E-06
1.00E-14	2.7261E-04	1.0490E-05
1.00E-13	1.2654E-03	2.2601E-05
1.00E-12	5.8732E-03	4.8692E-05
1.00E-11	2.7261E-02	1.0490E-04
1.00E-10	1.2654E-01	2.2601E-04
1.00E-09	5.8732E-01	4.8692E-04
1.00E-08	2.7261E 00	1.0490E-03
1.00E-07	1.2654E 01	2.2601E-03
1.00E-06	5.8732E 01	4.8692E-03

LITHIUM CHLORIDE
(ONE-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
6.0000	0.67897	4.37430
5.5000	0.71329	4.05681
5.0000	0.74702	3.75966
4.5000	0.77993	3.48066
4.0000	0.81154	3.22280
3.5000	0.84176	2.98142
3.0000	0.87023	2.75933
2.5000	0.89658	2.56126
2.0000	0.92100	2.38061
1.8000	0.93018	2.31476
1.6000	0.93904	2.25208
1.4000	0.94765	2.19036
1.2000	0.95599	2.12956
1.0000	0.96399	2.07380
0.9000	0.96791	2.04518
0.8000	0.97173	2.01881
0.7000	0.97549	1.99262
0.6000	0.97919	1.96661
0.5000	0.98280	1.94280
0.4000	0.98635	1.92118
0.3000	0.98984	1.89968
0.2000	0.99326	1.88437
0.1000	0.99662	1.88118
0.0900	0.99694	1.89309
0.0800	0.99726	1.90501
0.0700	0.99759	1.91691
0.0600	0.99792	1.92880
0.0500	0.99825	1.94069
0.0400	0.99859	1.95255
0.0300	0.99894	1.96443
0.0200	0.99929	1.97630
0.0100	0.99964	1.98814
0.0090	0.99968	1.98933
0.0080	0.99971	1.99052
0.0070	0.99975	1.99166

0.0050	C.99978	1.99286
0.0049	0.99982	1.99407
0.0048	0.99986	1.99520
0.0030	C.99989	1.99644
0.0020	C.99993	1.99754
0.0019	C.99993	1.99774
0.0018	C.99994	1.99773
0.0017	C.99994	1.99797
0.0016	0.99994	1.99798
0.0015	C.99995	1.99799
0.0014	C.99995	1.99830
0.0013	0.99995	1.99834
0.0012	C.99996	1.99838
0.0011	0.99996	1.99844
0.0010	0.99996	1.99851
0.0009	C.99997	1.99859
0.0008	C.99997	1.99870
0.0007	C.99997	1.99884
0.0006	0.99998	1.99903
0.0005	C.99998	1.99930
0.0004	C.99999	1.99868
0.0003	C.99999	1.99902
0.0002	C.99999	1.99972
0.0001	1.00000	2.00000

NOT REPRODUCIBLE

LITHIUM CHLORIDE

(CRYSTAL MASS = 1.000E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAIN(GM)
4.723E-06	0.634781	3.933E-16
4.853E-06	0.729461	4.290E-16
4.994E-06	0.763458	4.719E-16
5.157E-06	0.796528	5.243E-16
5.346E-06	0.828171	5.899E-16
5.571E-06	0.858298	6.741E-16
5.845E-06	0.886496	7.865E-16
6.190E-06	0.912393	9.438E-16
6.644E-06	0.936104	1.180E-15
6.872E-06	0.944916	1.311E-15
7.137E-06	0.953358	1.475E-15
7.439E-06	0.961476	1.685E-15
7.791E-06	0.969249	1.966E-15
8.210E-06	0.976577	2.359E-15
8.715E-06	0.980115	2.621E-15
8.937E-06	0.983517	2.949E-15
9.183E-06	0.986812	3.370E-15
9.458E-06	0.989999	3.932E-15
1.014E-05	0.993005	4.719E-15
1.128E-05	0.995853	5.898E-15
1.239E-05	0.998503	7.864E-15
1.412E-05	1.000657	1.180E-14
1.774E-05	1.002674	2.359E-14
1.941E-05	1.002785	2.621E-14
2.091E-05	1.002883	2.949E-14
2.248E-05	1.002966	3.370E-14
2.417E-05	1.003029	3.932E-14
2.599E-05	1.003065	4.718E-14
2.911E-05	1.003041	5.898E-14
3.554E-05	1.002998	7.864E-14
3.938E-05	1.002834	1.180E-13
4.327E-05	1.002456	2.359E-13
4.964E-05	1.002395	2.621E-13
4.122E-05	1.002326	2.949E-13
4.310E-05	1.002248	3.370E-13

4.537E-05	1.002158	3.932E-13
4.821E-05	1.002054	4.718E-13
5.194E-05	1.001930	5.898E-13
5.716E-05	1.001776	7.864E-13
6.544E-05	1.001574	1.180E-12
8.244E-05	1.001270	2.359E-12
8.539E-05	1.001228	2.621E-12
8.881E-05	1.001183	2.949E-12
9.285E-05	1.001134	3.370E-12
9.775E-05	1.001080	3.932E-12
1.039E-04	1.001018	4.718E-12
1.119E-04	1.000948	5.898E-12
1.232E-04	1.000863	7.864E-12
1.410E-04	1.000756	1.180E-11
1.776E-04	1.000602	2.359E-11
1.840E-04	1.000582	2.621E-11
1.913E-04	1.000560	2.949E-11
2.000E-04	1.000535	3.370E-11
2.106E-04	1.000509	3.932E-11
2.238E-04	1.000479	4.718E-11
2.411E-04	1.000445	5.898E-11
2.658E-04	1.000404	7.865E-11
3.037E-04	1.000354	1.180E-10
3.827E-04	1.000291	2.360E-10
3.984E-04	1.000271	2.622E-10
4.178E-04	1.000251	2.950E-10
4.410E-04	1.000249	3.372E-10
4.693E-04	1.000237	3.934E-10
4.842E-04	1.000223	4.721E-10
5.195E-04	1.000207	5.903E-10
5.718E-04	1.000183	7.873E-10
6.547E-04	1.000154	1.182E-09
8.247E-04	1.000130	2.368E-09

LITHIUM CHLORIDE

(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.013E-05	0.686270	3.933E-15
1.046E-05	0.720751	4.290E-15
1.076E-05	0.754607	4.719E-15
1.111E-05	0.787591	5.243E-15
1.152E-05	0.819215	5.899E-15
1.200E-05	0.849398	6.741E-15
1.259E-05	0.877740	7.865E-15
1.334E-05	0.903880	9.437E-15
1.431E-05	0.927982	1.180E-14
1.481E-05	0.936992	1.311E-14
1.538E-05	0.945661	1.475E-14
1.605E-05	0.954042	1.685E-14
1.687E-05	0.962121	1.966E-14
1.790E-05	0.969810	2.359E-14
1.853E-05	0.973553	2.621E-14
1.926E-05	0.977182	2.949E-14
2.012E-05	0.980729	3.370E-14
2.116E-05	0.984184	3.932E-14
2.247E-05	0.987524	4.719E-14
2.418E-05	0.990747	5.898E-14
2.650E-05	0.993853	7.864E-14
3.042E-05	0.996777	1.180E-13
3.330E-05	0.999427	2.359E-13
3.790E-05	0.999849	2.621E-13
4.125E-05	0.999967	2.949E-13
4.512E-05	1.000081	3.370E-13
4.539E-05	1.000298	3.932E-13
4.823E-05	1.000495	4.718E-13
5.173E-05	1.000665	5.898E-13
5.719E-05	1.000821	7.864E-13
6.545E-05	1.000933	1.180E-12
8.245E-05	1.000947	2.359E-12
8.540E-05	1.000938	2.621E-12
8.831E-05	1.000925	2.949E-12
9.286E-05	1.000908	3.370E-12

9.779E-05	1.000856	3.932E-12
1.039E-04	1.000857	4.718E-12
1.119E-04	1.000818	5.898E-12
1.232E-04	1.000766	7.864E-12
1.410E-04	1.000691	1.180E-11
1.776E-04	1.000570	2.359E-11
1.840E-04	1.000553	2.621E-11
1.913E-04	1.000534	2.949E-11
2.000E-04	1.000513	3.370E-11
2.106E-04	1.000489	3.932E-11
2.236E-04	1.000463	4.718E-11
2.411E-04	1.000432	5.898E-11
2.653E-04	1.000395	7.864E-11
3.037E-04	1.000347	1.180E-10
3.827E-04	1.000278	2.359E-10
3.963E-04	1.000263	2.621E-10
4.122E-04	1.000248	2.949E-10
4.310E-04	1.000247	3.370E-10
4.537E-04	1.000235	3.932E-10
4.821E-04	1.000221	4.718E-10
5.194E-04	1.000206	5.898E-10
5.716E-04	1.000187	7.864E-10
6.544E-04	1.000164	1.180E-09
8.245E-04	1.000130	2.360E-09
8.540E-04	1.000126	2.622E-09
8.882E-04	1.000121	2.950E-09
9.286E-04	1.000116	3.372E-09
9.776E-04	1.000110	3.934E-09
1.039E-03	1.000103	4.721E-09
1.119E-03	1.000096	5.903E-09
1.232E-03	1.000087	7.873E-09
1.411E-03	1.000076	1.182E-08
1.778E-03	1.000050	2.367E-08

LITHIUM CHLORIDE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.195E-05	0.682351	3.932E-14
2.252E-05	0.716743	4.290E-14
2.318E-05	0.750534	4.719E-14
2.394E-05	0.783477	5.243E-14
2.481E-05	0.815091	5.898E-14
2.586E-05	0.845298	6.741E-14
2.713E-05	0.873706	7.864E-14
2.873E-05	0.899960	9.437E-14
3.084E-05	0.924236	1.180E-13
3.190E-05	0.933336	1.311E-13
3.312E-05	0.942109	1.475E-13
3.458E-05	0.950612	1.685E-13
3.635E-05	0.958831	1.966E-13
3.857E-05	0.966685	2.359E-13
3.992E-05	0.970523	2.621E-13
4.148E-05	0.974256	2.949E-13
4.334E-05	0.977917	3.370E-13
4.559E-05	0.981502	3.932E-13
4.841E-05	0.984991	4.718E-13
5.210E-05	0.988336	5.898E-13
5.730E-05	0.991699	7.864E-13
6.554E-05	0.994889	1.180E-12
8.251E-05	0.997923	2.359E-12
8.545E-05	0.998196	2.621E-12
8.887E-05	0.998470	2.949E-12
9.290E-05	0.998745	3.370E-12
9.779E-05	0.999018	3.932E-12
1.039E-04	0.999289	4.718E-12
1.119E-04	0.999555	5.898E-12
1.232E-04	0.999812	7.864E-12
1.410E-04	1.000051	1.180E-11
1.776E-04	1.000248	2.359E-11
1.840E-04	1.000262	2.621E-11
1.913E-04	1.000276	2.949E-11
2.000E-04	1.000287	3.370E-11

2.106E-04	1.000296	3.932E-11
2.238E-04	1.000301	4.718E-11
2.411E-04	1.000313	5.898E-11
2.655E-04	1.000298	7.864E-11
3.037E-04	1.000282	1.180E-10
3.427E-04	1.000245	2.359E-10
3.963E-04	1.000239	2.621E-10
4.122E-04	1.000232	2.949E-10
4.310E-04	1.000224	3.370E-10
4.537E-04	1.000216	3.932E-10
4.821E-04	1.000205	4.718E-10
5.193E-04	1.000193	5.898E-10
5.710E-04	1.000177	7.863E-10
6.543E-04	1.000157	1.180E-09
8.244E-04	1.000127	2.359E-09
8.539E-04	1.000123	2.621E-09
8.831E-04	1.000118	2.949E-09
9.285E-04	1.000113	3.370E-09
9.775E-04	1.000108	3.932E-09
1.039E-03	1.000102	4.718E-09
1.114E-03	1.000095	5.898E-09
1.232E-03	1.000086	7.864E-09
1.410E-03	1.000076	1.180E-08
1.776E-03	1.000060	2.360E-08
1.840E-03	1.000058	2.622E-08
1.914E-03	1.000056	2.950E-08
2.001E-03	1.000054	3.372E-08
2.106E-03	1.000051	3.934E-08
2.238E-03	1.000048	4.721E-08
2.411E-03	1.000044	5.903E-08
2.654E-03	1.000040	7.872E-08
3.039E-03	1.000035	1.182E-07
3.831E-03	1.000026	2.367E-07

LITHIUM CHLORIDE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.728E-05	0.680539	3.932E-13
4.853E-05	0.714891	4.290E-13
4.994E-05	0.748651	4.719E-13
5.157E-05	0.781575	5.243E-13
5.346E-05	0.813184	5.898E-13
5.571E-05	0.843402	6.741E-13
5.845E-05	0.871840	7.864E-13
6.190E-05	0.898146	9.437E-13
6.644E-05	0.922502	1.180E-12
6.872E-05	0.931644	1.311E-12
7.136E-05	0.940465	1.475E-12
7.436E-05	0.949023	1.685E-12
7.781E-05	0.957397	1.966E-12
8.209E-05	0.965238	2.359E-12
8.600E-05	0.969119	2.621E-12
8.937E-05	0.972900	2.949E-12
9.337E-05	0.976615	3.370E-12
9.821E-05	0.980260	3.932E-12
1.043E-04	0.983817	4.718E-12
1.123E-04	0.987292	5.898E-12
1.234E-04	0.990701	7.864E-12
1.412E-04	0.994014	1.180E-11
1.778E-04	0.997226	2.359E-11
1.841E-04	0.997523	2.621E-11
1.915E-04	0.997823	2.949E-11
2.002E-04	0.998125	3.370E-11
2.107E-04	0.998429	3.932E-11
2.239E-04	0.998735	4.718E-11
2.411E-04	0.999041	5.898E-11
2.654E-04	0.999345	7.864E-11
3.033E-04	0.999642	1.180E-10
3.652E-04	0.999923	2.359E-10
3.954E-04	0.999949	2.949E-10
4.122E-04	0.999974	3.370E-10
4.310E-04	0.999989	3.932E-10

4.537E-04	1.000022	3.932E-10
4.821E-04	1.000044	4.718E-10
5.194E-04	1.000083	5.898E-10
5.716E-04	1.000080	7.863E-10
6.543E-04	1.000092	1.180E-09
8.244E-04	1.000095	2.359E-09
8.539E-04	1.000094	2.621E-09
8.881E-04	1.000092	2.949E-09
9.235E-04	1.000091	3.370E-09
9.774E-04	1.000088	3.932E-09
1.039E-03	1.000086	4.718E-09
1.119E-03	1.000082	5.897E-09
1.231E-03	1.000077	7.863E-09
1.410E-03	1.000069	1.179E-08
1.776E-03	1.000057	2.359E-08
1.840E-03	1.000055	2.621E-08
1.913E-03	1.000053	2.949E-08
2.000E-03	1.000051	3.370E-08
2.106E-03	1.000049	3.932E-08
2.238E-03	1.000046	4.718E-08
2.411E-03	1.000043	5.898E-08
2.653E-03	1.000039	7.864E-08
3.037E-03	1.000035	1.180E-07
3.827E-03	1.000028	2.360E-07
3.974E-03	1.000027	2.622E-07
4.123E-03	1.000026	2.950E-07
4.310E-03	1.000025	3.372E-07
4.538E-03	1.000023	3.934E-07
4.822E-03	1.000022	4.721E-07
5.195E-03	1.000021	5.902E-07
5.718E-03	1.000019	7.872E-07
6.547E-03	1.000016	1.182E-06
8.254E-03	1.000013	2.367E-06

LITHIUM CHLORIDE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C).

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.[illegible]E-04	0.679700	3.932E-12
1.[illegible]E-04	0.714033	4.290E-12
1.[illegible]E-04	0.747778	4.719E-12
1.111E-04	0.780694	5.243E-12
1.152E-04	0.812360	5.898E-12
1.200E-04	0.842523	6.741E-12
1.253E-04	0.870575	7.864E-12
1.334E-04	0.897306	9.437E-12
1.431E-04	0.921699	1.180E-11
1.480E-04	0.930860	1.311E-11
1.538E-04	0.939703	1.474E-11
1.605E-04	0.948287	1.685E-11
1.687E-04	0.956501	1.966E-11
1.790E-04	0.964567	2.359E-11
1.853E-04	0.968469	2.621E-11
1.925E-04	0.972272	2.949E-11
2.012E-04	0.976011	3.370E-11
2.116E-04	0.979684	3.932E-11
2.247E-04	0.983273	4.718E-11
2.418E-04	0.986795	5.898E-11
2.650E-04	0.990238	7.864E-11
3.042E-04	0.993608	1.180E-10
3.330E-04	0.996903	2.359E-10
3.966E-04	0.997211	2.621E-10
4.125E-04	0.997522	2.949E-10
4.312E-04	0.997838	3.370E-10.
4.539E-04	0.998156	3.932E-10
4.823E-04	0.998478	4.718E-10
5.199E-04	0.998802	5.898E-10
5.718E-04	0.999127	7.863E-10
6.544E-04	0.999453	1.180E-09
8.245E-04	0.999779	2.359E-09
8.533E-04	0.999804	2.621E-09
8.881E-04	0.999834	2.949E-09
9.295E-04	0.999865	3.370E-09

5.775E-04	0.999895	3.932E-09
1.033E-03	0.999924	4.718E-09
1.119E-03	0.999952	5.897E-09
1.232E-03	0.999979	7.863E-09
1.410E-03	1.000004	1.179E-08
1.776E-03	1.000025	2.359E-08
1.340E-03	1.000026	2.621E-08
1.913E-03	1.000027	2.949E-08
2.000E-03	1.000029	3.370E-08
2.106E-03	1.000029	3.932E-08
2.238E-03	1.000030	4.718E-08
2.411E-03	1.000030	5.897E-08
2.653E-03	1.000030	7.863E-08
3.037E-03	1.000028	1.179E-07
3.927E-03	1.000025	2.359E-07
3.963E-03	1.000024	2.621E-07
4.122E-03	1.000023	2.949E-07
4.310E-03	1.000022	3.370E-07
4.537E-03	1.000022	3.932E-07
4.821E-03	1.000021	4.718E-07
5.193E-03	1.000019	5.898E-07
5.716E-03	1.000018	7.864E-07
6.544E-03	1.000016	1.180E-06
8.245E-03	1.000013	2.360E-06
8.540E-03	1.000012	2.622E-06
8.832E-03	1.000012	2.950E-06
9.265E-03	1.000011	3.371E-06
9.776E-03	1.000011	3.934E-06
1.039E-02	1.000010	4.721E-06
1.119E-02	1.000009	5.902E-06
1.232E-02	1.000009	7.872E-06
1.411E-02	1.000008	1.182E-05
1.776E-02	1.000006	2.367E-05

LITHIUM CHLORIDE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.194E-04	0.679310	3.932E-11
2.252E-04	0.713635	4.289E-11
2.318E-04	0.747373	4.718E-11
2.393E-04	0.780285	5.243E-11
2.481E-04	0.811890	5.898E-11
2.586E-04	0.842115	6.740E-11
2.713E-04	0.870574	7.864E-11
2.873E-04	0.896916	9.436E-11
3.084E-04	0.921326	1.180E-10
3.190E-04	0.930456	1.311E-10
3.312E-04	0.939350	1.474E-10
3.459E-04	0.947945	1.685E-10
3.635E-04	0.956273	1.966E-10
3.857E-04	0.964256	2.359E-10
3.992E-04	0.968167	2.621E-10
4.143E-04	0.971980	2.949E-10
4.334E-04	0.975731	3.370E-10
4.559E-04	0.979417	3.932E-10
4.840E-04	0.983020	4.718E-10
5.210E-04	0.986549	5.898E-10
5.730E-04	0.990024	7.863E-10
6.559E-04	0.993420	1.180E-09
8.291E-04	0.996753	2.359E-09
8.544E-04	0.997066	2.621E-09
8.836E-04	0.997383	2.949E-09
9.204E-04	0.997704	3.370E-09
9.779E-04	0.998029	3.932E-09
1.063E-03	0.998358	4.718E-09
1.119E-03	0.998691	5.897E-09
1.232E-03	0.999027	7.863E-09
1.410E-03	0.999365	1.179E-08
1.770E-03	0.999703	2.359E-08
1.840E-03	0.999736	2.621E-08
1.913E-03	0.999769	2.949E-08
2.000E-03	0.999803	3.370E-08

2.106E-03	0.993836	3.932E-09
2.238E-03	0.993868	4.718E-09
2.411E-03	0.999901	5.897E-09
2.653E-03	0.999933	7.863E-09
3.037E-03	0.999963	1.179E-07
3.827E-03	0.999992	2.359E-07
3.963E-03	0.999995	2.621E-07
4.122E-03	0.999997	2.949E-07
4.310E-03	1.000000	3.370E-07
4.537E-03	1.000002	3.931E-07
4.821E-03	1.000004	4.718E-07
5.193E-03	1.000006	5.897E-07
5.716E-03	1.000008	7.863E-07
6.543E-03	1.000009	1.179E-06
8.244E-03	1.000009	2.359E-06
8.559E-03	1.000009	2.621E-06
8.881E-03	1.000009	2.949E-06
9.285E-03	1.000009	3.370E-06
9.774E-03	1.000009	3.932E-06
1.039E-02	1.000009	4.718E-06
1.119E-02	1.000008	5.898E-06
1.232E-02	1.000008	7.864E-06
1.410E-02	1.000007	1.180E-05
1.776E-02	1.000006	2.360E-05
1.840E-02	1.000006	2.622E-05
1.914E-02	1.000005	2.950E-05
2.001E-02	1.000005	3.371E-05
2.106E-02	1.000005	3.934E-05
2.238E-02	1.000005	4.721E-05
2.411E-02	1.000004	5.902E-05
2.654E-02	1.000004	7.872E-05
3.039E-02	1.000003	1.181E-04
3.831E-02	1.000003	2.367E-04

LITHIUM CHLORIDE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.723E-04	0.679130	3.932E-10
4.854E-04	0.713450	4.289E-10
4.994E-04	0.747186	4.718E-10
5.157E-04	0.780095	5.242E-10
5.346E-04	0.811700	5.893E-10
5.571E-04	0.841926	6.740E-10
5.845E-04	0.870388	7.864E-10
6.190E-04	0.896735	9.436E-10
6.644E-04	0.921153	1.180E-09
6.872E-04	0.930327	1.311E-09
7.136E-04	0.939186	1.474E-09
7.450E-04	0.947787	1.685E-09
7.831E-04	0.956121	1.966E-09
8.309E-04	0.964112	2.359E-09
8.600E-04	0.968027	2.621E-09
8.937E-04	0.971845	2.949E-09
9.337E-04	0.975601	3.370E-09
9.821E-04	0.979293	3.932E-09
1.043E-03	0.982993	4.718E-09
1.122E-03	0.986440	5.897E-09
1.234E-03	0.989924	7.863E-09
1.412E-03	0.993332	1.179E-08
1.778E-03	0.996683	2.359E-08
1.841E-03	0.996993	2.621E-08
1.914E-03	0.997316	2.949E-08
2.001E-03	0.997642	3.370E-08
2.107E-03	0.997970	3.932E-08
2.239E-03	0.998303	4.718E-08
2.411E-03	0.998640	5.897E-08
2.654E-03	0.998990	7.863E-08
3.038E-03	0.999324	1.179E-07
3.827E-03	0.999670	2.359E-07
3.964E-03	0.999705	2.621E-07
4.122E-03	0.999739	2.949E-07
4.310E-03	0.999774	3.370E-07

4.537E-03	0.999803	3.931E-07
4.921E-03	0.999843	4.718E-07
5.193E-03	0.999877	5.897E-07
5.716E-03	0.999911	7.863E-07
6.543E-03	0.999944	1.179E-06
8.244E-03	0.999977	2.359E-06
8.539E-03	0.999980	2.621E-06
8.830E-03	0.999983	2.949E-06
9.235E-03	0.999986	3.370E-06
9.774E-03	0.999989	3.931E-06
1.039E-02	0.999992	4.718E-06
1.119E-02	0.999995	5.897E-06
1.231E-02	0.999998	7.863E-06
1.410E-02	1.000000	1.179E-05
1.776E-02	1.000002	2.359E-05
1.844E-02	1.000003	2.621E-05
1.913E-02	1.000003	2.949E-05
2.000E-02	1.000003	3.370E-05
2.106E-02	1.000003	3.932E-05
2.238E-02	1.000003	4.718E-05
2.411E-02	1.000003	5.897E-05
2.653E-02	1.000003	7.863E-05
3.037E-02	1.000003	1.180E-04
3.827E-02	1.000002	2.359E-04
3.964E-02	1.000002	2.622E-04
4.122E-02	1.000002	2.950E-04
4.310E-02	1.000002	3.371E-04
4.538E-02	1.000002	3.934E-04
4.822E-02	1.000002	4.721E-04
5.195E-02	1.000002	5.902E-04
5.713E-02	1.000002	7.872E-04
6.567E-02	1.000002	1.181E-03
8.254E-02	1.000001	2.367E-03

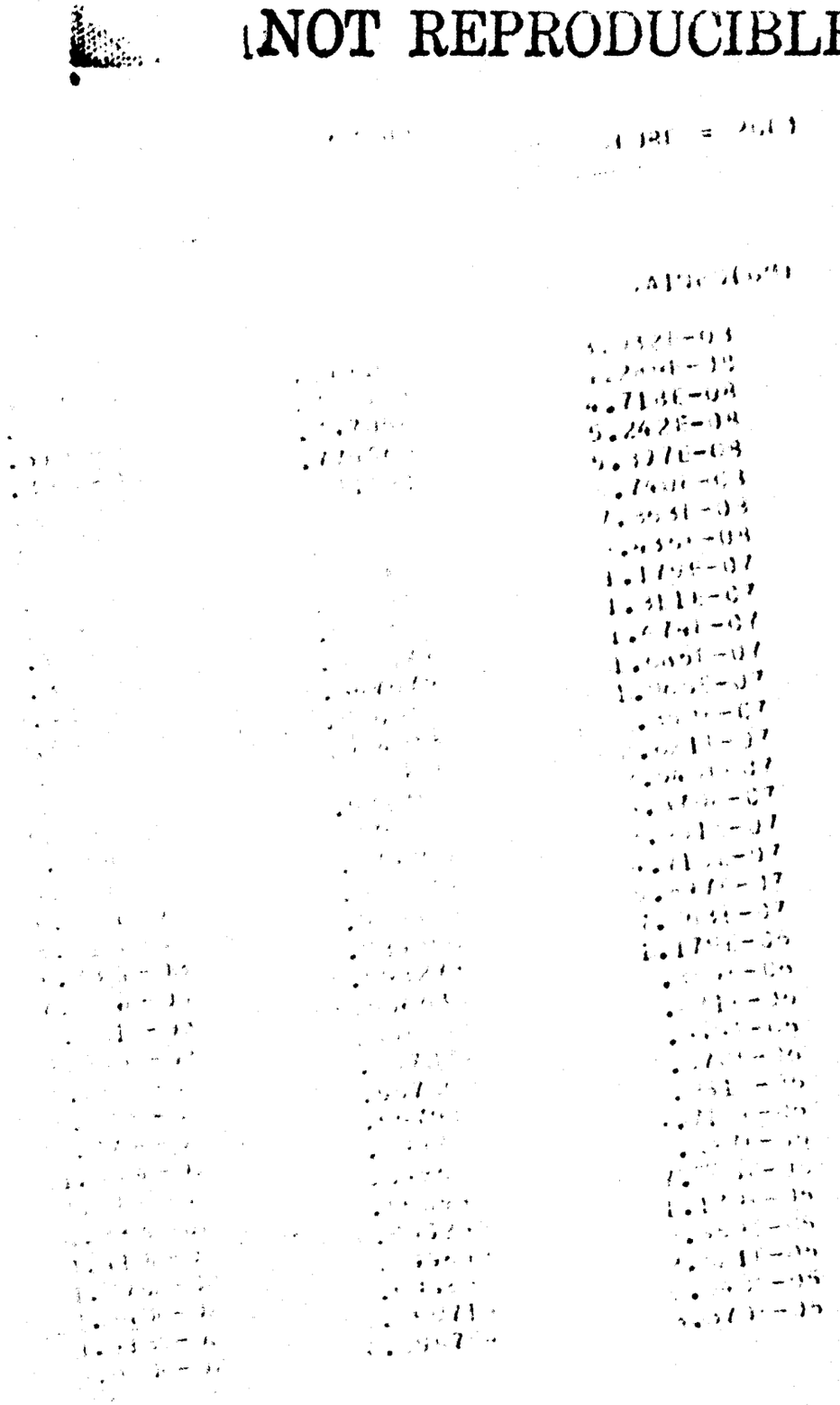
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LITHIUM CHLORIDE
(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.019E-03	0.679046	3.932E-09
1.045E-03	0.713364	4.259E-09
1.076E-03	0.747099	4.718E-09
1.111E-03	0.780007	5.242E-09
1.152E-03	0.811512	5.898E-09
1.200E-03	[illegible]	6.740E-09
1.259E-03	0.870301	7.863E-09
1.334E-03	0.896651	9.436E-09
1.431E-03	0.921073	1.179E-08
1.480E-03	0.930249	1.311E-08
1.537E-03	0.939110	1.474E-08
1.605E-03	0.947713	1.686E-08
1.687E-03	0.956051	1.966E-08
1.790E-03	0.964044	2.359E-08
1.853E-03	0.967962	2.621E-08
1.929E-03	0.971742	2.949E-08
2.011E-03	0.975541	3.370E-08
2.111E-03	0.979235	3.932E-08
2.241E-03	0.982849	4.718E-08
2.411E-03	0.986399	5.897E-08
2.655E-03	0.989873	7.863E-08
3.042E-03	0.993272	1.179E-07
3.853E-03	0.996651	2.359E-07
3.976E-03	0.997667	2.621E-07
4.129E-03	0.998723	2.949E-07
4.312E-03	0.999761	3.370E-07
4.533E-03	0.999743	3.931E-07
4.823E-03	0.998277	4.718E-07
5.199E-03	0.998616	5.897E-07
5.717E-03	0.999359	7.863E-07
6.544E-03	0.999305	1.179E-06
8.295E-03	0.999655	2.359E-06
8.553E-03	0.999690	2.621E-06
8.881E-03	0.999725	2.949E-06
9.295E-03	0.999760	3.370E-06

9.77xE-03	0.999750	3.731E-06
1.13xE-02	0.999891	4.713E-06
1.114E-02	0.999947	5.077E-06
1.291E-02	0.999981	7.263E-06
1.491E-02	0.999996	1.179E-05
1.772E-02	0.999970	2.359E-05
1.944E-02	0.999973	2.621E-05
1.914E-02	0.999977	2.943E-05
2.004E-02	0.999990	3.370E-05
2.106E-02	0.999985	3.931E-05
2.231E-02	0.999987	4.718E-05
2.411E-02	0.999999	5.897E-05
2.991E-02	0.999993	7.864E-05
3.037E-02	0.999996	1.179E-04
3.120E-02	0.999999	2.359E-04
3.191E-02	0.999999	2.621E-04
4.132E-02	1.000000	2.949E-04
4.313E-02	1.000000	3.370E-04
4.557E-02	1.000000	3.931E-04
4.821E-02	1.000000	4.718E-04
5.193E-02	1.000001	5.897E-04
5.710E-02	1.000001	7.863E-04
6.543E-02	1.000001	1.180E-03
8.243E-02	1.000001	2.360E-03
8.533E-02	1.000001	2.622E-03
8.832E-02	1.000001	2.950E-03
9.239E-02	1.000001	3.371E-03
9.779E-02	1.000001	3.933E-03
1.054E-01	1.000001	4.721E-03
1.119E-01	1.000001	5.902E-03
1.232E-01	1.000001	7.872E-03
1.410E-01	1.000001	1.181E-02
1.776E-01	1.000001	2.361E-02

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2.106E-02	C.999790	3.931E-05
2.238E-02	0.999825	4.718E-05
2.411E-02	C.999861	5.897E-05
2.653E-02	0.999896	7.862E-05
3.037E-02	0.999932	1.179E-04
3.826E-02	C.999967	2.359E-04
3.963E-02	C.999970	2.621E-04
4.122E-02	0.999974	2.948E-04
4.309E-02	0.999977	3.370E-04
4.537E-02	0.999981	3.931E-04
4.821E-02	0.999984	4.717E-04
5.193E-02	C.999988	5.897E-04
5.716E-02	0.999991	7.862E-04
6.543E-02	0.999994	1.179E-03
8.244E-02	0.999998	2.359E-03
8.533E-02	C.999998	2.621E-03
8.880E-02	C.999998	2.948E-03
9.285E-02	C.999999	3.370E-03
9.774E-02	C.999999	3.931E-03
1.039E-01	C.999999	4.718E-03
1.119E-01	1.000000	5.897E-03
1.231E-01	1.000000	7.863E-03
1.410E-01	1.000000	1.180E-02
1.779E-01	1.000000	2.359E-02
1.840E-01	1.000000	2.622E-02
1.913E-01	1.000000	2.950E-02
2.001E-01	1.000000	3.371E-02
2.109E-01	1.000000	3.933E-02
2.238E-01	1.000000	4.721E-02
2.411E-01	1.000000	5.902E-02
2.654E-01	1.000000	7.871E-02
3.039E-01	1.000000	1.181E-01
3.831E-01	1.000000	2.367E-01

LITHIUM CHLORIDE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.728E-03	0.678999	3.932E-07
4.853E-03	0.713306	4.289E-07
4.994E-03	0.747039	4.718E-07
5.156E-03	0.779947	5.242E-07
5.346E-03	0.811552	5.897E-07
5.571E-03	0.841779	6.740E-07
5.845E-03	0.870242	7.863E-07
6.190E-03	0.896594	9.436E-07
6.644E-03	0.921018	1.179E-06
6.872E-03	0.930196	1.310E-06
7.136E-03	0.939058	1.474E-06
7.450E-03	0.947663	1.685E-06
7.831E-03	0.956093	1.966E-06
8.309E-03	0.963959	2.359E-06
8.599E-03	0.967917	2.621E-06
8.937E-03	0.971740	2.949E-06
9.336E-03	0.975500	3.370E-06
9.821E-03	0.979196	3.931E-06
1.043E-02	0.982812	4.718E-06
1.122E-02	0.986355	5.897E-06
1.234E-02	0.989846	7.863E-06
1.412E-02	0.993264	1.179E-05
1.778E-02	0.996629	2.359E-05
1.841E-02	0.996946	2.621E-05
1.914E-02	0.997268	2.948E-05
2.001E-02	0.997594	3.370E-05
2.107E-02	0.997925	3.931E-05
2.238E-02	0.998260	4.718E-05
2.411E-02	0.998599	5.897E-05
2.654E-02	0.998944	7.862E-05
3.038E-02	0.999292	1.179E-04
3.827E-02	0.999645	2.359E-04
3.963E-02	0.999680	2.621E-04
4.122E-02	0.999716	2.948E-04
4.310E-02	0.999751	3.370E-04

'NOT REPRODUCIBLE

4.9[illegible]E-02	0.999757	3.931E-04
4.[illegible]E-02	0.999823	4.717E-04
5.[illegible]E-02	0.999898	5.897E-04
5.[illegible]E-02	0.999946	7.662E-04
6.[illegible]E-02	0.999980	1.179E-03
8.[illegible]E-02	0.999994	2.359E-03
8.[illegible]E-02	0.999997	2.621E-03
8.[illegible]E-02	0.999997	2.949E-03
9.[illegible]E-02	0.999997	3.370E-03
9.77[illegible]E-02	0.999997	3.931E-03
1.03[illegible]E-01	0.999998	4.717E-03
1.11[illegible]E-01	0.999998	5.897E-03
1.23[illegible]E-01	0.999999	7.862E-03
1.41[illegible]E-01	0.999999	1.179E-02
1.77[illegible]E-01	0.999999	2.359E-02
1.[illegible]E-01	0.999999	2.621E-02
1.91[illegible]E-01	0.999999	2.949E-02
2.[illegible]E-01	0.999999	3.370E-02
2.1[illegible]E-01	0.999999	3.931E-02
2.2[illegible]E-01	0.999999	4.718E-02
2.[illegible]E-01	0.999999	5.897E-02
2.[illegible]E-01	0.999999	7.863E-02
3.[illegible]E-01	1.000000	1.179E-01
3.[illegible]E-01	1.000000	2.359E-01
3.[illegible]E-01	1.000000	2.622E-01
4.[illegible]E-01	1.000000	2.950E-01
4.[illegible]E-01	1.000000	3.371E-01
4.[illegible]E-01	1.000000	3.933E-01
4.[illegible]E-01	1.000000	4.720E-01
5.[illegible]E-01	1.000000	5.902E-01
6.[illegible]E-01	1.000000	7.871E-01
6.547E-01	1.000000	1.181E 00
8.2[illegible]E-01	1.000000	2.367E 00

NOT REPRODUCIBLE

LITHIUM CHLORIDE
(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.014E-02	0.678981	3.931E-06
1.045E-02	0.713298	4.289E-06
1.076E-02	0.747031	4.718E-06
1.111E-02	0.779939	5.242E-06
1.142E-02	0.811543	5.897E-06
1.208E-02	0.841770	6.740E-06
1.239E-02	0.870234	7.863E-06
1.334E-02	0.896586	9.435E-06
1.431E-02	0.921010	1.179E-05
1.530E-02	0.943016	1.310E-05
1.633E-02	0.959060	1.474E-05
1.699E-02	0.967656	1.635E-05
1.687E-02	0.975596	1.966E-05
1.790E-02	0.983902	2.359E-05
1.854E-02	0.987911	2.621E-05
1.925E-02	0.991733	2.948E-05
2.011E-02	0.995493	3.370E-05
2.110E-02	0.997191	3.931E-05
2.247E-02	0.998806	4.718E-05
2.411E-02	0.999350	5.897E-05
2.599E-02	0.999842	7.862E-05
2.842E-02	0.999960	1.179E-04
3.142E-02	0.999825	2.359E-04
3.966E-02	0.999943	2.621E-04
4.129E-02	0.999969	2.948E-04
4.312E-02	0.999991	3.370E-04
4.539E-02	0.999922	3.931E-04
4.823E-02	0.999957	4.717E-04
5.196E-02	0.999997	5.897E-04
5.717E-02	0.999941	7.862E-04
6.544E-02	0.999990	1.179E-03
8.244E-02	0.999943	2.359E-03
8.533E-02	0.999979	2.621E-03
8.881E-02	0.999714	2.948E-03
9.285E-02	0.999750	3.370E-03

NOT REPRODUCIBLE

5.774E-02	0.999780	3.931E-03
1.039E-01	0.999821	4.717E-03
1.117E-01	0.999857	5.897E-03
1.231E-01	0.999893	7.862E-03
1.410E-01	0.999929	1.179E-02
1.776E-01	0.999965	2.359E-02
1.840E-01	0.999963	2.621E-02
1.913E-01	0.999972	2.948E-02
2.000E-01	0.999975	3.369E-02
2.106E-01	0.999979	3.931E-02
2.239E-01	0.999982	4.717E-02
2.410E-01	0.999986	5.897E-02
2.653E-01	0.999990	7.862E-02
3.037E-01	0.999993	1.179E-01
3.820E-01	0.999997	2.359E-01
3.964E-01	0.999997	2.621E-01
4.122E-01	0.999997	2.948E-01
4.307E-01	0.999998	3.370E-01
4.5[illegible]E-01	0.999998	3.931E-01
4.821E-01	0.999998	4.717E-01
5.1[illegible]E-01	0.999999	5.897E-01
5.71[illegible]E-01	0.999999	7.863E-01
6.5[illegible]E-01	0.999999	1.179E 00
8.24[illegible]E-01	1.000000	2.359E 00
8.5[illegible]E-01	1.000000	2.622E 00
8.[illegible]E-01	1.000000	2.949E 00
9.2[illegible]E-01	1.000000	3.371E 00
9.7[illegible]E-01	1.000000	3.933E 00
1.0[illegible] 00	1.000000	4.720E 00
1.1[illegible] 00	1.000000	5.902E 00
1.3[illegible] 00	1.000000	7.871E 00
1.41[illegible] 00	1.000000	1.181E 01
1.77[illegible] 00	1.000000	2.367E 01

LITHIUM CHLORIDE

PERCENTAGE	MOLALITY	DENSITY
0.30	10.108	1.1791
0.24	7.448	1.1399
0.22	6.852	1.1274
0.20	5.896	1.1150
0.18	5.177	1.1029
0.16	4.492	1.0910
0.14	3.839	1.0792
0.12	3.216	1.0675
0.10	2.621	1.0559
0.08	2.051	1.0444
0.06	1.505	1.0330
0.04	0.983	1.0215
0.02	0.481	1.0099
0.01	0.238	1.0041
0.00	0.000	1.0000



NOT REPRODUCIBLE

AMMONIUM CHLORIDE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
53.50	1.530	2.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.1444E-05	2.4989E-06
1.00E-15	5.3120E-05	5.3836E-06
1.00E-14	2.4656E-04	1.1599E-05
1.00E-13	1.1444E-03	2.4989E-05
1.00E-12	5.3120E-03	5.3836E-05
1.00E-11	2.4656E-02	1.1599E-04
1.00E-10	1.1444E-01	2.4989E-04
1.00E-09	5.3120E-01	5.3836E-04
1.00E-08	2.4656E 00	1.1599E-03
1.00E-07	1.1444E 01	2.4989E-03
1.00E-06	5.3120E 01	5.3836E-03

AMMONIUM CHLORIDE
(ONE-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
6.0000	0.81101	2.15593
5.5000	0.82627	2.12204
5.0000	0.84149	2.09127
4.5000	0.85683	2.06114
4.0000	0.87268	2.02475
3.5000	0.88867	1.98696
3.0000	0.90476	1.94785
2.5000	0.92064	1.91404
2.0000	0.93660	1.87886
1.8000	0.94294	1.86629
1.6000	0.94928	1.85383
1.4000	0.95562	1.84148
1.2000	0.96192	1.83132
1.0000	0.96820	1.82330
0.9000	0.97136	1.81829
0.8000	0.97450	1.81534
0.7000	0.97766	1.81240
0.6000	0.98080	1.81151
0.5000	0.98394	1.81264
0.4000	0.98710	1.81375
0.3000	0.99025	1.82090
0.2000	0.99344	1.83202
0.1000	0.99667	1.85710
0.0900	0.99697	1.87143
0.0800	0.99729	1.88576
0.0700	0.99761	1.90007
0.0600	0.99794	1.91438
0.0500	0.99827	1.92867
0.0400	0.99860	1.94295
0.0300	0.99894	1.95722
0.0200	0.99929	1.97150
0.0100	0.99964	1.98574
0.0090	0.99968	1.98717
0.0080	0.99971	1.98855
0.0070	0.99975	1.99001

[illegible]	[illegible]	1.99141
[illegible]	[illegible]	1.99283
0.0040	0.99934	1.99427
0.0030	0.99981	1.99561
[illegible]	[illegible]	1.99713
[illegible]	[illegible]	1.99703
0.0018	0.99994	1.99727
0.0017	0.99994	1.99744
[illegible]	[illegible]	1.99772
[illegible]	[illegible]	1.99771
[illegible]	[illegible]	1.99800
[illegible]	[illegible]	1.99802
0.0012	0.99995	1.99804
0.0011	0.99996	1.99806
0.0010	0.99996	1.99851
[illegible]	0.99997	1.99859
[illegible]	0.99997	1.99870
[illegible]	0.99997	1.99884
[illegible]	0.99998	1.99903
[illegible]	0.99998	1.99848
[illegible]	0.99999	1.99868
[illegible]	0.99999	1.99902
0.0002	0.99999	1.99972
0.0001	1.00000	2.00000

NOT REPRODUCIBLE

AMPLITUDE CALCULATION

(CRITICAL MASS = 1.000 ... INCREMENT = 200)

[illegible]	[illegible]	[illegible]
4.[illegible]E-06	0.[illegible]	[illegible]
4.61[illegible]E-06	0.[illegible]	[illegible]
4.79[illegible]E-06	0.85113[illegible]	3.740E-16
4.88[illegible]E-06	0.876223	4.156E-16
5.05[illegible]E-06	0.89173[illegible]	4.675E-16
5.2[illegible]E-06	0.907[illegible]	5.463E-16
5.5[illegible]E-06	0.922[illegible]	6.235E-16
5.[illegible]E-06	0.93[illegible]	7.[illegible]E-16
6.22[illegible]E-06	0.95395[illegible]	9.349E-16
6.42[illegible]E-06	0.9549[illegible]	1.039E-15
6.67[illegible]E-06	0.96[illegible]	1.169E-15
6.9[illegible]E-06	0.970592	1.336E-15
7.30[illegible]E-06	0.97625[illegible]	1.558E-15
7.74[illegible]E-06	0.98179[illegible]	1.870E-15
8.00[illegible]E-06	0.98454[illegible]	2.078E-15
8.31[illegible]E-06	0.98723[illegible]	2.337E-15
8.69[illegible]E-06	0.99[illegible]	2.671E-15
9.13[illegible]E-06	0.992447	3.116E-15
9.66[illegible]E-06	0.99494[illegible]	3.740E-15
1.04[illegible]E-05	0.99735[illegible]	4.675E-15
1.14[illegible]E-05	0.999[illegible]	6.235E-15
1.31[illegible]E-05	1.001642	9.349E-15
1.44[illegible]E-05	1.003136	1.870E-14
1.70[illegible]E-05	1.00323[illegible]	[illegible]-14
1.77[illegible]E-05	1.00335[illegible]	[illegible]-14
1.95[illegible]E-05	1.00341[illegible]	[illegible]-14
1.95[illegible]E-05	1.00344[illegible]	[illegible]-14
2.17[illegible]E-05	1.00345[illegible]	[illegible]-14
2.23[illegible]E-05	1.003421	[illegible]-14
2.45[illegible]E-05	1.00332[illegible]	[illegible]-14
2.11[illegible]E-05	1.00311[illegible]	[illegible]-14
3.54[illegible]E-05	1.00261[illegible]	[illegible]-13
3.07[illegible]E-05	1.00241[illegible]	2.077[illegible]-13
3.11[illegible]E-05	1.00253[illegible]	2.337[illegible]-13
3.[illegible]E-05	1.002446[illegible]	2.671E-13

4.203E-05	1.002347	3.116E-13
4.457E-05	1.002231	3.739E-13
4.312E-05	1.002094	4.674E-13
5.296E-05	1.001925	6.232E-13
6.062E-05	1.001704	9.349E-13
7.037E-05	1.001373	1.870E-12
7.910E-05	1.001326	2.077E-12
8.227E-05	1.001279	2.337E-12
8.602E-05	1.001226	2.671E-12
9.055E-05	1.001167	3.116E-12
9.623E-05	1.001100	3.739E-12
1.037E-04	1.001024	4.674E-12
1.141E-04	1.000932	6.232E-12
1.306E-04	1.000817	9.348E-12
1.545E-04	1.000650	1.870E-11
1.704E-04	1.000628	2.077E-11
1.772E-04	1.000604	2.337E-11
1.853E-04	1.000578	2.671E-11
1.951E-04	1.000549	3.116E-11
2.078E-04	1.000517	3.740E-11
2.238E-04	1.000480	4.674E-11
2.453E-04	1.000437	6.233E-11
2.814E-04	1.000382	9.350E-11
3.545E-04	1.000303	1.870E-10
3.672E-04	1.000293	2.078E-10
3.819E-04	1.000281	2.338E-10
3.993E-04	1.000269	2.672E-10
4.204E-04	1.000256	3.118E-10
4.467E-04	1.000241	3.742E-10
4.813E-04	1.000223	4.678E-10
5.297E-04	1.000203	6.239E-10
6.065E-04	1.000177	9.365E-10
7.646E-04	1.000141	1.876E-09

AMMONIUM CHLORIDE
(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
5.713E-06	0.820242	3.117E-15
5.949E-06	0.835439	3.400E-15
1.022E-05	0.850562	3.740E-15
1.053E-05	0.865781	4.155E-15
1.089E-05	0.881469	4.675E-15
1.132E-05	0.897263	5.343E-15
1.185E-05	0.913100	6.233E-15
1.252E-05	0.928658	7.479E-15
1.341E-05	0.944201	9.349E-15
1.385E-05	0.950339	1.039E-14
1.437E-05	0.956453	1.169E-14
1.499E-05	0.962539	1.336E-14
1.574E-05	0.968548	1.558E-14
1.668E-05	0.974487	1.870E-14
1.725E-05	0.977461	2.078E-14
1.792E-05	0.980391	2.337E-14
1.871E-05	0.983308	2.671E-14
1.967E-05	0.986187	3.116E-14
2.087E-05	0.989029	3.740E-14
2.246E-05	0.991846	4.674E-14
2.469E-05	0.994585	6.233E-14
2.821E-05	0.997240	9.349E-14
3.550E-05	0.999691	1.870E-13
3.676E-05	0.999897	2.077E-13
3.823E-05	1.000101	2.337E-13
3.995E-05	1.000299	2.671E-13
4.207E-05	1.000491	3.116E-13
4.469E-05	1.000672	3.739E-13
4.814E-05	1.000836	4.674E-13
5.298E-05	1.000974	6.232E-13
6.053E-05	1.001065	9.349E-13
7.648E-05	1.001051	1.870E-12
7.911E-05	1.001038	2.077E-12
8.228E-05	1.001021	2.337E-12
8.602E-05	1.001000	2.671E-12

'NOT REPRODUCIBL

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
2.673E-04	1.000501	3.739E-11
2.238E-04	1.000467	4.674E-11
2.458E-04	1.000427	6.232E-11
[illegible]	[illegible]	9.348E-11
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
4.021E-04	1.000294	3.116E-10
4.[illegible]E-04	1.000243	3.739E-10
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

AMMONIUM CHLORIDE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIC	WATER GAINED(GM)
2.093E-05	0.815282	3.117E-14
2.144E-05	0.830515	3.400E-14
2.201E-05	0.845689	3.740E-14
2.268E-05	0.860975	4.155E-14
2.346E-05	0.876746	4.675E-14
2.439E-05	0.892646	5.342E-14
2.553E-05	0.908619	6.233E-14
2.698E-05	0.924352	7.479E-14
2.888E-05	0.940119	9.349E-14
2.984E-05	0.946365	1.039E-13
3.096E-05	0.952601	1.169E-13
3.229E-05	0.958824	1.336E-13
3.390E-05	0.964990	1.558E-13
3.593E-05	0.971112	1.870E-13
3.717E-05	0.974189	2.078E-13
3.860E-05	0.977232	2.337E-13
4.031E-05	0.980275	2.671E-13
4.238E-05	0.983294	3.116E-13
4.497E-05	0.986296	3.739E-13
4.838E-05	0.989300	4.674E-13
5.317E-05	0.992263	6.232E-13
6.079E-05	0.995204	9.349E-13
7.648E-05	0.998069	1.870E-12
7.920E-05	0.998330	2.077E-12
8.236E-05	0.998593	2.337E-12
8.610E-05	0.998857	2.671E-12
9.063E-05	0.999120	3.116E-12
9.629E-05	0.999382	3.739E-12
1.037E-04	0.999638	4.674E-12
1.141E-04	0.999885	6.232E-12
1.306E-04	1.000113	9.348E-12
1.646E-04	1.000296	1.870E-11
1.704E-04	1.000309	2.077E-11
1.773E-04	1.000320	2.337E-11
1.853E-04	1.000330	2.671E-11

1.951E-04	1.000336	3.116E-11
2.073E-04	1.000339	3.739E-11
2.233E-04	1.000338	4.674E-11
2.458E-04	1.000330	6.232E-11
2.814E-04	1.000310	9.348E-11
3.545E-04	1.000267	1.870E-10
3.672E-04	1.000261	2.077E-10
3.819E-04	1.000253	2.337E-10
3.992E-04	1.000244	2.671E-10
4.203E-04	1.000234	3.116E-10
4.466E-04	1.000223	3.739E-10
4.811E-04	1.000209	4.674E-10
5.295E-04	1.000192	6.232E-10
6.062E-04	1.000170	9.348E-10
7.637E-04	1.000137	1.870E-09
7.910E-04	1.000133	2.077E-09
8.227E-04	1.000128	2.337E-09
8.602E-04	1.000123	2.671E-09
9.055E-04	1.000117	3.116E-09
9.622E-04	1.000110	3.739E-09
1.037E-03	1.000102	4.674E-09
1.141E-03	1.000093	6.233E-09
1.306E-03	1.000082	9.349E-09
1.646E-03	1.000065	1.870E-08
1.704E-03	1.000063	2.078E-08
1.773E-03	1.000060	2.338E-08
1.853E-03	1.000058	2.672E-08
1.951E-03	1.000055	3.118E-08
2.074E-03	1.000052	3.742E-08
2.234E-03	1.000048	4.678E-08
2.459E-03	1.000044	6.239E-08
2.815E-03	1.000038	9.364E-08
3.549E-03	1.000030	1.876E-07

AMMONIUM CHLORIDE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.508E-05	0.812990	3.116E-13
4.618E-05	0.828239	3.400E-13
4.743E-05	0.843436	3.740E-13
4.887E-05	0.858753	4.155E-13
5.055E-05	0.874562	4.675E-13
5.256E-05	0.890512	5.342E-13
5.501E-05	0.906547	6.233E-13
5.812E-05	0.922361	7.479E-13
6.223E-05	0.938230	9.349E-13
6.429E-05	0.944526	1.039E-12
6.670E-05	0.950818	1.169E-12
6.956E-05	0.957105	1.336E-12
7.304E-05	0.963343	1.558E-12
7.741E-05	0.969550	1.870E-12
8.007E-05	0.972674	2.077E-12
8.317E-05	0.975770	2.337E-12
8.684E-05	0.978871	2.671E-12
9.130E-05	0.981955	3.116E-12
9.689E-05	0.985030	3.739E-12
1.042E-04	0.988120	4.674E-12
1.146E-04	0.991186	6.232E-12
1.310E-04	0.994260	9.348E-12
1.648E-04	0.997317	1.870E-11
1.706E-04	0.997604	2.077E-11
1.774E-04	0.997895	2.337E-11
1.855E-04	0.998189	2.671E-11
1.952E-04	0.998485	3.116E-11
2.075E-04	0.998784	3.739E-11
2.234E-04	0.999083	4.674E-11
2.459E-04	0.999380	6.232E-11
2.814E-04	0.999672	9.348E-11
3.545E-04	0.999946	1.870E-10
3.672E-04	0.999971	2.077E-10
3.819E-04	0.999995	2.337E-10
3.993E-04	1.000018	2.671E-10

4.203E-04	1.000041	3.116E-10
4.467E-04	1.000061	3.739E-10
4.811E-04	1.000080	4.674E-10
5.296E-04	1.000095	6.232E-10
6.062E-04	1.000105	9.348E-10
7.637E-04	1.000105	1.870E-09
7.910E-04	1.000104	2.077E-09
8.227E-04	1.000102	2.337E-09
8.601E-04	1.000100	2.671E-09
9.055E-04	1.000097	3.116E-09
9.622E-04	1.000094	3.739E-09
1.037E-03	1.000089	4.674E-09
1.141E-03	1.000083	6.232E-09
1.306E-03	1.000075	9.348E-09
1.645E-03	1.000062	1.870E-08
1.704E-03	1.000060	2.077E-08
1.772E-03	1.000058	2.337E-08
1.853E-03	1.000056	2.671E-08
1.951E-03	1.000053	3.116E-08
2.073E-03	1.000050	3.739E-08
2.233E-03	1.000047	4.674E-08
2.458E-03	1.000043	6.232E-08
2.814E-03	1.000038	9.349E-08
3.545E-03	1.000030	1.870E-07
3.672E-03	1.000029	2.078E-07
3.819E-03	1.000028	2.338E-07
3.993E-03	1.000027	2.672E-07
4.204E-03	1.000025	3.118E-07
4.467E-03	1.000024	3.742E-07
4.812E-03	1.000022	4.678E-07
5.297E-03	1.000020	6.239E-07
6.065E-03	1.000018	9.364E-07
7.646E-03	1.000014	1.876E-06

AMMONIUM CHLORIDE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.713E-05	0.811928	3.116E-12
9.949E-05	0.827185	3.400E-12
1.022E-04	0.842393	3.740E-12
1.054E-04	0.857723	4.155E-12
1.089E-04	0.873551	4.674E-12
1.132E-04	0.889523	5.342E-12
1.185E-04	0.905537	6.232E-12
1.252E-04	0.921437	7.479E-12
1.341E-04	0.937355	9.349E-12
1.385E-04	0.943674	1.039E-11
1.437E-04	0.949991	1.169E-11
1.499E-04	0.956308	1.335E-11
1.574E-04	0.962579	1.558E-11
1.668E-04	0.968825	1.870E-11
1.725E-04	0.971972	2.077E-11
1.792E-04	0.975092	2.337E-11
1.871E-04	0.978219	2.671E-11
1.967E-04	0.981333	3.116E-11
2.087E-04	0.984443	3.739E-11
2.245E-04	0.987573	4.674E-11
2.458E-04	0.990687	6.232E-11
2.821E-04	0.993822	9.348E-11
3.550E-04	0.996968	1.870E-10
3.676E-04	0.997267	2.077E-10
3.823E-04	0.997570	2.337E-10
3.996E-04	0.997878	2.671E-10
4.206E-04	0.998190	3.116E-10
4.469E-04	0.998506	3.739E-10
4.814E-04	0.998825	4.674E-10
5.298E-04	0.999146	6.232E-10
6.053E-04	0.999467	9.348E-10
7.638E-04	0.999783	1.870E-09
7.911E-04	0.999814	2.077E-09
8.228E-04	0.999844	2.337E-09
8.602E-04	0.999874	2.671E-09

5.056E-04	0.999994	3.116E-09
5.623E-04	0.999992	3.739E-09
1.037E-03	0.999960	4.674E-09
1.141E-03	0.999986	6.232E-09
1.306E-03	1.000010	9.348E-09
1.545E-03	1.000029	1.870E-08
1.704E-03	1.000031	2.077E-08
1.772E-03	1.000032	2.337E-08
1.853E-03	1.000033	2.671E-08
1.951E-03	1.000034	3.116E-08
2.073E-03	1.000034	3.739E-08
2.233E-03	1.000034	4.674E-08
2.458E-03	1.000033	6.232E-08
2.814E-03	1.000031	9.348E-08
3.545E-03	1.000027	1.870E-07
3.672E-03	1.000026	2.077E-07
3.819E-03	1.000025	2.337E-07
3.992E-03	1.000024	2.671E-07
4.203E-03	1.000023	3.116E-07
4.466E-03	1.000022	3.739E-07
4.811E-03	1.000021	4.674E-07
5.295E-03	1.000019	6.232E-07
6.062E-03	1.000017	9.349E-07
7.638E-03	1.000014	1.870E-06
7.911E-03	1.000013	2.078E-06
8.228E-03	1.000013	2.338E-06
8.603E-03	1.000012	2.672E-06
9.056E-03	1.000012	3.118E-06
9.624E-03	1.000011	3.742E-06
1.037E-02	1.000010	4.678E-06
1.141E-02	1.000009	6.239E-06
1.307E-02	1.000008	9.364E-06
1.647E-02	1.000006	1.876E-05

AMMONIUM CHLORIDE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.[illegible]E-04	0.811436	3.116E-11
2.14[illegible]E-04	0.826696	3.400E-11
2.[illegible]E-04	0.841909	3.740E-11
2.2[illegible]E-04	0.857246	4.155E-11
2.3[illegible]E-04	0.873082	4.674E-11
2.43[illegible]E-04	0.889064	5.342E-11
2.55[illegible]E-04	0.905142	6.232E-11
2.697E-04	0.921009	7.479E-11
2.8[illegible]E-04	0.936949	9.348E-11
2.[illegible]E-04	0.943278	1.039E-10
3.0[illegible]E-04	0.949608	1.169E-10
3.22[illegible]E-04	0.955938	1.335E-10
3.[illegible]E-04	0.962225	1.558E-10
3.59[illegible]E-04	0.968489	1.870E-10
3.717E-04	0.971646	2.077E-10
3.850E-04	0.974777	2.337E-10
4.031E-04	0.977917	2.671E-10
4.2[illegible]E-04	0.981045	3.116E-10
4.4[illegible]E-04	0.984171	3.739E-10
4.83[illegible]E-04	0.987319	4.674E-10
5.317E-04	0.990456	5.232E-10
6.078E-04	0.993619	9.348E-10
7.648E-04	0.996836	1.870E-09
7.920E-04	0.997113	2.077E-09
8.236E-04	0.997429	2.337E-09
8.610E-04	0.997734	2.671E-09
9.062E-04	0.998054	3.116E-09
9.629E-04	0.998377	3.739E-09
1.037E-03	0.998705	4.674E-09
1.141E-03	0.999033	6.232E-09
1.30[illegible]E-03	0.999372	9.348E-09
1.64[illegible]E-03	0.999708	1.870E-08
1.734E-03	0.999741	2.077E-08
1.773E-03	0.999774	2.337E-08
1.358E-03	0.999807	2.671E-08

NOT REPRODUCIBLE

1.951E-03	0.999840	3.116E-08
2.078E-03	0.999872	3.739E-08
3.234E-03	0.999904	4.674E-08
4.455E-03	0.999936	6.232E-08
5.811E-03	0.999966	9.347E-08
7.565E-03	0.999994	1.869E-07
8.972E-03	0.999997	2.077E-07
9.314E-03	0.999999	2.337E-07
9.992E-03	1.000002	2.671E-07
1.203E-02	1.000004	3.116E-07
1.466E-02	1.000006	3.739E-07
1.811E-02	1.000008	4.674E-07
2.295E-02	1.000009	6.232E-07
3.052E-02	1.000011	9.347E-07
4.537E-02	1.000010	1.869E-06
7.919E-02	1.000010	2.077E-06
8.227E-02	1.000010	2.337E-06
8.601E-02	1.000010	2.671E-06
9.055E-02	1.000010	3.116E-06
9.622E-02	1.000009	3.739E-06
1.037E-01	1.000009	4.674E-06
1.141E-01	1.000008	6.232E-06
1.306E-01	1.000008	9.349E-06
1.646E-01	1.000006	1.870E-05
1.704E-01	1.000006	2.078E-05
1.774E-01	1.000006	2.338E-05
1.853E-01	1.000006	2.672E-05
1.951E-01	1.000005	3.117E-05
2.073E-01	1.000005	3.741E-05
2.234E-01	1.000005	4.678E-05
2.459E-01	1.000004	6.239E-05
2.815E-01	1.000004	9.364E-05
3.549E-01	1.000003	1.876E-04

AMMONIUM CHLORIDE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.590E-04	0.811207	3.116E-10
4.618E-04	0.826469	3.739E-10
4.743E-04	0.841684	3.739E-10
4.886E-04	0.857024	4.155E-10
5.055E-04	0.872864	4.674E-10
5.259E-04	0.888851	5.342E-10
5.501E-04	0.904935	6.232E-10
5.811E-04	0.920811	7.479E-10
6.222E-04	0.936761	9.348E-10
6.429E-04	0.943095	1.039E-09
6.570E-04	0.949430	1.168E-09
6.955E-04	0.955766	1.335E-09
7.303E-04	0.962061	1.558E-09
7.741E-04	0.968333	1.870E-09
8.307E-04	0.974695	2.077E-09
8.817E-04	0.974631	2.337E-09
8.584E-04	0.977777	2.671E-09
9.129E-04	0.980912	3.116E-09
9.683E-04	0.984045	3.739E-09
1.042E-03	0.987201	4.674E-09
1.146E-03	0.990348	6.232E-09
1.310E-03	0.993524	9.348E-09
1.548E-03	0.996731	1.870E-08
1.706E-03	0.997038	2.077E-08
1.774E-03	0.997350	2.337E-08
1.855E-03	0.997653	2.671E-08
1.952E-03	0.997940	3.116E-08
2.074E-03	0.998313	3.739E-08
2.234E-03	0.998650	4.674E-08
2.443E-03	0.998957	6.232E-08
2.714E-03	0.999223	9.348E-08
3.098E-03	0.999573	1.869E-07
3.672E-03	0.999707	2.077E-07
3.814E-03	0.999742	2.337E-07
3.977E-03	0.999776	2.671E-07

4.2[illegible]E-03	0.999810	3.116E-07
4.466E-03	0.999845	3.739E-07
4.811E-03	0.999879	4.674E-07
5.295E-03	0.999912	6.232E-07
6.063E-03	0.999946	9.347E-07
7.337E-03	0.999973	1.869E-06
7.911E-03	0.999981	2.077E-06
8.227E-03	0.999984	2.337E-06
8.601E-03	0.999987	2.671E-06
9.055E-03	0.999990	3.116E-06
9.622E-03	0.999993	3.739E-06
1.037E-02	0.999996	4.674E-06
1.141E-02	0.999999	6.231E-06
1.306E-02	1.000001	9.347E-06
1.545E-02	1.000003	1.869E-05
1.704E-02	1.000003	2.077E-05
1.772E-02	1.000003	2.337E-05
1.853E-02	1.000003	2.671E-05
1.951E-02	1.000003	3.116E-05
2.073E-02	1.000003	3.739E-05
2.233E-02	1.000003	4.674E-05
2.458E-02	1.000003	6.232E-05
2.814E-02	1.000003	9.348E-05
3.545E-02	1.000003	1.870E-04
3.672E-02	1.000003	2.078E-04
3.819E-02	1.000003	2.338E-04
3.993E-02	1.000002	2.672E-04
4.204E-02	1.000002	3.117E-04
4.467E-02	1.000002	3.741E-04
4.812E-02	1.000002	4.678E-04
5.297E-02	1.000002	6.239E-04
6.055E-02	1.000002	9.363E-04
7.548E-02	1.000001	1.876E-03

AMMONIUM CHLORIDE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.713E-04	0.811101	3.116E-09
9.949E-04	0.826364	3.399E-09
1.022E-03	0.841580	3.739E-09
1.053E-03	0.856922	4.155E-09
1.089E-03	0.872763	4.674E-09
1.132E-03	0.888752	5.342E-09
1.185E-03	0.904839	6.232E-09
1.252E-03	0.920718	7.478E-09
1.341E-03	0.936673	9.348E-09
1.335E-03	0.943010	1.039E-08
1.457E-03	0.949348	1.168E-08
1.479E-03	0.955687	1.335E-08
1.573E-03	0.961985	1.558E-08
1.668E-03	0.968261	1.870E-08
1.725E-03	0.971425	2.077E-08
1.792E-03	0.974563	2.337E-08
1.871E-03	0.977712	2.671E-08
1.967E-03	0.980849	3.116E-08
2.087E-03	0.983986	3.739E-08
2.245E-03	0.987146	4.674E-08
2.468E-03	0.990298	6.232E-08
2.821E-03	0.993481	9.347E-08
3.550E-03	0.996696	1.869E-07
3.676E-03	0.997004	2.077E-07
3.823E-03	0.997318	2.337E-07
3.996E-03	0.997637	2.671E-07
4.206E-03	0.997961	3.116E-07
4.469E-03	0.998290	3.739E-07
4.814E-03	0.998624	4.674E-07
5.297E-03	0.998964	6.231E-07
6.063E-03	0.999308	9.347E-07
7.538E-03	0.999656	1.869E-06
7.911E-03	0.999692	2.077E-06
8.228E-03	0.999727	2.337E-06
8.602E-03	0.999762	2.671E-06

9.055E-03	0.999797	3.116E-06
9.623E-03	0.999832	3.739E-06
1.037E-02	0.999867	4.674E-06
1.141E-02	0.999902	6.231E-06
1.306E-02	0.999936	9.347E-06
1.645E-02	0.999971	1.869E-05
1.704E-02	0.999974	2.077E-05
1.772E-02	0.999977	2.337E-05
1.853E-02	0.999981	2.671E-05
1.951E-02	0.999984	3.116E-05
2.073E-02	0.999987	3.739E-05
2.233E-02	0.999990	4.673E-05
2.458E-02	0.999994	6.231E-05
2.813E-02	0.999997	9.347E-05
3.545E-02	0.999999	1.869E-04
3.671E-02	1.000000	2.077E-04
3.819E-02	1.000000	2.337E-04
3.992E-02	1.000000	2.671E-04
4.203E-02	1.000000	3.116E-04
4.460E-02	1.000001	3.739E-04
4.811E-02	1.000001	4.674E-04
5.295E-02	1.000001	6.232E-04
6.062E-02	1.000001	9.348E-04
7.638E-02	1.000001	1.870E-03
7.911E-02	1.000001	2.078E-03
8.228E-02	1.000001	2.338E-03
8.602E-02	1.000001	2.672E-03
9.056E-02	1.000001	3.117E-03
9.624E-02	1.000001	3.741E-03
1.037E-01	1.000001	4.677E-03
1.141E-01	1.000001	6.238E-03
1.307E-01	1.000001	9.363E-03
1.647E-01	1.000001	1.876E-02

AMMONIUM CHLORIDE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.093E-03	0.811052	3.116E-08
2.143E-03	0.826315	3.399E-08
2.201E-03	0.841532	3.739E-08
2.268E-03	0.856874	4.155E-08
2.346E-03	0.872716	4.674E-08
2.439E-03	0.888707	5.342E-08
2.553E-03	0.904794	6.232E-08
2.697E-03	0.920676	7.478E-08
2.883E-03	0.936633	9.348E-08
2.984E-03	0.942970	1.039E-07
3.096E-03	0.949309	1.168E-07
3.228E-03	0.955650	1.335E-07
3.390E-03	0.961949	1.558E-07
3.593E-03	0.968227	1.869E-07
3.717E-03	0.971392	2.077E-07
3.860E-03	0.974532	2.337E-07
4.031E-03	0.977632	2.671E-07
4.237E-03	0.980821	3.116E-07
4.497E-03	0.983959	3.739E-07
4.838E-03	0.987121	4.674E-07
5.317E-03	0.990275	6.232E-07
6.078E-03	0.993460	9.347E-07
7.648E-03	0.996690	1.869E-06
7.920E-03	0.996989	2.077E-06
8.236E-03	0.997303	2.337E-06
8.610E-03	0.997622	2.671E-06
9.062E-03	0.997947	3.116E-06
9.629E-03	0.998277	3.739E-06
1.037E-02	0.998612	4.674E-06
1.141E-02	0.998953	6.231E-06
1.306E-02	0.999298	9.347E-06
1.646E-02	0.999649	1.869E-05
1.704E-02	0.999684	2.077E-05
1.773E-02	0.999720	2.337E-05
1.853E-02	0.999755	2.671E-05

1.951E-02	C.999790	3.116E-05
2.078E-02	C.999826	3.739E-05
2.233E-02	0.999861	4.673E-05
2.458E-02	C.999897	6.231E-05
2.814E-02	0.999932	9.347E-05
3.545E-02	C.999967	1.869E-04
3.671E-02	C.999971	2.077E-04
3.818E-02	C.999974	2.337E-04
3.992E-02	0.999977	2.670E-04
4.203E-02	0.999981	3.116E-04
4.466E-02	C.999984	3.739E-04
4.811E-02	C.999988	4.673E-04
5.295E-02	0.999991	6.231E-04
6.061E-02	0.999995	9.347E-04
7.637E-02	0.999998	1.869E-03
7.910E-02	0.999998	2.077E-03
8.227E-02	C.999998	2.337E-03
8.601E-02	0.999999	2.671E-03
9.055E-02	C.999999	3.116E-03
9.622E-02	0.999999	3.739E-03
1.037E-01	1.000000	4.674E-03
1.141E-01	1.000000	6.232E-03
1.306E-01	1.000000	9.348E-03
1.645E-01	1.000000	1.870E-02
1.704E-01	1.000000	2.078E-02
1.773E-01	1.000000	2.338E-02
1.853E-01	1.000000	2.672E-02
1.951E-01	1.000000	3.117E-02
2.073E-01	1.000000	3.741E-02
2.234E-01	1.000000	4.677E-02
2.459E-01	1.000000	6.238E-02
2.815E-01	1.000000	9.363E-02
3.549E-01	1.000000	1.876E-01

AMMONIUM CHLORIDE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.508E-03	0.811029	3.116E-07
4.618E-03	0.826292	3.399E-07
4.743E-03	0.841509	3.739E-07
4.886E-03	0.856852	4.154E-07
5.055E-03	0.872694	4.674E-07
5.255E-03	0.888685	5.341E-07
5.501E-03	0.904774	6.232E-07
5.811E-03	0.920656	7.478E-07
6.222E-03	0.936614	9.347E-07
6.429E-03	0.942952	1.039E-06
6.669E-03	0.949292	1.168E-06
6.955E-03	0.955633	1.335E-06
7.303E-03	0.961933	1.558E-06
7.741E-03	0.968212	1.869E-06
8.007E-03	0.971377	2.077E-06
8.317E-03	0.974517	2.337E-06
8.684E-03	0.977668	2.671E-06
9.129E-03	0.980807	3.116E-06
9.688E-03	0.983946	3.739E-06
1.042E-02	0.987109	4.674E-06
1.146E-02	0.990264	6.231E-06
1.310E-02	0.993451	9.347E-06
1.648E-02	0.996672	1.869E-05
1.706E-02	0.996981	2.077E-05
1.774E-02	0.997296	2.337E-05
1.855E-02	0.997615	2.671E-05
1.952E-02	0.997941	3.116E-05
2.074E-02	0.998271	3.739E-05
2.234E-02	0.998607	4.673E-05
2.459E-02	0.998948	6.231E-05
2.814E-02	0.999294	9.347E-05
3.545E-02	0.999645	1.869E-04
3.672E-02	0.999681	2.077E-04
3.819E-02	0.999716	2.337E-04
3.993E-02	0.999752	2.670E-04

4.203E-02	0.999787	3.116E-04
4.466E-02	0.999823	3.739E-04
4.811E-02	0.999859	4.673E-04
5.295E-02	0.999894	6.231E-04
6.062E-02	0.999930	9.347E-04
7.637E-02	0.999965	1.869E-03
7.910E-02	0.999969	2.077E-03
8.227E-02	0.999972	2.337E-03
8.601E-02	0.999976	2.670E-03
9.055E-02	0.999980	3.116E-03
9.622E-02	0.999983	3.739E-03
1.036E-01	0.999987	4.673E-03
1.141E-01	0.999990	6.231E-03
1.306E-01	0.999994	9.347E-03
1.645E-01	0.999997	1.869E-02
1.704E-01	0.999997	2.077E-02
1.772E-01	0.999998	2.337E-02
1.853E-01	0.999998	2.670E-02
1.951E-01	0.999998	3.116E-02
2.073E-01	0.999999	3.739E-02
2.233E-01	0.999999	4.674E-02
2.458E-01	0.999999	6.232E-02
2.814E-01	1.000000	9.348E-02
3.545E-01	1.000000	1.870E-01
3.672E-01	1.000000	2.078E-01
3.819E-01	1.000000	2.338E-01
3.993E-01	1.000000	2.672E-01
4.203E-01	1.000000	3.117E-01
4.467E-01	1.000000	3.741E-01
4.812E-01	1.000000	4.677E-01
5.297E-01	1.000000	6.238E-01
6.065E-01	1.000000	9.363E-01
7.646E-01	1.000000	1.876E 00

AMMONIUM CHLORIDE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.713E-03	0.811018	3.116E-06
9.949E-03	0.826282	3.399E-06
1.022E-02	0.841499	3.739E-06
1.053E-02	0.856842	4.154E-06
1.089E-02	0.872684	4.674E-06
1.132E-02	0.888675	5.341E-06
1.185E-02	0.904764	6.231E-06
1.252E-02	0.920647	7.478E-06
1.341E-02	0.936605	9.347E-06
1.335E-02	0.942943	1.039E-05
1.437E-02	0.949283	1.168E-05
1.498E-02	0.955625	1.335E-05
1.573E-02	0.961925	1.558E-05
1.668E-02	0.968204	1.869E-05
1.725E-02	0.971370	2.077E-05
1.792E-02	0.974511	2.337E-05
1.871E-02	0.977661	2.671E-05
1.967E-02	0.980801	3.116E-05
2.087E-02	0.983940	3.739E-05
2.245E-02	0.987104	4.673E-05
2.468E-02	0.990259	6.231E-05
2.821E-02	0.993446	9.347E-05
3.550E-02	0.996669	1.869E-04
3.676E-02	0.996978	2.077E-04
3.823E-02	0.997292	2.337E-04
3.996E-02	0.997612	2.670E-04
4.206E-02	0.997938	3.116E-04
4.469E-02	0.998268	3.739E-04
4.814E-02	0.998604	4.673E-04
5.297E-02	0.998945	6.231E-04
6.063E-02	0.999292	9.347E-04
7.638E-02	0.999644	1.869E-03
7.911E-02	0.999679	2.077E-03
8.227E-02	0.999715	2.337E-03
8.602E-02	0.999750	2.670E-03

5.055E-02	0.999786	3.115E-03
5.622E-02	0.999822	3.739E-03
1.037E-01	0.999857	4.673E-03
1.141E-01	0.999893	6.231E-03
1.306E-01	0.999929	9.346E-03
1.645E-01	0.999965	1.869E-02
1.704E-01	0.999968	2.077E-02
1.772E-01	0.999972	2.337E-02
1.953E-01	0.999975	2.670E-02
1.951E-01	0.999979	3.115E-02
2.073E-01	0.999983	3.739E-02
2.233E-01	0.999986	4.673E-02
2.458E-01	0.999990	6.231E-02
2.813E-01	0.999993	9.346E-02
3.545E-01	0.999997	1.869E-01
3.671E-01	0.999997	2.077E-01
3.818E-01	0.999997	2.337E-01
3.992E-01	0.999998	2.670E-01
4.203E-01	0.999998	3.116E-01
4.460E-01	0.999998	3.739E-01
4.811E-01	0.999999	4.673E-01
5.295E-01	0.999999	6.231E-01
6.062E-01	0.999999	9.348E-01
7.638E-01	1.000000	1.870E 00
7.911E-01	1.000000	2.078E 00
8.228E-01	1.000000	2.338E 00
8.602E-01	1.000000	2.672E 00
9.056E-01	1.000000	3.117E 00
9.624E-01	1.000000	3.741E 00
1.037E 00	1.000000	4.677E 00
1.141E 00	1.000000	6.238E 00
1.307E 00	1.000000	9.363E 00
1.647E 00	1.000000	1.876E 01

AMMONIUM CHLORIDE

PERCENTAGE	MOLALITY	DENSITY
0.24	5.903	1.0674
0.22	5.272	1.0621
0.20	4.673	1.0567
0.18	4.103	1.0512
0.16	3.560	1.0457
0.14	3.043	1.0401
0.12	2.549	1.0344
0.10	2.077	1.0286
0.08	1.625	1.0227
0.06	1.193	1.0168
0.04	0.779	1.0107
0.02	0.381	1.0045
0.01	0.189	1.0013
0.00	0.000	1.0000

(3) MAGNESIUM CHLORIDE

MAGNESIUM CHLORIDE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
95.23	2.325	3.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.3157E-05	2.1735E-06
1.00E-15	6.1071E-05	4.6827E-06
1.00E-14	2.8347E-04	1.0089E-05
1.00E-13	1.3157E-03	2.1735E-05
1.00E-12	6.1071E-03	4.6827E-05
1.00E-11	2.8347E-02	1.0089E-04
1.00E-10	1.3157E-01	2.1735E-04
1.00E-09	6.1071E-01	4.6827E-04
1.00E-08	2.8347E 00	1.0089E-03
1.00E-07	1.3157E 01	2.1735E-03
1.00E-06	6.1071E 01	4.6827E-03

MAGNESIUM CHLORIDE
(TWO-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
5.0000	0.43883	14.19689
4.5000	0.50823	11.93611
4.0000	0.57585	10.05534
3.5000	0.65165	8.47821
3.0000	0.72189	7.12858
2.5000	0.78815	5.96826
2.0000	0.84822	4.96659
1.8000	0.86579	4.61652
1.6000	0.89005	4.28575
1.4000	0.90879	3.97925
1.2000	0.92609	3.69193
1.0000	0.94188	3.42554
0.9000	0.94924	3.29816
0.8000	0.95620	3.17866
0.7000	0.96273	3.06993
0.6000	0.96885	2.97483
0.5000	0.97473	2.87766
0.4000	0.98033	2.78457
0.3000	0.98559	2.70458
0.2000	0.99057	2.64351
0.1000	0.99536	2.58902
0.0900	0.99575	2.63029
0.0800	0.99616	2.67153
0.0700	0.99659	2.71273
0.0600	0.99703	2.75389
0.0500	0.99749	2.79501
0.0400	0.99796	2.83609
0.0300	0.99845	2.87712
0.0200	0.99895	2.91811
0.0100	0.99947	2.95906
0.0090	0.99952	2.96317
0.0080	0.99957	2.96727
0.0070	0.99963	2.97134
0.0060	0.99968	2.97544
0.0050	0.99973	2.97950

0.0040	C.99979	2.98360
0.0030	0.99984	2.98765
0.0020	0.99989	2.99176
0.0019	0.99990	2.99203
0.0018	0.99990	2.99256
0.0017	0.99991	2.99291
0.0016	0.99991	2.99330
0.0015	0.99992	2.99375
0.0014	0.99992	2.99427
0.0013	0.99993	2.99455
0.0012	0.99994	2.99488
0.0011	0.99994	2.99527
0.0010	0.99995	2.99574
0.0009	0.99995	2.99537
0.0008	C.99996	2.99654
0.0007	0.99996	2.99682
0.0006	0.99997	2.99720
0.0005	0.99997	2.99774
0.0004	0.99998	2.99753
0.0003	0.99998	2.99855
0.0002	0.99999	2.99855
0.0001	C.99999	2.99859

MAGNESIUM CHLORIDE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.833E-06	0.450603	2.101E-16
3.962E-06	0.521476	2.335E-16
4.107E-06	0.594484	2.627E-16
4.279E-06	0.667493	3.002E-16
4.478E-06	0.738684	3.502E-16
4.750E-06	0.805547	4.202E-16
5.095E-06	0.865741	5.253E-16
5.268E-06	0.887203	5.836E-16
5.468E-06	0.907240	6.566E-16
5.707E-06	0.925641	7.504E-16
5.936E-06	0.942454	8.754E-16
6.359E-06	0.957597	1.050E-15
6.579E-06	0.964565	1.167E-15
6.836E-06	0.971067	1.313E-15
7.139E-06	0.977076	1.501E-15
7.508E-06	0.982587	1.751E-15
7.969E-06	0.987756	2.101E-15
8.575E-06	0.992518	2.626E-15
9.428E-06	0.996746	3.502E-15
1.078E-05	1.000373	5.252E-15
1.357E-05	1.003190	1.050E-14
1.405E-05	1.003319	1.167E-14
1.461E-05	1.003442	1.313E-14
1.527E-05	1.003555	1.501E-14
1.608E-05	1.003651	1.751E-14
1.708E-05	1.003721	2.101E-14
1.840E-05	1.003743	2.626E-14
2.025E-05	1.003709	3.501E-14
2.318E-05	1.003548	5.252E-14
2.920E-05	1.003113	1.050E-13
3.024E-05	1.003044	1.167E-13
3.145E-05	1.002961	1.313E-13
3.288E-05	1.002867	1.501E-13
3.462E-05	1.002757	1.751E-13
3.678E-05	1.002629	2.101E-13

3.962E-05	1.002475	2.626E-13
4.361E-05	1.002292	3.501E-13
4.992E-05	1.002027	5.252E-13
6.290E-05	1.001640	1.050E-12
6.514E-05	1.001587	1.167E-12
6.775E-05	1.001529	1.313E-12
7.084E-05	1.001466	1.501E-12
7.457E-05	1.001396	1.751E-12
7.924E-05	1.001317	2.101E-12
8.536E-05	1.001226	2.626E-12
9.395E-05	1.001117	3.501E-12
1.075E-04	1.000979	5.252E-12
1.355E-04	1.000781	1.050E-11
1.403E-04	1.000754	1.167E-11
1.460E-04	1.000725	1.313E-11
1.526E-04	1.000694	1.501E-11
1.607E-04	1.000660	1.751E-11
1.707E-04	1.000621	2.101E-11
1.839E-04	1.000577	2.626E-11
2.024E-04	1.000524	3.502E-11
2.317E-04	1.000458	5.253E-11
2.920E-04	1.000364	1.051E-10
3.024E-04	1.000352	1.168E-10
3.145E-04	1.000338	1.314E-10
3.288E-04	1.000323	1.501E-10
3.462E-04	1.000307	1.752E-10
3.679E-04	1.000289	2.102E-10
3.963E-04	1.000268	2.628E-10
4.363E-04	1.000244	3.505E-10
4.995E-04	1.000213	5.261E-10
6.297E-04	1.000169	1.054E-09

MAGNESIUM CHLORIDE
(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.268E-06	0.444258	2.101E-15
8.537E-06	0.514335	2.335E-15
8.849E-06	0.586598	2.626E-15
9.219E-06	0.658956	3.002E-15
9.669E-06	0.729635	3.502E-15
1.023E-05	0.796178	4.202E-15
1.098E-05	0.856306	5.253E-15
1.135E-05	0.877832	5.836E-15
1.178E-05	0.897989	6.566E-15
1.229E-05	0.916575	7.503E-15
1.292E-05	0.933649	8.754E-15
1.370E-05	0.949141	1.050E-14
1.417E-05	0.956323	1.167E-14
1.473E-05	0.963070	1.313E-14
1.538E-05	0.969363	1.501E-14
1.617E-05	0.975200	1.751E-14
1.717E-05	0.980762	2.101E-14
1.848E-05	0.985568	2.626E-14
2.031E-05	0.990755	3.501E-14
2.322E-05	0.995106	5.252E-14
2.923E-05	0.998985	1.050E-13
3.027E-05	0.999258	1.167E-13
3.148E-05	0.999536	1.313E-13
3.291E-05	0.999817	1.501E-13
3.464E-05	1.000099	1.751E-13
3.680E-05	1.000376	2.101E-13
3.964E-05	1.000643	2.626E-13
4.362E-05	1.000886	3.501E-13
4.998E-05	1.001091	5.252E-13
6.240E-05	1.001160	1.050E-12
6.515E-05	1.001154	1.167E-12
6.776E-05	1.001144	1.313E-12
7.084E-05	1.001129	1.501E-12
7.458E-05	1.001106	1.751E-12
7.925E-05	1.001075	2.101E-12

8.537E-05	1.001033	2.626E-12
9.396E-05	1.000972	3.501E-12
1.076E-04	1.000882	5.252E-12
1.355E-04	1.000732	1.050E-11
1.403E-04	1.000710	1.167E-11
1.460E-04	1.000686	1.313E-11
1.526E-04	1.000660	1.501E-11
1.607E-04	1.000630	1.751E-11
1.707E-04	1.000597	2.101E-11
1.839E-04	1.000557	2.626E-11
2.024E-04	1.000510	3.501E-11
2.317E-04	1.000449	5.252E-11
2.919E-04	1.000359	1.050E-10
3.024E-04	1.000347	1.167E-10
3.145E-04	1.000334	1.313E-10
3.288E-04	1.000320	1.501E-10
3.461E-04	1.000304	1.751E-10
3.678E-04	1.000287	2.101E-10
3.962E-04	1.000267	2.626E-10
4.361E-04	1.000243	3.502E-10
4.992E-04	1.000212	5.253E-10
6.290E-04	1.000169	1.051E-09
6.515E-04	1.000163	1.167E-09
6.776E-04	1.000157	1.313E-09
7.085E-04	1.000150	1.501E-09
7.458E-04	1.000142	1.752E-09
7.926E-04	1.000134	2.102E-09
8.539E-04	1.000124	2.628E-09
9.399E-04	1.000113	3.505E-09
1.076E-03	1.000099	5.261E-09
1.357E-03	1.000078	1.054E-08

MAGNESIUM CHLORIDE
(CRYSTAL MASS = 1.00E-14 GM . TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.781E-05	0.441343	2.101E-14
1.839E-05	0.511054	2.335E-14
1.906E-05	0.582973	2.626E-14
1.986E-05	0.655031	3.002E-14
2.083E-05	0.725473	3.502E-14
2.205E-05	0.791867	4.202E-14
2.365E-05	0.851962	5.252E-14
2.445E-05	0.873515	5.836E-14
2.538E-05	0.893727	6.565E-14
2.649E-05	0.912397	7.503E-14
2.783E-05	0.929590	8.754E-14
2.951E-05	0.945242	1.050E-13
3.054E-05	0.952521	1.167E-13
3.173E-05	0.959381	1.313E-13
3.314E-05	0.965803	1.501E-13
3.485E-05	0.971791	1.751E-13
3.699E-05	0.977523	2.101E-13
3.980E-05	0.982943	2.626E-13
4.376E-05	0.987986	3.501E-13
5.004E-05	0.992670	5.252E-13
6.297E-05	0.997040	1.050E-12
6.521E-05	0.997379	1.167E-12
6.781E-05	0.997723	1.313E-12
7.089E-05	0.998087	1.501E-12
7.462E-05	0.998455	1.751E-12
7.929E-05	0.998823	2.101E-12
8.540E-05	0.999205	2.626E-12
9.399E-05	0.999579	3.501E-12
1.076E-04	0.999939	5.252E-12
1.350E-04	1.000253	1.050E-11
1.404E-04	1.000278	1.167E-11
1.460E-04	1.000302	1.313E-11
1.526E-04	1.000323	1.501E-11
1.607E-04	1.000341	1.751E-11
1.707E-04	1.000355	2.101E-11

1.439E-04	1.000364	2.626E-11
2.024E-04	1.000364	3.501E-11
2.817E-04	1.000352	5.252E-11
2.919E-04	1.000311	1.050E-10
3.024E-04	1.000304	1.167E-10
3.145E-04	1.000295	1.313E-10
3.283E-04	1.000286	1.500E-10
3.461E-04	1.000275	1.751E-10
3.678E-04	1.000262	2.101E-10
3.962E-04	1.000247	2.626E-10
4.361E-04	1.000228	3.501E-10
4.992E-04	1.000202	5.252E-10
6.289E-04	1.000164	1.050E-09
6.514E-04	1.000159	1.167E-09
6.775E-04	1.000153	1.313E-09
7.083E-04	1.000147	1.501E-09
7.457E-04	1.000140	1.751E-09
7.924E-04	1.000132	2.101E-09
8.536E-04	1.000123	2.626E-09
9.395E-04	1.000112	3.501E-09
1.076E-03	1.000098	5.252E-09
1.355E-03	1.000078	1.051E-08
1.404E-03	1.000075	1.167E-08
1.460E-03	1.000072	1.313E-08
1.526E-03	1.000069	1.501E-08
1.607E-03	1.000066	1.752E-08
1.708E-03	1.000062	2.102E-08
1.840E-03	1.000058	2.628E-08
2.025E-03	1.000052	3.505E-08
2.319E-03	1.000046	5.261E-08
2.923E-03	1.000036	1.054E-07

MAGNESIUM CHLORIDE
(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.938E-05	0.439996	2.101E-13
3.962E-05	0.509538	2.335E-13
4.107E-05	0.581299	2.626E-13
4.279E-05	0.653218	3.001E-13
4.483E-05	0.723549	3.502E-13
4.750E-05	0.789874	4.202E-13
5.095E-05	0.849953	5.252E-13
5.257E-05	0.871519	5.836E-13
5.468E-05	0.891755	6.565E-13
5.706E-05	0.910465	7.503E-13
5.996E-05	0.927712	8.754E-13
6.359E-05	0.943437	1.050E-12
6.579E-05	0.950762	1.167E-12
6.836E-05	0.957673	1.313E-12
7.139E-05	0.964155	1.501E-12
7.508E-05	0.970212	1.751E-12
7.959E-05	0.976030	2.101E-12
8.573E-05	0.981541	2.626E-12
9.423E-05	0.986703	3.501E-12
1.078E-04	0.991542	5.252E-12
1.357E-04	0.996138	1.050E-11
1.405E-04	0.996508	1.167E-11
1.461E-04	0.996890	1.313E-11
1.527E-04	0.997295	1.501E-11
1.608E-04	0.997692	1.751E-11
1.708E-04	0.998110	2.101E-11
1.840E-04	0.998538	2.626E-11
2.025E-04	0.998972	3.501E-11
2.316E-04	0.999409	5.252E-11
2.920E-04	0.999832	1.050E-10
3.024E-04	0.999872	1.167E-10
3.145E-04	0.999911	1.313E-10
3.289E-04	0.999949	1.500E-10
3.461E-04	0.999986	1.751E-10
3.670E-04	1.000021	2.101E-10

3.962E-04	1.000C54	2.626E-10
4.361E-04	1.000C83	3.501E-10
4.992E-04	1.000105	5.252E-10
6.289E-04	1.000115	1.050E-09
6.514E-04	1.000115	1.167E-09
6.775E-04	1.000114	1.313E-09
7.083E-04	1.000112	1.500E-09
7.457E-04	1.000110	1.751E-09
7.924E-04	1.000107	2.101E-09
8.536E-04	1.000103	2.626E-09
9.395E-04	1.000097	3.501E-09
1.075E-03	1.000088	5.252E-09
1.355E-03	1.000073	1.050E-08
1.403E-03	1.000071	1.167E-08
1.460E-03	1.000069	1.313E-08
1.526E-03	1.000066	1.500E-08
1.607E-03	1.000063	1.751E-08
1.707E-03	1.000060	2.101E-08
1.839E-03	1.000056	2.626E-08
2.024E-03	1.000051	3.501E-08
2.317E-03	1.000045	5.252E-08
2.920E-03	1.000036	1.051E-07
3.024E-03	1.000035	1.167E-07
3.145E-03	1.000033	1.313E-07
3.288E-03	1.000032	1.501E-07
3.462E-03	1.000030	1.751E-07
3.679E-03	1.000029	2.102E-07
3.963E-03	1.000027	2.628E-07
4.362E-03	1.000024	3.505E-07
4.995E-03	1.000021	5.261E-07
6.257E-03	1.000017	1.054E-06

MAGNESIUM CHLORIDE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.263E-05	0.439373	2.101E-12
8.537E-05	0.508836	2.334E-12
8.849E-05	0.580523	2.626E-12
9.219E-05	0.652377	3.001E-12
9.668E-05	0.722658	3.502E-12
1.023E-04	0.788950	4.202E-12
1.098E-04	0.849022	5.252E-12
1.195E-04	0.900594	6.836E-12
1.178E-04	0.890842	6.565E-12
1.229E-04	0.909569	7.503E-12
1.292E-04	0.926841	8.753E-12
1.370E-04	0.942609	1.050E-11
1.417E-04	0.949946	1.167E-11
1.473E-04	0.956882	1.313E-11
1.538E-04	0.963391	1.501E-11
1.617E-04	0.969431	1.751E-11
1.717E-04	0.975336	2.101E-11
1.847E-04	0.980892	2.626E-11
2.031E-04	0.986109	3.501E-11
2.322E-04	0.991019	5.252E-11
2.923E-04	0.995720	1.050E-10
3.027E-04	0.996103	1.167E-10
3.148E-04	0.996501	1.313E-10
3.291E-04	0.996913	1.500E-10
3.464E-04	0.997338	1.751E-10
3.680E-04	0.997777	2.101E-10
3.964E-04	0.998228	2.626E-10
4.352E-04	0.998691	3.501E-10
4.993E-04	0.999163	5.252E-10
6.290E-04	0.999635	1.050E-09
6.515E-04	0.999693	1.167E-09
6.776E-04	0.999730	1.313E-09
7.084E-04	0.999776	1.500E-09
7.457E-04	0.999821	1.751E-09
7.922E-04	0.999866	2.101E-09

[NOT REPRODUCIBLE]

8.536E-04	C.999910	2.626E-09
9.395E-04	0.999952	3.501E-09
1.075E-03	C.999991	5.252E-09
1.355E-03	1.C00025	1.050E-08
1.403E-03	1.C00027	1.167E-08
1.460E-03	1.000030	1.313E-08
1.526E-03	1.000032	1.500E-08
1.607E-03	1.000034	1.750E-08
1.707E-03	1.000035	2.101E-08
1.833E-03	1.000036	2.626E-08
2.024E-03	1.000036	3.501E-08
2.317E-03	1.000035	5.251E-08
2.91[illegible]E-03	1.000031	1.050E-07
3.024E-03	1.000030	1.167E-07
3.165E-03	1.000030	1.313E-07
3.[illegible]E-03	1.000029	1.500E-07
3.[illegible]E-03	1.000028	1.751E-07
3.[illegible]E-03	1.000026	2.101E-07
3.[illegible]E-03	1.000025	2.626E-07
4.[illegible]E-03	1.000023	3.501E-07
4.[illegible]E-03	1.000021	5.252E-07
6.[illegible]E-03	1.000015	1.051E-06
6.[illegible]E-03	1.000016	1.167E-06
6.[illegible]E-03	1.000015	1.313E-06
7.[illegible]E-03	1.000015	1.501E-06
7.[illegible]E-03	1.000014	1.751E-06
7.[illegible]E-03	1.000013	2.102E-06
8.[illegible]E-03	1.000012	2.[illegible]E-06
9.[illegible]E-03	1.000011	3.505E-06
1.076E-02	1.000010	5.261E-06
1.[illegible]E-02	1.000008	1.054E-05

MAGNESIUM CHLORIDE
(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE =. 20C)

RADIUS(CM)	SATURATION RATIC	WATER GAINED(GM)
1.781E-04	0.439084	2.101E-11
1.839E-04	0.508510	2.334E-11
1.906E-04	0.580163	2.626E-11
1.986E-04	0.651988	3.001E-11
2.083E-04	0.722244	3.501E-11
2.205E-04	0.788522	4.202E-11
2.365E-04	0.848591	5.252E-11
2.445E-04	0.870165	5.836E-11
2.538E-04	0.890418	6.565E-11
2.649E-04	0.909154	7.503E-11
2.783E-04	0.926437	8.753E-11
2.951E-04	0.942212	1.050E-10
3.054E-04	0.949568	1.167E-10
3.173E-04	0.956514	1.313E-10
3.314E-04	0.963037	1.501E-10
3.485E-04	0.969141	1.751E-10
3.699E-04	0.975014	2.101E-10
3.980E-04	0.980590	2.626E-10
4.376E-04	0.985833	3.501E-10
5.003E-04	0.990776	5.252E-10
6.297E-04	0.995526	1.050E-09
6.521E-04	0.995916	1.167E-09
6.781E-04	0.996321	1.313E-09
7.089E-04	0.996740	1.500E-09
7.462E-04	0.997174	1.751E-09
7.929E-04	0.997623	2.101E-09
8.540E-04	0.998085	2.626E-09
9.498E-04	0.998561	3.501E-09
1.076E-03	0.999049	5.252E-09
1.355E-03	0.999546	1.050E-08
1.404E-03	0.999596	1.167E-08
1.460E-03	0.999645	1.313E-08
1.526E-03	0.999695	1.500E-08
1.607E-03	0.999745	1.750E-08
1.707E-03	0.999794	2.101E-08

1.839E-03	0.999843	2.626E-08
2.024E-03	0.999891	3.501E-08
2.317E-03	0.999938	5.251E-08
2.919E-03	0.999982	1.050E-07
3.024E-03	0.999987	1.167E-07
3.145E-03	0.999991	1.313E-07
3.288E-03	0.999995	1.500E-07
3.461E-03	0.999998	1.750E-07
3.678E-03	1.000002	2.101E-07
3.962E-03	1.000005	2.626E-07
4.361E-03	1.000008	3.501E-07
4.992E-03	1.000011	5.251E-07
6.289E-03	1.000012	1.050E-06
6.514E-03	1.000011	1.167E-06
6.775E-03	1.000011	1.313E-06
7.083E-03	1.000011	1.500E-06
7.457E-03	1.000011	1.751E-06
7.924E-03	1.000011	2.101E-06
8.536E-03	1.000010	2.626E-06
9.395E-03	1.000010	3.501E-06
1.075E-02	1.000009	5.252E-06
1.355E-02	1.000007	1.051E-05
1.404E-02	1.000007	1.167E-05
1.460E-02	1.000007	1.313E-05
1.526E-02	1.000007	1.501E-05
1.607E-02	1.000006	1.751E-05
1.708E-02	1.000006	2.102E-05
1.840E-02	1.000006	2.628E-05
2.025E-02	1.000005	3.505E-05
2.318E-02	1.000004	5.261E-05
2.923E-02	1.000004	1.054E-04

MAGNESIUM CHLORIDE
(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.838E-04	0.438950	2.101E-10
3.962E-04	0.508359	2.334E-10
4.107E-04	0.579996	2.626E-10
4.279E-04	0.651807	3.001E-10
4.488E-04	0.722053	3.501E-10
4.750E-04	0.788323	4.202E-10
5.095E-04	0.848390	5.252E-10
5.257E-04	0.869966	5.835E-10
5.458E-04	0.890221	6.565E-10
5.706E-04	0.909961	7.503E-10
5.996E-04	0.926250	8.753E-10
6.358E-04	0.942032	1.050E-09
6.579E-04	0.949392	1.167E-09
6.835E-04	0.956344	1.313E-09
7.139E-04	0.962872	1.500E-09
7.507E-04	0.968584	1.751E-09
7.969E-04	0.974864	2.101E-09
8.575E-04	0.980450	2.626E-09
9.427E-04	0.985705	3.501E-09
1.078E-03	0.990663	5.252E-09
1.357E-03	0.995436	1.050E-08
1.405E-03	0.995829	1.167E-08
1.461E-03	0.996237	1.313E-08
1.527E-03	0.996660	1.500E-08
1.609E-03	0.997098	1.750E-08
1.708E-03	0.997551	2.101E-08
1.833E-03	0.998018	2.626E-08
2.025E-03	0.998500	3.501E-08
2.318E-03	0.998996	5.251E-08
2.820E-03	0.999504	1.050E-07
3.024E-03	0.999555	1.167E-07
3.145E-03	0.999606	1.313E-07
3.289E-03	0.999658	1.500E-07
3.461E-03	0.999709	1.750E-07
3.678E-03	0.999761	2.101E-07

3.962E-03	0.999812	2.626E-07
4.391E-03	0.999863	3.501E-07
4.992E-03	0.999914	5.251E-07
6.289E-03	0.999963	1.050E-06
6.514E-03	0.999968	1.167E-06
6.775E-03	0.999973	1.313E-06
7.083E-03	0.999977	1.500E-06
7.457E-03	0.999982	1.750E-06
7.924E-03	0.999986	2.100E-06
8.536E-03	0.999991	2.626E-06
9.395E-03	0.999995	3.501E-06
1.075E-02	0.999999	5.251E-06
1.355E-02	1.000002	1.050E-05
1.403E-02	1.000003	1.167E-05
1.460E-02	1.000003	1.313E-05
1.526E-02	1.000003	1.500E-05
1.607E-02	1.000003	1.750E-05
1.707E-02	1.000004	2.101E-05
1.839E-02	1.000004	2.626E-05
2.024E-02	1.000004	3.501E-05
2.317E-02	1.000004	5.252E-05
2.919E-02	1.000003	1.051E-04
3.024E-02	1.000003	1.167E-04
3.145E-02	1.000003	1.313E-04
3.288E-02	1.000003	1.501E-04
3.462E-02	1.000003	1.751E-04
3.679E-02	1.000003	2.102E-04
3.963E-02	1.000002	2.628E-04
4.362E-02	1.000002	3.505E-04
4.995E-02	1.000002	5.260E-04
6.297E-02	1.000002	1.054E-03

MAGNESIUM CHLORIDE
(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.260E-04	0.438887	2.101E-09
8.536E-04	0.508289	2.334E-09
8.849E-04	0.579919	2.626E-09
9.219E-04	0.651723	3.001E-09
9.698E-04	0.721964	3.501E-09
1.023E-03	0.788231	4.201E-09
1.098E-03	0.848297	5.252E-09
1.135E-03	0.885874	5.835E-09
1.178E-03	0.890130	6.565E-09
1.229E-03	0.908872	7.502E-09
1.292E-03	0.926163	8.753E-09
1.370E-03	0.941949	1.050E-08
1.417E-03	0.949311	1.167E-08
1.473E-03	0.956265	1.313E-08
1.538E-03	0.962795	1.500E-08
1.617E-03	0.968911	1.751E-08
1.717E-03	0.974795	2.101E-08
1.847E-03	0.980396	2.626E-08
2.031E-03	0.985645	3.501E-08
2.322E-03	0.990611	5.251E-08
2.923E-03	0.995394	1.050E-07
3.027E-03	0.995789	1.167E-07
3.148E-03	0.996198	1.313E-07
3.290E-03	0.996623	1.500E-07
3.464E-03	0.997063	1.750E-07
3.680E-03	0.997518	2.101E-07
3.964E-03	0.997987	2.626E-07
4.362E-03	0.998472	3.501E-07
4.993E-03	0.998971	5.251E-07
6.240E-03	0.999484	1.050E-06
6.515E-03	0.999536	1.167E-06
6.779E-03	0.999588	1.313E-06
7.043E-03	0.999640	1.500E-06
7.457E-03	0.999693	1.750E-06
7.924E-03	0.999745	2.100E-06

8.536E-03	0.999798	2.626E-06
9.395E-03	0.999850	3.501E-06
1.075E-02	0.999902	5.251E-06
1.355E-02	0.999954	1.050E-05
1.403E-02	0.999959	1.167E-05
1.460E-02	0.999964	1.313E-05
1.526E-02	0.999969	1.500E-05
1.606E-02	0.999974	1.750E-05
1.707E-02	0.999979	2.100E-05
1.839E-02	0.999984	2.626E-05
2.024E-02	0.999989	3.501E-05
2.317E-02	0.999994	5.251E-05
2.919E-02	0.999998	1.050E-04
3.024E-02	0.999999	1.167E-04
3.145E-02	0.999999	1.313E-04
3.288E-02	0.999999	1.500E-04
3.461E-02	1.000000	1.750E-04
3.678E-02	1.000000	2.101E-04
3.962E-02	1.000001	2.626E-04
4.361E-02	1.000001	3.501E-04
4.992E-02	1.000001	5.252E-04
6.290E-02	1.000001	1.051E-03
6.515E-02	1.000001	1.167E-03
6.776E-02	1.000001	1.313E-03
7.084E-02	1.000001	1.501E-03
7.458E-02	1.000001	1.751E-03
7.926E-02	1.000001	2.102E-03
8.538E-02	1.000001	2.628E-03
9.398E-02	1.000001	3.505E-03
1.076E-01	1.000001	5.260E-03
1.357E-01	1.000001	1.054E-02

MAGNESIUM CHLOPIDE
(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIC	WATER GAINED(GM)
1.781E-03	0.438858	2.101E-08
1.839E-03	0.508257	2.334E-08
1.906E-03	0.579863	2.626E-08
1.986E-03	0.651684	3.001E-08
2.083E-03	0.721922	3.501E-08
2.205E-03	0.788188	4.201E-08
2.365E-03	0.848254	5.252E-08
2.445E-03	0.869831	5.835E-08
2.538E-03	0.890088	6.564E-08
2.649E-03	0.908830	7.502E-08
2.783E-03	0.926123	8.752E-08
2.951E-03	0.941910	1.050E-07
3.054E-03	0.949273	1.167E-07
3.173E-03	0.956228	1.313E-07
3.314E-03	0.962761	1.500E-07
3.485E-03	0.968877	1.750E-07
3.699E-03	0.974763	2.101E-07
3.980E-03	0.980355	2.626E-07
4.376E-03	0.985618	3.501E-07
5.003E-03	0.990586	5.251E-07
6.297E-03	0.995374	1.050E-06
6.521E-03	0.995770	1.167E-06
6.781E-03	0.996180	1.313E-06
7.089E-03	0.996606	1.500E-06
7.452E-03	0.997046	1.750E-06
7.929E-03	0.997502	2.100E-06
8.540E-03	0.997973	2.626E-06
9.398E-03	0.998459	3.501E-06
1.076E-02	0.998960	5.251E-06
1.355E-02	0.999475	1.050E-05
1.404E-02	0.999527	1.167E-05
1.460E-02	0.999580	1.313E-05
1.526E-02	0.999632	1.500E-05
1.607E-02	0.999685	1.750E-05
1.707E-02	0.999738	2.100E-05

1.8[illegible]E-02	0.993791	2.626E-05
2.024E-02	0.999844	3.501E-05
2.317E-02	0.999897	5.251E-05
2.919E-02	0.999950	1.050E-04
3.024E-02	0.999955	1.167E-04
3.145E-02	0.999960	1.313E-04
3.288E-02	0.999965	1.500E-04
3.461E-02	0.999971	1.750E-04
3.673E-02	0.999976	2.100E-04
3.962E-02	0.999981	2.625E-04
4.391E-02	0.999986	3.501E-04
4.992E-02	0.999991	5.251E-04
6.289E-02	0.999996	1.050E-03
6.514E-02	0.999997	1.167E-03
6.775E-02	0.999997	1.313E-03
7.083E-02	0.999998	1.500E-03
7.457E-02	0.999998	1.750E-03
7.924E-02	0.999999	2.100E-03
8.546E-02	0.999999	2.626E-03
9.395E-02	1.000000	3.501E-03
1.075E-01	1.000000	5.252E-03
1.355E-01	1.000000	1.051E-02
1.404E-01	1.000000	1.167E-02
1.460E-01	1.000000	1.313E-02
1.526E-01	1.000000	1.501E-02
1.607E-01	1.000000	1.751E-02
1.708E-01	1.000000	2.102E-02
1.839E-01	1.000000	2.628E-02
2.025E-01	1.000000	3.505E-02
2.318E-01	1.000000	5.260E-02
2.923E-01	1.000000	1.054E-01

MAGNESIUM CHLORIDE
(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.833E-03	0.438645	2.101E-07
3.962E-03	0.508242	2.334E-07
4.107E-03	0.579866	2.626E-07
4.279E-03	0.651656	3.001E-07
4.468E-03	0.721903	3.501E-07
4.750E-03	0.788109	4.201E-07
5.095E-03	0.848234	5.251E-07
5.267E-03	0.869811	5.835E-07
5.468E-03	0.890068	6.564E-07
5.706E-03	0.908811	7.502E-07
5.993E-03	0.926104	8.752E-07
6.358E-03	0.941892	1.050E-06
6.579E-03	0.949255	1.167E-06
6.835E-03	0.956211	1.313E-06
7.139E-03	0.962744	1.500E-06
7.507E-03	0.968861	1.750E-06
7.958E-03	0.974748	2.100E-06
8.575E-03	0.980341	2.626E-06
9.427E-03	0.985605	3.501E-06
1.078E-02	0.990575	5.251E-06
1.397E-02	0.995365	1.050E-05
1.405E-02	0.995761	1.167E-05
1.461E-02	0.996172	1.313E-05
1.527E-02	0.996598	1.500E-05
1.608E-02	0.997039	1.750E-05
1.708E-02	0.997495	2.100E-05
1.840E-02	0.997966	2.626E-05
2.025E-02	0.998453	3.501E-05
2.317E-02	0.998954	5.251E-05
2.917E-02	0.999471	1.050E-04
3.024E-02	0.999523	1.167E-04
3.145E-02	0.999576	1.313E-04
3.288E-02	0.999629	1.500E-04
3.451E-02	0.999682	1.750E-04
3.676E-02	0.999735	2.100E-04

3.962E-02	0.999788	2.625E-04
4.361E-02	0.999841	3.501E-04
4.992E-02	0.999894	5.251E-04
6.289E-02	0.999948	1.050E-03
6.514E-02	0.999953	1.167E-03
6.775E-02	0.999958	1.313E-03
7.083E-02	0.999964	1.500E-03
7.457E-02	0.999969	1.750E-03
7.924E-02	0.999974	2.100E-03
8.536E-02	0.999980	2.625E-03
9.395E-02	0.999985	3.501E-03
1.075E-01	0.999990	5.251E-03
1.355E-01	0.999995	1.050E-02
1.403E-01	0.999996	1.167E-02
1.460E-01	0.999996	1.313E-02
1.526E-01	0.999997	1.500E-02
1.606E-01	0.999997	1.750E-02
1.707E-01	0.999998	2.100E-02
1.834E-01	0.999998	2.626E-02
2.024E-01	0.999999	3.501E-02
2.317E-01	0.999999	5.252E-02
2.919E-01	1.000000	1.051E-01
3.024E-01	1.000000	1.167E-01
3.145E-01	1.000000	1.313E-01
3.289E-01	1.000000	1.501E-01
3.462E-01	1.000000	1.751E-01
3.679E-01	1.000000	2.102E-01
3.953E-01	1.000000	2.628E-01
4.302E-01	1.000000	3.505E-01
4.995E-01	1.000000	5.260E-01
6.256E-01	1.000000	1.054E 00

MAGNESIUM CHLORIDE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.268E-03	0.438839	2.101E-06
8.536E-03	0.508235	2.334E-06
8.848E-03	0.579658	2.626E-06
9.218E-03	0.651658	3.001E-06
9.668E-03	0.721894	3.501E-06
1.023E-02	0.788159	4.201E-06
1.098E-02	0.848225	5.251E-06
1.135E-02	0.869802	5.835E-06
1.178E-02	0.890059	6.564E-06
1.229E-02	0.908802	7.502E-06
1.292E-02	0.926095	8.752E-06
1.370E-02	0.941884	1.050E-05
1.417E-02	0.949247	1.167E-05
1.473E-02	0.956203	1.313E-05
1.538E-02	0.962737	1.500E-05
1.613E-02	0.968854	1.750E-05
1.717E-02	0.974741	2.100E-05
1.847E-02	0.980335	2.626E-05
2.031E-02	0.985599	3.501E-05
2.322E-02	0.990570	5.251E-05
2.923E-02	0.995361	1.050E-04
3.027E-02	0.995757	1.167E-04
3.147E-02	0.996168	1.313E-04
3.290E-02	0.996594	1.500E-04
3.463E-02	0.997035	1.750E-04
3.680E-02	0.997492	2.100E-04
3.964E-02	0.997963	2.625E-04
4.362E-02	0.998450	3.501E-04
4.993E-02	0.998952	5.251E-04
6.290E-02	0.999469	1.050E-03
6.515E-02	0.999521	1.167E-03
6.775E-02	0.999574	1.313E-03
7.084E-02	0.999627	1.500E-03
7.457E-02	0.999680	1.750E-03
7.924E-02	0.999733	2.100E-03

8.536E-02	0.999796	2.625E-03
9.395E-02	0.999840	3.501E-03
1.075E-01	0.999893	5.251E-03
1.359E-01	0.999947	1.050E-02
1.403E-01	0.999952	1.167E-02
1.460E-01	0.999958	1.313E-02
1.526E-01	0.999963	1.500E-02
1.606E-01	0.999968	1.750E-02
1.707E-01	0.999974	2.100E-02
1.839E-01	0.999979	2.625E-02
2.024E-01	0.999984	3.500E-02
2.317E-01	0.999990	5.251E-02
2.919E-01	0.999995	1.050E-01
3.023E-01	0.999995	1.167E-01
3.145E-01	0.999996	1.313E-01
3.288E-01	0.999997	1.500E-01
3.461E-01	0.999997	1.750E-01
3.678E-01	0.999998	2.100E-01
3.962E-01	0.999998	2.626E-01
4.351E-01	0.999999	3.501E-01
4.992E-01	0.999999	5.251E-01
6.290E-01	1.000000	1.050E 00
6.515E-01	1.000000	1.167E 00
6.776E-01	1.000000	1.313E 00
7.084E-01	1.000000	1.501E 00
7.459E-01	1.000000	1.751E 00
7.925E-01	1.000000	2.102E 00
8.538E-01	1.000000	2.628E 00
9.398E-01	1.000000	3.505E 00
1.076E 00	1.000000	5.260E 00
1.357E 00	1.000000	1.054E 01

MAGNESIUM CHLORIDE

PERCENTAGE	MOLALITY	DENSITY
0.30	4.500	1.2688
0.25	3.500	1.2184
0.20	2.625	1.1706
0.18	2.305	1.1523
0.16	2.000	1.1342
0.14	1.709	1.1164
0.12	1.432	1.0989
0.10	1.167	1.0816
0.08	0.913	1.0646
0.06	0.670	1.0478
0.04	0.438	1.0311
0.02	0.214	1.0146
0.00	0.000	1.0000

(4) SODIUM CHLORIDE

SODIUM CHLORIDE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
58.45	2.165	2.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.000E-16	1.2849E-05	2.2258E-06
1.000E-15	5.9637E-05	4.7953E-06
1.000E-14	2.7681E-04	1.0331E-05
1.000E-13	1.2848E-03	2.2258E-05
1.000E-12	5.9637E-03	4.7953E-05
1.000E-11	2.7681E-02	1.0331E-04
1.000E-10	1.2848E-01	2.2258E-04
1.000E-09	5.9637E-01	4.7953E-04
1.000E-08	2.7681E 00	1.0331E-03
1.000E-07	1.2848E 01	2.2258E-03
1.000E-06	5.9637E 01	4.7953E-03

NOT REPRODUCIBLE

SODIUM CHLORIDE
(ONE-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
6.0000	0.75575	2.92553
5.5000	0.78354	2.79827
5.0000	0.81075	2.65931
4.5000	0.83949	2.53562
4.0000	0.86143	2.42152
3.5000	0.87268	2.31400
3.0000	0.88319	2.21261
2.5000	0.91279	2.12131
2.0000	0.93162	2.03720
1.8000	0.93831	2.00658
1.6000	0.94605	1.97835
1.4000	0.95316	1.94636
1.2000	0.96025	1.92497
1.0000	0.96684	1.90392
0.9000	0.97023	1.89245
0.8000	0.97359	1.88310
0.7000	0.97692	1.87380
0.6000	0.98024	1.86454
0.5000	0.98355	1.85737
0.4000	0.98683	1.85225
0.3000	0.99009	1.85322
0.2000	0.99334	1.85618
0.1000	0.99665	1.86713
0.0900	0.99696	1.88046
0.0800	0.99729	1.89378
0.0700	0.99760	1.90709
0.0600	0.99793	1.92038
0.0500	0.99826	1.93368
0.0400	0.99860	1.94695
0.0300	0.99894	1.96023
0.0200	0.99929	1.97348
0.0100	0.99964	1.98673
0.0090	0.99968	1.98804
0.0080	0.99971	1.98938
0.0070	0.99975	1.99071

NOT REPRODUCIBLE

0.0000	0.999978	1.000203
0.0000	0.999982	1.000338
0.0000	0.999986	1.000468
0.0000	0.999989	1.000603
0.0000	0.999993	1.000733
0.0000	0.999993	1.000733
0.0000	0.999994	1.000753
0.0000	0.999994	1.000773
0.0000	0.999994	1.000772
0.0000	0.999995	1.000789
0.0000	0.999995	1.000802
0.0000	0.999995	1.000802
0.0000	0.999996	1.000838
0.0000	0.999996	1.000844
0.0000	0.999996	1.000851
0.0000	0.999997	1.000859
0.0000	0.999997	1.000871
0.0000	0.999997	1.000884
0.0000	0.999998	1.000903
0.0000	0.999998	1.000933
0.0000	0.999999	1.000968
0.0000	0.999999	1.000992
0.0000	0.999999	1.000972
0.0001	1.000000	2.000000

NOT REPRODUCIBLE

SODIUM CHLORIDE
(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.241E-06	0.773095	2.853E-16
4.354E-06	0.802031	3.112E-16
4.433E-06	0.825325	3.423E-16
4.550E-06	0.848056	3.804E-16
4.832E-06	0.865881	4.279E-16
5.009E-06	0.880395	4.890E-16
5.252E-06	0.911047	5.705E-16
5.563E-06	0.930085	6.846E-16
5.977E-06	0.948127	8.558E-16
6.178E-06	0.955024	9.509E-16
6.416E-06	0.961716	1.070E-15
6.699E-06	0.968305	1.223E-15
7.041E-06	0.974583	1.426E-15
7.471E-06	0.980656	1.712E-15
7.753E-06	0.983640	1.902E-15
8.030E-06	0.986536	2.139E-15
8.335E-06	0.989372	2.445E-15
8.831E-06	0.992135	2.852E-15
9.377E-06	0.994790	3.423E-15
1.009E-05	0.997318	4.279E-15
1.110E-05	0.999659	5.705E-15
1.270E-05	1.001760	8.557E-15
1.539E-05	1.003347	1.711E-14
1.659E-05	1.003431	1.902E-14
1.721E-05	1.003502	2.139E-14
1.800E-05	1.003556	2.445E-14
1.899E-05	1.003587	2.852E-14
2.013E-05	1.003584	3.423E-14
2.160E-05	1.003546	4.279E-14
2.359E-05	1.003438	5.705E-14
2.751E-05	1.003218	8.557E-14
3.441E-05	1.002761	1.711E-13
3.559E-05	1.002639	1.902E-13
3.718E-05	1.002603	2.139E-13
3.917E-05	1.002518	2.445E-13

NOT REPRODUCIBLE



4.077E-05	1.002415	2.852E-13
4.339E-05	1.002296	3.423E-13
4.579E-05	1.002154	4.278E-13
5.140E-05	1.001980	5.705E-13
5.848E-05	1.001751	8.557E-13
7.912E-05	1.001411	1.711E-12
8.977E-05	1.001366	1.902E-12
7.985E-05	1.001314	2.139E-12
6.963E-05	1.001253	2.445E-12
5.785E-05	1.001188	2.852E-12
5.338E-05	1.001130	3.423E-12
1.010E-04	1.001052	4.278E-12
1.107E-04	1.000956	5.704E-12
1.257E-04	1.000839	8.557E-12
1.557E-04	1.000694	1.711E-11
1.934E-04	1.000645	1.902E-11
1.772E-04	1.000620	2.139E-11
1.791E-04	1.000594	2.445E-11
1.838E-04	1.000564	2.852E-11
2.012E-04	1.000531	3.423E-11
2.157E-04	1.000495	4.279E-11
2.339E-04	1.000448	5.705E-11
2.731E-04	1.000392	8.558E-11
3.441E-04	1.000311	1.712E-10
3.559E-04	1.000300	1.902E-10
3.707E-04	1.000287	2.140E-10
3.875E-04	1.000276	2.446E-10
4.070E-04	1.000263	2.854E-10
4.310E-04	1.000247	3.425E-10
4.610E-04	1.000229	4.282E-10
5.141E-04	1.000208	5.711E-10
5.847E-04	1.000182	8.572E-10
7.421E-04	1.000144	1.717E-09

NOT REPRODUCIBLE

SODIUM CHLORIDE
(CRYSTAL MASS = 1.000E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.133E-06	0.733213	2.853E-15
9.391E-06	0.782067	3.112E-15
9.653E-06	0.815322	3.423E-15
9.975E-06	0.838053	3.804E-15
1.034E-05	0.859940	4.279E-15
1.078E-05	0.881084	4.890E-15
1.132E-05	0.901431	5.705E-15
1.199E-05	0.920780	6.846E-15
1.287E-05	0.939244	8.558E-15
1.341E-05	0.946355	9.508E-15
1.382E-05	0.953291	1.070E-14
1.443E-05	0.960161	1.222E-14
1.517E-05	0.966769	1.426E-14
1.610E-05	0.973228	1.711E-14
1.659E-05	0.976432	1.902E-14
1.731E-05	0.979571	2.139E-14
1.809E-05	0.982678	2.445E-14
1.903E-05	0.985746	2.852E-14
2.020E-05	0.988749	3.423E-14
2.174E-05	0.991683	4.279E-14
2.391E-05	0.994517	5.705E-14
2.735E-05	0.997248	8.557E-14
3.444E-05	0.999751	1.711E-13
3.659E-05	0.999959	1.902E-13
3.707E-05	1.000162	2.139E-13
3.877E-05	1.000361	2.445E-13
4.081E-05	1.000551	2.852E-13
4.337E-05	1.000730	3.423E-13
4.671E-05	1.000892	4.278E-13
5.141E-05	1.001026	5.705E-13
5.834E-05	1.001111	8.557E-13
7.413E-05	1.001089	1.711E-12
7.678E-05	1.001074	1.901E-12
7.985E-05	1.001056	2.139E-12
8.349E-05	1.001033	2.445E-12

8.789E-05	1.001005	2.852E-12
9.339E-05	1.000959	3.423E-12
1.000E-04	1.000922	4.278E-12
1.107E-04	1.000860	5.704E-12
1.297E-04	1.000774	8.557E-12
1.597E-04	1.000685	1.711E-11
1.654E-04	1.000616	1.901E-11
1.720E-04	1.000594	2.139E-11
1.797E-04	1.000571	2.445E-11
1.883E-04	1.000545	2.852E-11
2.012E-04	1.000515	3.423E-11
2.197E-04	1.000480	4.278E-11
2.383E-04	1.000439	5.704E-11
2.731E-04	1.000385	8.557E-11
3.449E-04	1.000306	1.711E-10
3.563E-04	1.000298	1.901E-10
3.705E-04	1.000286	2.139E-10
3.875E-04	1.000274	2.445E-10
4.079E-04	1.000261	2.852E-10
4.339E-04	1.000245	3.423E-10
4.669E-04	1.000228	4.279E-10
5.139E-04	1.000207	5.705E-10
5.883E-04	1.000181	8.558E-10
7.413E-04	1.000144	1.712E-09
7.675E-04	1.000139	1.902E-09
7.986E-04	1.000134	2.140E-09
8.349E-04	1.000128	2.446E-09
8.790E-04	1.000122	2.854E-09
9.341E-04	1.000115	3.425E-09
1.006E-03	1.000106	4.282E-09
1.108E-03	1.000097	5.711E-09
1.256E-03	1.000084	8.571E-09
1.509E-03	1.000067	1.717E-08

SODIUM CHLORIDE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.963E-05	0.753668	2.853E-14
2.021E-05	0.787484	3.112E-14
2.081E-05	0.810720	3.423E-14
2.149E-05	0.833459	3.803E-14
2.229E-05	0.855373	4.279E-14
2.323E-05	0.876568	4.890E-14
2.433E-05	0.897008	5.705E-14
2.562E-05	0.916492	6.846E-14
2.772E-05	0.935149	8.557E-14
2.867E-05	0.942357	9.506E-14
2.978E-05	0.949400	1.070E-13
3.104E-05	0.956405	1.222E-13
3.250E-05	0.963162	1.426E-13
3.408E-05	0.969799	1.711E-13
3.589E-05	0.973104	1.902E-13
3.730E-05	0.976355	2.139E-13
3.877E-05	0.979586	2.445E-13
4.099E-05	0.982734	2.852E-13
4.352E-05	0.985957	3.423E-13
4.685E-05	0.989079	4.278E-13
5.152E-05	0.992139	5.705E-13
5.893E-05	0.995161	8.557E-13
7.413E-05	0.998097	1.711E-12
7.683E-05	0.998351	1.901E-12
7.990E-05	0.998616	2.139E-12
8.353E-05	0.998831	2.445E-12
8.793E-05	0.999145	2.852E-12
9.344E-05	0.999407	3.423E-12
1.010E-04	0.999683	4.278E-12
1.104E-04	0.999919	5.704E-12
1.253E-04	1.000135	8.557E-12
1.537E-04	1.000313	1.711E-11
1.654E-04	1.000326	1.901E-11
1.720E-04	1.000336	2.139E-11
1.798E-04	1.000345	2.445E-11

1.393E-04	1.000351	2.852E-11
2.012E-04	1.000353	3.423E-11
2.157E-04	1.000351	4.278E-11
2.386E-04	1.000341	5.704E-11
2.731E-04	1.000321	8.556E-11
3.440E-04	1.000276	1.711E-10
3.563E-04	1.000268	1.901E-10
3.706E-04	1.000260	2.139E-10
3.875E-04	1.000251	2.445E-10
4.079E-04	1.000241	2.852E-10
4.335E-04	1.000229	3.423E-10
4.659E-04	1.000215	4.278E-10
5.139E-04	1.000198	5.704E-10
5.833E-04	1.000175	8.556E-10
7.412E-04	1.000141	1.711E-09
7.677E-04	1.000136	1.901E-09
7.985E-04	1.000131	2.139E-09
8.348E-04	1.000126	2.445E-09
8.780E-04	1.000120	2.852E-09
9.334E-04	1.000113	3.423E-09
1.006E-03	1.000105	4.278E-09
1.107E-03	1.000096	5.705E-09
1.263E-03	1.000084	8.558E-09
1.577E-03	1.000057	1.712E-08
1.654E-03	1.000054	1.902E-08
1.720E-03	1.000052	2.140E-08
1.799E-03	1.000049	2.446E-08
1.894E-03	1.000046	2.854E-08
2.012E-03	1.000043	3.425E-08
2.158E-03	1.000039	4.282E-08
2.359E-03	1.000035	5.711E-08
2.732E-03	1.000029	8.571E-08
3.444E-03	1.000021	1.717E-07

NOT REPRODUCIBLE

SODIUM CHLORIDE
(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.241E-05	0.761553	2.853E-13
4.354E-05	0.785366	3.112E-13
4.468E-05	0.808593	3.423E-13
4.630E-05	0.831332	3.803E-13
4.801E-05	0.853259	4.279E-13
5.033E-05	0.874450	4.890E-13
5.252E-05	0.894362	5.705E-13
5.563E-05	0.914503	6.846E-13
5.973E-05	0.933254	8.557E-13
6.173E-05	0.940508	9.508E-13
6.419E-05	0.947603	1.070E-12
6.699E-05	0.954666	1.222E-12
7.041E-05	0.961493	1.426E-12
7.471E-05	0.968212	1.711E-12
7.732E-05	0.971563	1.902E-12
8.036E-05	0.974866	2.139E-12
8.399E-05	0.978155	2.445E-12
8.831E-05	0.981427	2.852E-12
9.477E-05	0.984684	3.423E-12
1.009E-04	0.987873	4.278E-12
1.110E-04	0.991037	5.704E-12
1.270E-04	0.994194	8.557E-12
1.533E-04	0.997315	1.711E-11
1.655E-04	0.997606	1.901E-11
1.724E-04	0.997899	2.139E-11
1.810E-04	0.998195	2.445E-11
1.899E-04	0.998493	2.852E-11
2.013E-04	0.998794	3.423E-11
2.153E-04	0.999033	4.278E-11
2.330E-04	0.999340	5.704E-11
2.731E-04	0.999682	8.556E-11
3.441E-04	0.999954	1.711E-10
3.564E-04	0.999978	1.901E-10
3.706E-04	1.000003	2.139E-10
3.875E-04	1.000026	2.445E-10

[NOT REPRODUCIBLE

4.37[illegible]E-04	1.000047	2.852E-10
4.3[illegible]E-04	1.000053	3.423E-10
4.[illegible]E-04	1.000086	4.278E-10
5.139E-04	1.000101	5.704E-10
5.[illegible]E-04	1.000110	8.556E-10
7.41[illegible]E-04	1.000169	1.711E-09
7.[illegible]E-04	1.000107	1.901E-09
7.3[illegible]E-04	1.000195	2.139E-09
8.4[illegible]E-04	1.000192	2.445E-09
9.7[illegible]E-04	1.000198	2.852E-09
9.4[illegible]E-04	1.000257	3.422E-09
1.0[illegible]E-03	1.000282	4.278E-09
1.1[illegible]E-03	1.000[illegible]	5.704E-09
1.2[illegible]E-03	1.000277	8.556E-09
1.5[illegible]E-03	1.000264	1.711E-08
1.[illegible]E-03	1.000282	1.901E-08
1.72[illegible]E-03	1.000259	2.139E-08
1.7[illegible]E-03	1.000257	2.445E-08
1.[illegible]E-03	1.000254	2.852E-08
2.[illegible]E-03	1.000251	3.423E-08
2.1[illegible]E-03	1.000243	4.278E-08
2.[illegible]E-03	1.000244	5.705E-08
2.781E-03	1.000239	8.557E-08
3.441[illegible]-03	1.000231	1.712E-07
3.[illegible]E-03	1.000230	1.902E-07
3.7[illegible]E-03	1.000229	2.140E-07
3.87[illegible]E-03	1.000227	2.446E-07
4.[illegible]30E-03	1.000226	2.854E-07
4.[illegible]36E-03	1.000225	3.423E-07
4.671E-03	1.000223	4.282E-07
5.1[illegible]E-03	1.000221	5.711E-07
5.[illegible]E-03	1.000216	8.571E-07
7.42[illegible]E-03	1.000214	1.717E-06

SODIUM CHLORIDE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.136E-05	0.760595	2.853E-12
9.330E-05	0.784385	3.112E-12
9.657E-05	0.807607	3.423E-12
9.975E-05	0.830347	3.803E-12
1.034E-04	0.852279	4.279E-12
1.078E-04	0.873513	4.890E-12
1.132E-04	0.894013	5.705E-12
1.199E-04	0.913590	6.846E-12
1.287E-04	0.932376	8.557E-12
1.331E-04	0.939650	9.508E-12
1.382E-04	0.946774	1.070E-11
1.443E-04	0.953860	1.222E-11
1.517E-04	0.960719	1.426E-11
1.610E-04	0.967476	1.711E-11
1.666E-04	0.970943	1.901E-11
1.731E-04	0.974176	2.139E-11
1.809E-04	0.977491	2.445E-11
1.902E-04	0.980793	2.852E-11
2.020E-04	0.984064	3.423E-11
2.174E-04	0.987315	4.278E-11
2.391E-04	0.990536	5.704E-11
2.735E-04	0.993745	8.556E-11
3.443E-04	0.996938	1.711E-10
3.808E-04	0.997250	1.901E-10
3.704E-04	0.997565	2.139E-10
3.877E-04	0.997877	2.445E-10
4.091E-04	0.998191	2.852E-10
4.359E-04	0.998503	3.423E-10
4.717E-04	0.998823	4.278E-10
5.141E-04	0.999150	5.704E-10
5.738E-04	0.999471	8.556E-10
7.413E-04	0.999787	1.711E-09
7.757E-04	0.999817	1.901E-09
8.154E-04	0.999843	2.139E-09
8.616E-04	0.999877	2.445E-09

[NOT REPRODUCIBLE]

8.758E-04	0.999907	2.852E-09
9.331E-04	0.999935	3.422E-09
1.000E-03	0.999963	4.278E-09
1.107E-03	0.999989	5.704E-09
1.257E-03	1.000013	8.556E-09
1.537E-03	1.000031	1.711E-08
1.550E-03	1.000032	1.901E-08
1.720E-03	1.000033	2.139E-08
1.793E-03	1.000034	2.445E-08
1.893E-03	1.000035	2.852E-08
2.012E-03	1.000035	3.422E-08
2.157E-03	1.000035	4.278E-08
2.352E-03	1.000034	5.704E-08
2.731E-03	1.000032	8.556E-08
3.440E-03	1.000028	1.711E-07
3.598E-03	1.000027	1.901E-07
3.760E-03	1.000026	2.139E-07
3.947E-03	1.000025	2.445E-07
4.174E-03	1.000024	2.852E-07
4.459E-03	1.000023	3.423E-07
4.859E-03	1.000022	4.278E-07
5.459E-03	1.000020	5.704E-07
6.353E-03	1.000017	8.557E-07
7.913E-03	1.000014	1.712E-06
7.978E-03	1.000014	1.902E-06
7.335E-03	1.000013	2.140E-06
8.349E-03	1.000013	2.445E-06
8.790E-03	1.000012	2.854E-06
9.341E-03	1.000011	3.425E-06
1.000E-02	1.000011	4.282E-06
1.093E-02	1.000010	5.711E-06
1.203E-02	1.000008	8.571E-06
1.354E-02	1.000007	1.717E-05

NOT REPRODUCIBLE

SODIUM CHLORIDE
(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.956E-04	0.760144	2.652E-11
2.021E-04	0.783930	3.112E-11
2.091E-04	0.807150	3.423E-11
2.149E-04	0.829890	3.803E-11
2.220E-04	0.851825	4.278E-11
2.323E-04	0.873064	4.890E-11
2.434E-04	0.893574	5.705E-11
2.582E-04	0.913153	6.845E-11
2.772E-04	0.931969	8.557E-11
2.867E-04	0.939253	9.507E-11
2.977E-04	0.946398	1.070E-10
3.109E-04	0.953486	1.222E-10
3.286E-04	0.960360	1.426E-10
3.486E-04	0.967134	1.711E-10
3.583E-04	0.970517	1.901E-10
3.730E-04	0.973854	2.139E-10
3.956E-04	0.977133	2.445E-10
4.099E-04	0.980459	2.852E-10
4.352E-04	0.983796	3.423E-10
4.684E-04	0.987053	4.278E-10
5.152E-04	0.990299	5.704E-10
5.893E-04	0.993537	8.556E-10
7.41 E-04	0.996792	1.711E-09
7.933E-04	0.997859	1.901E-09
7.993E-04	0.997412	2.139E-09
8.353E-04	0.997729	2.445E-09
8.792E-04	0.998050	2.852E-09
9.342E-04	0.998376	3.422E-09
1.000E-03	0.998705	4.278E-09
1.107E-03	0.999038	5.704E-09
1.253E-03	0.999374	8.556E-09
1.597E-03	0.999709	1.711E-08
1.654E-03	0.999743	1.901E-08
1.720E-03	0.999776	2.139E-08
1.799E-03	0.999809	2.445E-08

[NOT REPRODUCIBLE

1.3[illegible]E-03	0.999841	2.852E-06
2.012E-03	0.999874	3.422E-06
2.[illegible]E-03	0.999906	4.278E-06
2.335E-03	0.999937	5.704E-06
2.731E-03	0.999967	8.556E-06
3.44[illegible]E-03	0.999995	1.711E-07
3.[illegible]E-03	0.999996	1.901E-07
3.790E-03	1.000000	2.139E-07
3.[illegible]E-03	1.000002	2.445E-07
4.079E-03	1.000005	2.852E-07
4.[illegible]E-03	1.000007	3.422E-07
4.[illegible]E-03	1.000009	4.278E-07
5.1[illegible]E-03	1.000010	5.704E-07
5.[illegible]E-03	1.000011	8.556E-07
7.41[illegible]E-03	1.000011	1.711E-06
7.577E-03	1.000011	1.901E-06
7.934E-03	1.000011	2.139E-06
8.3[illegible]E-03	1.000010	2.445E-06
8.[illegible]E-03	1.000010	2.852E-06
9.339E-03	1.000010	3.422E-06
1.0[illegible]E-02	1.000009	4.278E-06
1.107E-02	1.000008	5.704E-06
1.267E-02	1.000008	8.557E-06
1.587E-02	1.000006	1.712E-05
1.[illegible]E-02	1.000005	1.902E-05
1.72[illegible]E-02	1.000006	2.140E-05
1.79[illegible]E-02	1.000006	2.446E-05
1.894E-02	1.000005	2.853E-05
2.012E-02	1.000005	3.423E-05
2.1[illegible]E-02	1.000005	4.278E-05
2.386E-02	1.000004	5.710E-05
2.7[illegible]E-02	1.000004	8.571E-05
3.444E-02	1.000003	1.717E-04

SODIUM CHLORIDE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.240E-04	0.759935	2.852E-10
4.354E-04	0.783719	3.112E-10
4.482E-04	0.806938	3.423E-10
4.630E-04	0.829678	3.803E-10
4.801E-04	0.851614	4.278E-10
5.005E-04	0.872856	4.890E-10
5.252E-04	0.893370	5.704E-10
5.563E-04	0.912966	6.845E-10
5.973E-04	0.931780	8.556E-10
6.177E-04	0.939063	9.507E-10
6.416E-04	0.946208	1.070E-09
6.698E-04	0.953313	1.222E-09
7.041E-04	0.960193	1.426E-09
7.471E-04	0.966976	1.711E-09
7.732E-04	0.970364	1.901E-09
8.035E-04	0.973707	2.139E-09
8.395E-04	0.977040	2.445E-09
8.830E-04	0.980363	2.852E-09
9.376E-04	0.983657	3.422E-09
1.009E-03	0.986933	4.278E-09
1.113E-03	0.990179	5.704E-09
1.270E-03	0.993440	8.556E-09
1.598E-03	0.996714	1.711E-08
1.655E-03	0.997025	1.901E-08
1.721E-03	0.997340	2.139E-08
1.800E-03	0.997660	2.445E-08
1.894E-03	0.997985	2.852E-08
2.013E-03	0.998314	3.422E-08
2.168E-03	0.998648	4.278E-08
2.386E-03	0.998987	5.704E-08
2.731E-03	0.999329	8.556E-08
3.441E-03	0.999673	1.711E-07
3.564E-03	0.999708	1.901E-07
3.706E-03	0.999742	2.139E-07
3.875E-03	0.999777	2.444E-07

4.079E-03	0.999811	2.852E-07
4.335E-03	0.999845	3.422E-07
4.669E-03	0.999879	4.278E-07
5.139E-03	0.999913	5.704E-07
5.883E-03	0.999946	8.556E-07
7.412E-03	0.999978	1.711E-06
7.677E-03	0.999982	1.901E-06
7.984E-03	0.999985	2.139E-06
8.348E-03	0.999988	2.444E-06
8.788E-03	0.999991	2.852E-06
9.338E-03	0.999993	3.422E-06
1.006E-02	0.999996	4.278E-06
1.107E-02	0.999999	5.704E-06
1.267E-02	1.000001	8.556E-06
1.597E-02	1.000003	1.711E-05
1.654E-02	1.000003	1.901E-05
1.720E-02	1.000003	2.139E-05
1.798E-02	1.000003	2.445E-05
1.893E-02	1.000003	2.852E-05
2.012E-02	1.000004	3.422E-05
2.157E-02	1.000004	4.278E-05
2.335E-02	1.000003	5.704E-05
2.731E-02	1.000003	8.557E-05
3.441E-02	1.000003	1.712E-04
3.564E-02	1.000003	1.902E-04
3.706E-02	1.000003	2.140E-04
3.875E-02	1.000003	2.446E-04
4.080E-02	1.000002	2.853E-04
4.345E-02	1.000002	3.425E-04
4.671E-02	1.000002	4.281E-04
5.141E-02	1.000002	5.710E-04
5.886E-02	1.000002	8.570E-04
7.421E-02	1.000004	1.717E-03

SODIUM CHLORIDE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
5.136E-04	0.759838	2.852E-09
5.380E-04	0.783621	3.112E-09
5.657E-04	0.806840	3.423E-09
5.975E-04	0.829579	3.803E-09
1.034E-03	0.851517	4.278E-09
1.078E-03	0.872759	4.889E-09
1.132E-03	0.893275	5.704E-09
1.198E-03	0.912874	6.845E-09
1.287E-03	0.931692	8.556E-09
1.331E-03	0.938983	9.507E-09
1.382E-03	0.946125	1.070E-08
1.443E-03	0.953232	1.222E-08
1.517E-03	0.960116	1.426E-08
1.610E-03	0.966902	1.711E-08
1.666E-03	0.970292	1.901E-08
1.731E-03	0.973638	2.139E-08
1.809E-03	0.976974	2.445E-08
1.902E-03	0.980249	2.852E-08
2.020E-03	0.983597	3.422E-08
2.174E-03	0.986877	4.278E-08
2.391E-03	0.990128	5.704E-08
2.735E-03	0.993396	8.556E-08
3.443E-03	0.996679	1.711E-07
3.566E-03	0.996990	1.901E-07
3.708E-03	0.997307	2.139E-07
3.877E-03	0.997628	2.444E-07
4.081E-03	0.997955	2.852E-07
4.336E-03	0.998286	3.422E-07
4.671E-03	0.998622	4.278E-07
5.140E-03	0.998963	5.704E-07
5.884E-03	0.999308	8.556E-07
7.413E-03	0.999657	1.711E-06
7.677E-03	0.999692	1.901E-06
7.985E-03	0.999727	2.139E-06
8.348E-03	0.999762	2.444E-06

8.788E-03	0.999797	2.852E-06
9.339E-03	0.999832	3.422E-06
1.006E-02	0.999867	4.278E-06
1.107E-02	0.999902	5.704E-06
1.267E-02	0.999936	8.555E-06
1.597E-02	0.999971	1.711E-05
1.654E-02	0.999974	1.901E-05
1.720E-02	0.999977	2.139E-05
1.798E-02	0.999981	2.444E-05
1.893E-02	0.999984	2.852E-05
2.012E-02	0.999987	3.422E-05
2.187E-02	0.999991	4.278E-05
2.385E-02	0.999994	5.704E-05
2.731E-02	0.999997	8.555E-05
3.440E-02	1.000000	1.711E-04
3.563E-02	1.000000	1.901E-04
3.706E-02	1.000000	2.139E-04
3.875E-02	1.000000	2.444E-04
4.079E-02	1.000000	2.852E-04
4.335E-02	1.000001	3.422E-04
4.669E-02	1.000001	4.278E-04
5.139E-02	1.000001	5.704E-04
5.883E-02	1.000001	8.557E-04
7.413E-02	1.000001	1.712E-03
7.678E-02	1.000001	1.902E-03
7.985E-02	1.000001	2.140E-03
8.349E-02	1.000001	2.446E-03
8.789E-02	1.000001	2.853E-03
9.340E-02	1.000001	3.424E-03
1.006E-01	1.000001	4.281E-03
1.108E-01	1.000001	5.710E-03
1.268E-01	1.000001	8.570E-03
1.599E-01	1.000001	1.717E-02

SODIUM CHLORIDE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.968E-03	0.759792	2.852E-08
2.021E-03	0.783576	3.111E-08
2.081E-03	0.806794	3.423E-08
2.149E-03	0.829534	3.803E-08
2.229E-03	0.851471	4.278E-08
2.323E-03	0.872714	4.889E-08
2.433E-03	0.893231	5.704E-08
2.562E-03	0.912831	6.845E-08
2.712E-03	0.931652	8.556E-08
2.867E-03	0.938943	9.507E-08
2.978E-03	0.946086	1.069E-07
3.109E-03	0.953195	1.222E-07
3.268E-03	0.960080	1.426E-07
3.468E-03	0.966868	1.711E-07
3.589E-03	0.970259	1.901E-07
3.730E-03	0.973606	2.139E-07
3.896E-03	0.976943	2.445E-07
4.099E-03	0.980270	2.852E-07
4.352E-03	0.983569	3.422E-07
4.684E-03	0.986851	4.278E-07
5.152E-03	0.990104	5.704E-07
5.892E-03	0.993375	8.556E-07
7.418E-03	0.996662	1.711E-06
7.683E-03	0.996974	1.901E-06
7.989E-03	0.997292	2.139E-06
8.352E-03	0.997614	2.444E-06
8.792E-03	0.997941	2.852E-06
9.342E-03	0.998273	3.422E-06
1.006E-02	0.998610	4.278E-06
1.107E-02	0.998951	5.704E-06
1.268E-02	0.999298	8.555E-06
1.597E-02	0.999649	1.711E-05
1.654E-02	0.999684	1.901E-05
1.720E-02	0.999720	2.139E-05
1.799E-02	0.999755	2.444E-05

1.993E-02	0.999790	2.852E-05
2.012E-02	0.999826	3.422E-05
2.167E-02	0.999861	4.278E-05
2.385E-02	0.999897	5.704E-05
2.731E-02	0.999932	8.555E-05
3.440E-02	0.999967	1.711E-04
3.553E-02	0.999971	1.901E-04
3.706E-02	0.999974	2.139E-04
3.875E-02	0.999978	2.444E-04
4.079E-02	0.999981	2.852E-04
4.334E-02	0.999984	3.422E-04
4.669E-02	0.999988	4.278E-04
5.139E-02	0.999991	5.703E-04
5.883E-02	0.999995	8.555E-04
7.412E-02	0.999998	1.711E-03
7.677E-02	0.999998	1.901E-03
7.934E-02	0.999998	2.139E-03
8.348E-02	0.999999	2.444E-03
8.788E-02	0.999999	2.852E-03
9.338E-02	0.999999	3.422E-03
1.006E-01	1.000000	4.278E-03
1.107E-01	1.000000	5.704E-03
1.267E-01	1.000000	8.556E-03
1.537E-01	1.000000	1.712E-02
1.554E-01	1.000000	1.902E-02
1.720E-01	1.000000	2.140E-02
1.799E-01	1.000000	2.445E-02
1.894E-01	1.000000	2.853E-02
2.012E-01	1.000000	3.424E-02
2.168E-01	1.000000	4.281E-02
2.366E-01	1.000000	5.710E-02
2.732E-01	1.000000	8.570E-02
3.444E-01	1.000000	1.717E+01

SODIUM CHLORIDE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.240E-03	0.759772	2.852E-07
4.354E-03	0.783554	3.111E-07
4.482E-03	0.806773	3.422E-07
4.630E-03	0.829512	3.803E-07
4.801E-03	0.851450	4.278E-07
5.005E-03	0.872693	4.889E-07
5.252E-03	0.893211	5.704E-07
5.563E-03	0.912811	6.845E-07
5.972E-03	0.931633	8.556E-07
6.177E-03	0.938924	9.506E-07
6.415E-03	0.946069	1.069E-06
6.698E-03	0.953178	1.222E-06
7.041E-03	0.960063	1.426E-06
7.471E-03	0.966852	1.711E-06
7.732E-03	0.970244	1.901E-06
8.035E-03	0.973591	2.139E-06
8.394E-03	0.976929	2.444E-06
8.830E-03	0.980256	2.852E-06
9.375E-03	0.983556	3.422E-06
1.009E-02	0.986839	4.278E-06
1.110E-02	0.990093	5.704E-06
1.269E-02	0.993365	8.555E-06
1.598E-02	0.996654	1.711E-05
1.655E-02	0.996967	1.901E-05
1.721E-02	0.997284	2.139E-05
1.799E-02	0.997607	2.444E-05
1.894E-02	0.997934	2.852E-05
2.013E-02	0.998267	3.422E-05
2.168E-02	0.998604	4.278E-05
2.386E-02	0.998946	5.704E-05
2.731E-02	0.999293	8.555E-05
3.441E-02	0.999645	1.711E-04
3.563E-02	0.999681	1.901E-04
3.706E-02	0.999716	2.139E-04
3.875E-02	0.999752	2.444E-04

4.0[illegible]E-02	0.999787	2.852E-04
4.335E-02	0.999823	3.422E-04
4.669E-02	0.999859	4.278E-04
5.139E-02	0.999894	5.703E-04
5.883E-02	0.999930	8.555E-04
7.412E-02	0.999965	1.711E-03
7.677E-02	0.999969	1.901E-03
7.984E-02	0.999973	2.139E-03
8.348E-02	0.999976	2.444E-03
8.788E-02	0.999980	2.852E-03
9.338E-02	0.999983	3.422E-03
1.006E-01	0.999987	4.277E-03
1.107E-01	0.999990	5.703E-03
1.267E-01	0.999994	8.555E-03
1.597E-01	0.999997	1.711E-02
1.654E-01	0.999997	1.901E-02
1.720E-01	0.999998	2.139E-02
1.798E-01	0.999998	2.444E-02
1.893E-01	0.999998	2.852E-02
2.012E-01	0.999999	3.422E-02
2.167E-01	0.999999	4.278E-02
2.385E-01	0.999999	5.704E-02
2.731E-01	1.000000	8.556E-02
3.441E-01	1.000000	1.712E-01
3.564E-01	1.000000	1.902E-01
3.706E-01	1.000000	2.140E-01
3.875E-01	1.000000	2.445E-01
4.080E-01	1.000000	2.853E-01
4.335E-01	1.000000	3.424E-01
4.670E-01	1.000000	4.281E-01
5.141E-01	1.000000	5.710E-01
5.846E-01	1.000000	8.570E-01
7.421E-01	1.000000	1.717E 00

SODIUM CHLORIDE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.135E-03	0.759762	2.852E-06
9.380E-03	0.783545	3.111E-06
9.657E-03	0.806763	3.422E-06
9.974E-03	0.829503	3.803E-06
1.034E-02	0.851440	4.278E-06
1.078E-02	0.872684	4.889E-06
1.132E-02	0.893201	5.704E-06
1.199E-02	0.912802	6.844E-06
1.287E-02	0.931624	8.556E-06
1.331E-02	0.938916	9.506E-06
1.382E-02	0.946060	1.069E-05
1.443E-02	0.953170	1.222E-05
1.517E-02	0.960056	1.426E-05
1.609E-02	0.966845	1.711E-05
1.666E-02	0.970237	1.901E-05
1.731E-02	0.973584	2.139E-05
1.809E-02	0.976922	2.444E-05
1.902E-02	0.980250	2.852E-05
2.020E-02	0.983550	3.422E-05
2.174E-02	0.986833	4.278E-05
2.391E-02	0.990088	5.704E-05
2.735E-02	0.993361	8.555E-05
3.443E-02	0.996651	1.711E-04
3.566E-02	0.996963	1.901E-04
3.708E-02	0.997281	2.139E-04
3.877E-02	0.997604	2.444E-04
4.081E-02	0.997931	2.852E-04
4.336E-02	0.998264	3.422E-04
4.671E-02	0.998601	4.278E-04
5.140E-02	0.998944	5.703E-04
5.884E-02	0.999291	8.555E-04
7.412E-02	0.999644	1.711E-03
7.677E-02	0.999679	1.901E-03
7.985E-02	0.999715	2.139E-03
8.348E-02	0.999750	2.444E-03

8.788E-02	0.999786	2.852E-03
9.339E-02	0.999822	3.422E-03
1.006E-01	0.999857	4.277E-03
1.107E-01	0.999893	5.703E-03
1.267E-01	0.999929	8.555E-03
1.597E-01	0.999965	1.711E-02
1.654E-01	0.999968	1.901E-02
1.720E-01	0.999972	2.139E-02
1.798E-01	0.999975	2.444E-02
1.893E-01	0.999979	2.852E-02
2.012E-01	0.999983	3.422E-02
2.167E-01	0.999986	4.277E-02
2.335E-01	0.999990	5.703E-02
2.730E-01	0.999993	8.555E-02
3.440E-01	0.999997	1.711E-01
3.563E-01	0.999997	1.901E-01
3.706E-01	0.999997	2.139E-01
3.875E-01	0.999998	2.444E-01
4.079E-01	0.999998	2.852E-01
4.334E-01	0.999998	3.422E-01
4.659E-01	0.999999	4.278E-01
5.139E-01	0.999999	5.704E-01
5.853E-01	0.999999	8.556E-01
7.412E-01	1.000000	1.711E 00
7.678E-01	1.000000	1.902E 00
7.985E-01	1.000000	2.140E 00
8.349E-01	1.000000	2.445E 00
8.789E-01	1.000000	2.853E 00
9.340E-01	1.000000	3.424E 00
1.006E 00	1.000000	4.281E 00
1.108E 00	1.000000	5.710E 00
1.259E 00	1.000000	8.570E 00
1.599E 00	1.000000	1.717E 01

SODIUM CHLORIDE

PERCENTAGE	MOLALITY	DENSITY
0.24	5.403	1.1804
0.22	4.826	1.1640
0.20	4.277	1.1478
0.18	3.756	1.1319
0.16	3.259	1.1162
0.14	2.785	1.1009
0.12	2.333	1.0857
0.10	1.901	1.0707
0.08	1.486	1.0559
0.06	1.092	1.0413
0.04	0.713	1.0268
0.02	0.349	1.0125
0.01	0.173	1.0053
0.00	0.000	1.0000

(5) CALCIUM CHLORIDE

CALCIUM CHLORIDE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
110.99	2.152	3.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.2823E-05	2.2303E-06
1.00E-15	5.9517E-05	4.8050E-06
1.00E-14	2.7625E-04	1.0352E-05
1.00E-13	1.2823E-03	2.2303E-05
1.00E-12	5.9517E-03	4.8050E-05
1.00E-11	2.7625E-02	1.0352E-04
1.00E-10	1.2823E-01	2.2303E-04
1.00E-09	5.9517E-01	4.8050E-04
1.00E-08	2.7625E 00	1.0352E-03
1.00E-07	1.2823E 01	2.2303E-03
1.00E-06	5.9517E 01	4.8050E-03

CALCIUM CHLORIDE
(TWO-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
6.0000	0.39162	14.37217
5.5000	0.44249	12.71626
5.0000	0.49880	11.15542
4.5000	0.56015	9.68618
4.0000	0.62394	8.36417
3.5000	0.68748	7.20962
3.0000	0.74944	6.18635
2.5000	0.80908	5.23941
2.0000	0.86180	4.45078
1.8000	0.88078	4.17436
1.6000	0.89856	3.91674
1.4000	0.91521	3.67333
1.2000	0.93072	3.44312
1.0000	0.94504	3.22839
0.9000	0.95174	3.12772
0.8000	0.95818	3.02822
0.7000	0.96422	2.94227
0.6000	0.96998	2.86342
0.5000	0.97553	2.78537
0.4000	0.98086	2.70808
0.3000	0.98590	2.64675
0.2000	0.99073	2.59808
0.1000	0.99540	2.56792
0.0900	0.99578	2.61131
0.0800	0.99619	2.65466
0.0700	0.99661	2.69798
0.0600	0.99705	2.74125
0.0500	0.99750	2.78448
0.0400	0.99797	2.82767
0.0300	0.99845	2.87082
0.0200	0.99895	2.91393
0.0100	0.99947	2.95695
0.0090	0.99952	2.96129
0.0080	0.99957	2.96556
0.0070	0.99963	2.96986

0.0060	C.99968	2.97420
0.0050	0.99973	2.97842
0.0040	0.99979	2.98277
0.0030	C.99984	2.98710
0.0020	C.99989	2.99135
0.0019	C.99990	2.99181
0.0018	0.99990	2.99210
0.0017	C.99991	2.99267
0.0016	0.99991	2.99305
0.0015	0.99992	2.99348
0.0014	C.99992	2.99397
0.0013	C.99993	2.99423
0.0012	0.99994	2.99453
0.0011	0.99994	2.99490
0.0010	0.99995	2.99533
0.0009	0.99995	2.99587
0.0008	0.99996	2.99654
0.0007	C.99996	2.99682
0.0006	0.99997	2.99720
0.0005	0.99997	2.99774
0.0004	0.99998	2.99753
0.0003	0.99998	2.99855
0.0002	0.99999	2.99855
0.0001	0.999[illegible]	2.99859

CALCIUM CHLORIDE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.481E-06	0.402706	1.503E-16
3.571E-06	0.454763	1.639E-16
3.674E-06	0.512332	1.803E-16
3.791E-06	0.574973	2.003E-16
3.927E-06	0.639980	2.254E-16
4.088E-06	0.704574	2.576E-16
4.284E-06	0.767339	3.005E-16
4.531E-06	0.827495	3.606E-16
4.855E-06	0.880243	4.507E-16
5.018E-06	0.899072	5.008E-16
5.207E-06	0.916600	5.634E-16
5.431E-06	0.932886	6.438E-16
5.704E-06	0.947894	7.511E-16
6.046E-06	0.961538	9.013E-16
6.254E-06	0.967827	1.001E-15
6.496E-06	0.973804	1.127E-15
6.783E-06	0.979304	1.288E-15
7.131E-06	0.984431	1.502E-15
7.567E-06	0.989243	1.803E-15
8.140E-06	0.993701	2.253E-15
8.947E-06	0.997658	3.004E-15
1.023E-05	1.001078	4.506E-15
1.287E-05	1.003671	9.013E-15
1.332E-05	1.003779	1.001E-14
1.386E-05	1.003881	1.127E-14
1.448E-05	1.003971	1.288E-14
1.525E-05	1.004043	1.502E-14
1.620E-05	1.004087	1.803E-14
1.745E-05	1.004086	2.253E-14
1.920E-05	1.004014	3.004E-14
2.197E-05	1.003814	4.506E-14
2.768E-05	1.003328	9.013E-14
2.867E-05	1.003248	1.001E-13
2.982E-05	1.003157	1.127E-13
3.118E-05	1.003054	1.288E-13

3.282E-05	1.002935	1.502E-13
3.487E-05	1.002796	1.803E-13
3.757E-05	1.002630	2.253E-13
4.135E-05	1.002423	3.004E-13
4.733E-05	1.002150	4.506E-13
5.963E-05	1.001738	9.012E-13
6.176E-05	1.001681	1.001E-12
6.424E-05	1.001620	1.127E-12
6.716E-05	1.001553	1.287E-12
7.070E-05	1.001479	1.502E-12
7.513E-05	1.001395	1.802E-12
8.093E-05	1.001298	2.253E-12
8.908E-05	1.001183	3.004E-12
1.020E-04	1.001037	4.506E-12
1.285E-04	1.000826	9.013E-12
1.331E-04	1.000798	1.001E-11
1.384E-04	1.000767	1.127E-11
1.447E-04	1.000734	1.288E-11
1.523E-04	1.000698	1.502E-11
1.619E-04	1.000657	1.803E-11
1.744E-04	1.000610	2.253E-11
1.919E-04	1.000555	3.004E-11
2.197E-04	1.000485	4.507E-11
2.768E-04	1.000385	9.015E-11
2.867E-04	1.000372	1.002E-10
2.982E-04	1.000358	1.127E-10
3.118E-04	1.000342	1.288E-10
3.292E-04	1.000325	1.503E-10
3.488E-04	1.000306	1.804E-10
3.758E-04	1.000284	2.255E-10
4.136E-04	1.000258	3.008E-10
4.736E-04	1.000225	4.514E-10
5.970E-04	1.000179	9.044E-10

CALCIUM CHLORIDE

(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.499E-06	0.396730	1.503E-15
7.694E-06	0.448145	1.639E-15
7.915E-06	0.505036	1.803E-15
8.167E-06	0.566984	2.003E-15
8.490E-06	0.631335	2.254E-15
8.808E-06	0.695365	2.575E-15
9.201E-06	0.757693	3.005E-15
9.761E-06	0.817578	3.606E-15
1.046E-05	0.870313	4.507E-15
1.081E-05	0.899222	5.008E-15
1.122E-05	0.906888	5.633E-15
1.170E-05	0.923373	6.438E-15
1.223E-05	0.938655	7.511E-15
1.303E-05	0.952661	9.013E-15
1.347E-05	0.959172	1.001E-14
1.400E-05	0.965402	1.127E-14
1.461E-05	0.971195	1.288E-14
1.536E-05	0.976660	1.502E-14
1.630E-05	0.981869	1.803E-14
1.754E-05	0.986799	2.253E-14
1.928E-05	0.991339	3.004E-14
2.203E-05	0.995518	4.506E-14
2.772E-05	0.999228	9.013E-14
2.971E-05	0.999487	1.001E-13
2.985E-05	0.999752	1.127E-13
3.120E-05	1.000020	1.288E-13
3.285E-05	1.000287	1.502E-13
3.490E-05	1.000551	1.803E-13
3.759E-05	1.000809	2.253E-13
4.136E-05	1.001029	3.004E-13
4.734E-05	1.001205	4.506E-13
5.964E-05	1.001258	9.012E-13
6.177E-05	1.001249	1.001E-12
6.424E-05	1.001235	1.127E-12
6.717E-05	1.001215	1.287E-12

7.071E-05	1.001189	1.502E-12
7.514E-05	1.001153	1.802E-12
8.094E-05	1.001105	2.253E-12
8.908E-05	1.001037	3.004E-12
1.020E-04	1.000940	4.506E-12
1.285E-04	1.000777	9.012E-12
1.331E-04	1.000754	1.001E-11
1.384E-04	1.000728	1.127E-11
1.447E-04	1.000700	1.287E-11
1.523E-04	1.000669	1.502E-11
1.619E-04	1.000633	1.802E-11
1.744E-04	1.000591	2.253E-11
1.919E-04	1.000540	3.004E-11
2.197E-04	1.000475	4.506E-11
2.768E-04	1.000380	9.012E-11
2.967E-04	1.000368	1.001E-10
2.982E-04	1.000354	1.127E-10
3.117E-04	1.000339	1.287E-10
3.282E-04	1.000322	1.502E-10
3.487E-04	1.000303	1.803E-10
3.757E-04	1.000282	2.253E-10
4.135E-04	1.000257	3.004E-10
4.733E-04	1.000224	4.507E-10
5.964E-04	1.000178	9.015E-10
6.177E-04	1.000172	1.002E-09
6.424E-04	1.000166	1.127E-09
6.717E-04	1.000159	1.288E-09
7.071E-04	1.000151	1.503E-09
7.515E-04	1.000142	1.804E-09
8.095E-04	1.000132	2.255E-09
8.911E-04	1.000120	3.008E-09
1.020E-03	1.000105	4.514E-09
1.286E-03	1.000083	9.044E-09

CALCIUM CHLORIDE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATUPATION RATIC	WATER GAINED(GM)
1.616E-05	0.393986	1.502E-14
1.658E-05	0.445105	1.639E-14
1.705E-05	0.501685	1.803E-14
1.760E-05	0.563314	2.003E-14
1.823E-05	0.627363	2.254E-14
1.898E-05	0.691131	2.575E-14
1.989E-05	0.753257	3.005E-14
2.103E-05	0.813015	3.605E-14
2.254E-05	0.865742	4.507E-14
2.329E-05	0.884687	5.007E-14
2.417E-05	0.902414	5.633E-14
2.521E-05	0.918991	6.438E-14
2.647E-05	0.934397	7.511E-14
2.806E-05	0.948569	9.013E-14
2.903E-05	0.955181	1.001E-13
3.015E-05	0.961527	1.127E-13
3.144E-05	0.967453	1.288E-13
3.410E-05	0.973074	1.502E-13
3.512E-05	0.978464	1.803E-13
3.773E-05	0.983612	2.253E-13
4.153E-05	0.988420	3.004E-13
4.747E-05	0.992947	4.506E-13
5.972E-05	0.997172	9.012E-13
6.134E-05	0.997501	1.001E-12
6.431E-05	0.997841	1.127E-12
6.723E-05	0.998191	1.287E-12
7.076E-05	0.998549	1.502E-12
7.519E-05	0.998914	1.802E-12
8.098E-05	0.999282	2.253E-12
8.912E-05	0.999647	3.004E-12
1.020E-04	0.999997	4.506E-12
1.285E-04	1.000298	9.012E-12
1.331E-04	1.000322	1.001E-11
1.384E-04	1.000344	1.127E-11
1.447E-04	1.000363	1.287E-11

1.523E-04	1.000379	1.502E-11
1.619E-04	1.000391	1.802E-11
1.744E-04	1.000397	2.253E-11
1.919E-04	1.000395	3.004E-11
2.197E-04	1.000378	4.506E-11
2.768E-04	1.000332	9.012E-11
2.867E-04	1.000324	1.001E-10
2.982E-04	1.000315	1.127E-10
3.117E-04	1.000305	1.287E-10
3.282E-04	1.000293	1.502E-10
3.487E-04	1.000279	1.802E-10
3.756E-04	1.000263	2.253E-10
4.134E-04	1.000242	3.004E-10
4.733E-04	1.000215	4.506E-10
5.963E-04	1.000174	9.012E-10
6.176E-04	1.000168	1.001E-09
6.423E-04	1.000162	1.127E-09
6.716E-04	1.000155	1.287E-09
7.070E-04	1.000148	1.502E-09
7.513E-04	1.000139	1.802E-09
8.093E-04	1.000130	2.253E-09
8.908E-04	1.000118	3.004E-09
1.020E-03	1.000104	4.507E-09
1.235E-03	1.000083	9.015E-09
1.331E-03	1.000080	1.002E-08
1.384E-03	1.000077	1.127E-08
1.447E-03	1.000073	1.288E-08
1.523E-03	1.000070	1.503E-08
1.619E-03	1.000066	1.804E-08
1.744E-03	1.000061	2.255E-08
1.920E-03	1.000055	3.007E-08
2.198E-03	1.000048	4.514E-08
2.771E-03	1.000038	9.044E-08

CALCIUM CHLORIDE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.431E-05	0.392719	1.502E-13
3.571E-05	0.443701	1.639E-13
3.674E-05	0.500137	1.803E-13
3.791E-05	0.561618	2.003E-13
3.927E-05	0.625527	2.253E-13
4.088E-05	0.689175	2.575E-13
4.284E-05	0.751207	3.004E-13
4.531E-05	0.810906	3.605E-13
4.855E-05	0.863628	4.507E-13
5.018E-05	0.882590	5.007E-13
5.207E-05	0.900346	5.633E-13
5.431E-05	0.916564	6.438E-13
5.703E-05	0.932427	7.511E-13
6.046E-05	0.946675	9.013E-13
6.254E-05	0.953334	1.001E-12
6.496E-05	0.959734	1.127E-12
6.783E-05	0.965722	1.289E-12
7.131E-05	0.971415	1.502E-12
7.567E-05	0.976888	1.803E-12
8.140E-05	0.982136	2.253E-12
8.947E-05	0.987067	3.004E-12
1.023E-04	0.991756	4.506E-12
1.287E-04	0.996220	9.012E-12
1.332E-04	0.996981	1.001E-11
1.386E-04	0.997855	1.127E-11
1.448E-04	0.998343	1.287E-11
1.525E-04	0.998743	1.502E-11
1.620E-04	0.999155	1.802E-11
1.745E-04	0.999577	2.253E-11
1.920E-04	0.999806	3.004E-11
2.197E-04	0.999936	4.506E-11
2.768E-04	0.999853	9.012E-11
2.867E-04	0.999892	1.001E-10
2.982E-04	0.999931	1.126E-10
3.118E-04	0.999968	1.287E-10

3.282E-04	1.000004	1.502E-10
3.437E-04	1.000038	1.802E-10
3.757E-04	1.000069	2.253E-10
4.135E-04	1.000097	3.004E-10
4.738E-04	1.000118	4.506E-10
5.963E-04	1.000125	9.012E-10
6.170E-04	1.000124	1.001E-09
6.423E-04	1.000123	1.126E-09
6.715E-04	1.000121	1.287E-09
7.070E-04	1.000119	1.502E-09
7.513E-04	1.000115	1.802E-09
8.093E-04	1.000110	2.253E-09
8.907E-04	1.000104	3.004E-09
1.020E-03	1.000094	4.506E-09
1.235E-03	1.000078	9.012E-09
1.331E-03	1.000075	1.001E-08
1.384E-03	1.000073	1.126E-08
1.447E-03	1.000070	1.287E-08
1.523E-03	1.000067	1.502E-08
1.619E-03	1.000063	1.802E-08
1.744E-03	1.000059	2.253E-08
1.919E-03	1.000054	3.004E-08
2.197E-03	1.000048	4.507E-08
2.754E-03	1.000036	9.015E-08
2.957E-03	1.000037	1.002E-07
2.932E-03	1.000035	1.127E-07
3.116E-03	1.000034	1.288E-07
3.282E-03	1.000032	1.503E-07
3.438E-03	1.000030	1.804E-07
3.757E-03	1.000028	2.255E-07
4.136E-03	1.000026	3.007E-07
4.736E-03	1.000022	4.511E-07
5.370E-03	1.000018	9.044E-07

CALCIUM CHLORIDE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.49[illegible]E-05	0.392132	1.502E-12
7.694E-05	0.443051	1.639E-12
7.914E-05	0.499420	1.803E-12
8.157E-05	0.560833	2.003E-12
8.433E-05	0.624677	2.253E-12
8.680E-05	0.688268	2.575E-12
9.253E-05	0.750258	3.004E-12
9.751E-05	0.809929	3.605E-12
1.040E-04	0.862649	4.506E-12
1.091E-04	0.901618	5.007E-12
1.122E-04	0.933397	5.633E-12
1.170E-04	0.959024	6.438E-12
1.224E-04	0.971514	7.510E-12
1.303E-04	0.985797	9.012E-12
1.347E-04	0.992478	1.001E-11
1.395E-04	0.995892	1.127E-11
1.461E-04	0.998919	1.287E-11
1.536E-04	0.999645	1.502E-11
1.633E-04	0.999858	1.802E-11
1.754E-04	0.999952	2.253E-11
1.927E-04	0.999986	3.004E-11
2.203E-04	0.999994	4.505E-11
2.772E-04	0.999998	9.012E-11
2.871E-04	0.999999	1.001E-10
2.993E-04	0.999999	1.127E-10
3.120E-04	0.999999	1.287E-10
3.244E-04	0.999999	1.502E-10
3.493E-04	0.999999	1.802E-10
3.739E-04	0.999999	2.253E-10
4.138E-04	0.999999	3.004E-10
4.734E-04	0.999999	4.506E-10
5.364E-04	0.999999	9.012E-10
6.177E-04	0.999999	1.001E-09
6.424E-04	0.999999	1.126E-09
6.710E-04	0.999999	1.287E-09

7.070E-04	0.999830	1.502E-07
7.513E-04	0.999774	1.802E-07
8.093E-04	0.999717	2.253E-07
8.408E-04	0.999659	3.004E-07
1.020E-03	0.999557	4.506E-07
1.245E-03	1.000029	9.012E-07
1.331E-03	1.000032	1.001E-06
1.334E-03	1.000034	1.126E-06
1.447E-03	1.000036	1.287E-06
1.523E-03	1.000038	1.502E-06
1.619E-03	1.000039	1.802E-06
1.744E-03	1.000040	2.253E-06
1.919E-03	1.000039	3.004E-06
2.197E-03	1.000038	4.506E-06
2.753E-03	1.000033	9.012E-06
2.867E-03	1.000032	1.001E-07
2.981E-03	1.000031	1.126E-07
3.117E-03	1.000030	1.287E-07
3.242E-03	1.000029	1.502E-07
3.467E-03	1.000028	1.802E-07
3.756E-03	1.000026	2.253E-07
4.135E-03	1.000024	3.004E-07
4.733E-03	1.000021	4.506E-07
5.963E-03	1.000017	9.014E-07
6.177E-03	1.000017	1.002E-06
6.424E-03	1.000016	1.127E-06
6.717E-03	1.000015	1.288E-06
7.071E-03	1.000015	1.503E-06
7.514E-03	1.000014	1.804E-06
8.093E-03	1.000013	2.255E-06
8.911E-03	1.000012	3.007E-06
1.023E-02	1.000010	4.514E-06
1.245E-02	1.000008	9.044E-06

CALCIUM CHLORIDE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.61[illegible]E-04	0.391860	1.502E-11
1.[illegible]38E-04	0.442750	1.639E-11
1.7[illegible]5E-04	0.499088	1.803E-11
1.75[illegible]E-04	0.560469	2.003E-11
1.82[illegible]E-04	0.624293	2.253E-11
1.[illegible]4E-04	0.687848	2.575E-11
1.95[illegible]E-04	0.749817	3.004E-11
2.10[illegible]E-04	0.809475	3.605E-11
2.29[illegible]E-04	0.862195	4.506E-11
2.32[illegible]E-04	0.881168	5.007E-11
2.41[illegible]E-04	0.898943	5.633E-11
2.52[illegible]E-04	0.915589	6.437E-11
2.[illegible]47E-04	0.931091	7.510E-11
2.80[illegible]E-04	0.945390	9.012E-11
2.90[illegible]E-04	0.952081	1.001E-10
3.01[illegible]E-04	0.958517	1.127E-10
3.14[illegible]E-04	0.964547	1.287E-10
3.31[illegible]E-04	0.970288	1.502E-10
3.51[illegible]E-04	0.975819	1.802E-10
3.77[illegible]E-04	0.981134	2.253E-10
4.15[illegible]E-04	0.986149	3.004E-10
4.74[illegible]E-04	0.990948	4.506E-10
5.[illegible]72E-04	0.995573	9.012E-10
6.[illegible]84E-04	0.995956	1.001E-09
6.43[illegible]E-04	0.996354	1.126E-09
6.72[illegible]E-04	0.996767	1.287E-09
7.07[illegible]E-04	0.997196	1.502E-09
7.51[illegible]E-04	0.997640	1.802E-09
8.[illegible]4E-04	0.998098	2.253E-09
8.91[illegible]E-04	0.998570	3.004E-09
1.02[illegible]E-03	0.999056	4.506E-09
1.28[illegible]E-03	0.999551	9.012E-09
1.33[illegible]E-03	0.999600	1.001E-08
1.33[illegible]E-03	0.999650	1.126E-08
1.44[illegible]E-03	0.999699	1.287E-08

NOT REPRODUCIBLE

1.523E-03	0.999749	1.502E-08
1.619E-03	0.999798	1.802E-08
1.744E-03	0.999846	2.253E-08
1.914E-03	0.999894	3.004E-08
2.197E-03	0.999941	4.506E-08
2.705E-03	0.999965	9.011E-08
2.857E-03	0.999969	1.001E-07
2.981E-03	0.999993	1.126E-07
3.117E-03	0.999996	1.287E-07
3.281E-03	1.000000	1.502E-07
3.487E-03	1.000004	1.802E-07
3.756E-03	1.000007	2.253E-07
4.134E-03	1.000010	3.004E-07
4.753E-03	1.000012	4.506E-07
5.389E-03	1.000012	9.012E-07
6.176E-03	1.000012	1.001E-06
6.423E-03	1.000012	1.126E-06
6.710E-03	1.000012	1.287E-06
7.270E-03	1.000012	1.502E-06
7.513E-03	1.000012	1.802E-06
8.123E-03	1.000011	2.253E-06
8.995E-03	1.000010	3.004E-06
1.120E-02	1.000009	4.506E-06
1.235E-02	1.000008	9.014E-06
1.381E-02	1.000008	1.002E-05
1.384E-02	1.000007	1.127E-05
1.447E-02	1.000007	1.283E-05
1.523E-02	1.000007	1.503E-05
1.619E-02	1.000006	1.803E-05
1.744E-02	1.000006	2.255E-05
1.920E-02	1.000005	3.007E-05
2.193E-02	1.000005	4.514E-05
2.771E-02	1.000004	9.043E-05

CALCIUM CHLORIDE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.481E-04	0.391733	1.502E-10
3.571E-04	0.442010	1.639E-10
3.674E-04	0.498933	1.803E-10
3.791E-04	0.560300	2.003E-10
3.927E-04	0.624100	2.253E-10
4.088E-04	0.687653	2.575E-10
4.284E-04	0.749613	3.004E-10
4.531E-04	0.809265	3.605E-10
4.855E-04	0.861984	4.506E-10
5.017E-04	0.880959	5.007E-10
5.207E-04	0.898736	5.633E-10
5.431E-04	0.915386	6.437E-10
5.703E-04	0.930394	7.510E-10
6.046E-04	0.945201	9.012E-10
6.254E-04	0.951896	1.001E-09
6.496E-04	0.958338	1.126E-09
6.782E-04	0.964374	1.287E-09
7.130E-04	0.970122	1.502E-09
7.567E-04	0.975661	1.802E-09
8.140E-04	0.980987	2.253E-09
8.946E-04	0.986014	3.004E-09
1.023E-03	0.990829	4.506E-09
1.287E-03	0.995478	9.012E-09
1.332E-03	0.995864	1.001E-08
1.386E-03	0.996265	1.126E-08
1.448E-03	0.996683	1.287E-08
1.524E-03	0.997116	1.502E-08
1.620E-03	0.997564	1.802E-08
1.745E-03	0.998028	2.253E-08
1.920E-03	0.998506	3.004E-08
2.197E-03	0.999000	4.506E-08
2.768E-03	0.999506	9.011E-08
2.867E-03	0.999557	1.001E-07
2.982E-03	0.999609	1.126E-07
3.117E-03	0.999660	1.287E-07

3.282E-03	0.999711	1.502E-07
3.487E-03	0.999762	1.802E-07
3.757E-03	0.999814	2.253E-07
4.135E-03	0.999864	3.004E-07
4.733E-03	0.999915	4.506E-07
5.963E-03	0.999964	9.011E-07
6.176E-03	0.999969	1.001E-06
6.423E-03	0.999973	1.126E-06
6.710E-03	0.999978	1.287E-06
7.070E-03	0.999983	1.502E-06
7.513E-03	0.999987	1.802E-06
8.093E-03	0.999992	2.253E-06
8.907E-03	0.999996	3.004E-06
1.020E-02	1.000000	4.506E-06
1.285E-02	1.000003	9.011E-06
1.431E-02	1.000003	1.001E-05
1.384E-02	1.000003	1.126E-05
1.447E-02	1.000004	1.287E-05
1.523E-02	1.000004	1.502E-05
1.619E-02	1.000004	1.802E-05
1.744E-02	1.000004	2.253E-05
1.919E-02	1.000004	3.004E-05
2.197E-02	1.000004	4.505E-05
2.768E-02	1.000003	9.014E-05
2.807E-02	1.000003	1.002E-04
2.982E-02	1.000003	1.127E-04
3.113E-02	1.000003	1.288E-04
3.282E-02	1.000003	1.503E-04
3.488E-02	1.000003	1.803E-04
3.757E-02	1.000003	2.255E-04
4.136E-02	1.000002	3.007E-04
4.735E-02	1.000002	4.513E-04
5.970E-02	1.000002	9.043E-04

CALCIUM CHLORIDE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.499E-04	0.391675	1.502E-09
7.894E-04	0.442545	1.639E-09
7.914E-04	0.498862	1.803E-09
8.157E-04	0.560222	2.003E-09
8.490E-04	0.624015	2.253E-09
8.807E-04	0.687563	2.575E-09
9.230E-04	0.749518	3.004E-09
9.761E-04	0.809168	3.605E-09
1.046E-03	0.861887	4.506E-09
1.081E-03	0.880862	5.007E-09
1.122E-03	0.898640	5.632E-09
1.179E-03	0.915293	6.437E-09
1.229E-03	0.930803	7.510E-09
1.302E-03	0.945114	9.012E-09
1.347E-03	0.951811	1.001E-08
1.399E-03	0.958255	1.126E-08
1.461E-03	0.964294	1.287E-08
1.536E-03	0.970045	1.502E-08
1.630E-03	0.975588	1.802E-08
1.754E-03	0.980919	2.253E-08
1.927E-03	0.985952	3.004E-08
2.203E-03	0.990774	4.506E-08
2.772E-03	0.995434	9.011E-08
2.970E-03	0.995921	1.001E-07
3.135E-03	0.996294	1.126E-07
3.320E-03	0.996643	1.287E-07
3.544E-03	0.997078	1.502E-07
3.490E-03	0.997529	1.802E-07
3.754E-03	0.997995	2.253E-07
4.130E-03	0.998477	3.004E-07
4.734E-03	0.998974	4.506E-07
5.934E-03	0.999485	9.011E-07
6.177E-03	0.999537	1.001E-06
6.424E-03	0.999589	1.126E-06
6.716E-03	0.999642	1.287E-06

7.070E-03	0.999694	1.502E-06
7.513E-03	0.999746	1.802E-06
8.093E-03	0.999798	2.253E-06
8.908E-03	0.999851	3.004E-06
1.020E-02	0.999903	4.506E-06
1.235E-02	0.999954	9.011E-06
1.331E-02	0.999959	1.001E-05
1.384E-02	0.999965	1.126E-05
1.447E-02	0.999970	1.287E-05
1.523E-02	0.999975	1.502E-05
1.619E-02	0.999980	1.802E-05
1.744E-02	0.999985	2.253E-05
1.917E-02	0.999989	3.004E-05
2.197E-02	0.999994	4.505E-05
2.708E-02	0.999998	9.011E-05
2.857E-02	0.999999	1.001E-04
2.931E-02	0.999999	1.126E-04
3.117E-02	1.000000	1.287E-04
3.281E-02	1.000000	1.502E-04
3.487E-02	1.000000	1.802E-04
3.750E-02	1.000001	2.253E-04
4.134E-02	1.000001	3.004E-04
4.733E-02	1.000001	4.506E-04
5.963E-02	1.000001	9.014E-04
6.177E-02	1.000001	1.002E-03
6.424E-02	1.000001	1.127E-03
6.717E-02	1.000001	1.288E-03
7.071E-02	1.000001	1.503E-03
7.514E-02	1.000001	1.803E-03
8.095E-02	1.000001	2.255E-03
8.911E-02	1.000001	3.007E-03
1.020E-01	1.000001	4.513E-03
1.286E-01	1.000001	9.043E-03



NOT REPRODUCIBLE

CALCIUM CHL[illegible]E
(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

PRODUCT(GM)	SATURATION RATIO	WATER GAINED(GM)
1.510E-03	0.391648	1.502E-08
1.658E-03	0.442515	1.652E-08
1.709E-03	0.498823	1.802E-08
1.759E-03	0.560185	2.003E-08
1.828E-03	0.623975	2.253E-08
1.898E-03	0.687521	2.575E-08
1.980E-03	0.749474	3.004E-08
2.100E-03	0.809122	3.605E-08
2.253E-03	0.861341	4.506E-08
2.432E-03	0.900817	5.007E-08
2.617E-03	0.928546	5.632E-08
2.821E-03	0.945249	6.437E-08
3.047E-03	0.953761	7.510E-08
3.300E-03	0.958073	9.014E-08
3.577E-03	0.960171	1.001E-07
3.881E-03	0.958216	1.126E-07
4.214E-03	0.964257	1.287E-07
4.581E-03	0.970010	1.502E-07
4.982E-03	0.975555	1.802E-07
5.418E-03	0.980887	2.253E-07
5.895E-03	0.985923	3.004E-07
6.417E-03	0.990748	4.506E-07
6.972E-03	0.995413	9.011E-07
7.534E-03	0.999801	1.001E-06
8.131E-03	0.996205	1.126E-06
8.772E-03	0.996635	1.287E-06
9.078E-03	0.997051	1.502E-06
9.518E-03	0.997512	1.802E-06
9.958E-03	0.997953	2.253E-06
1.041E-02	0.998463	3.004E-06
1.092E-02	0.998962	4.505E-06
1.143E-02	0.999476	9.011E-06
1.191E-02	0.999523	1.001E-05
1.334E-02	0.999581	1.126E-05
1.474E-02	0.999633	1.267E-05

NOT REPRODUCIBLE

1.523E-02	0.999686	1.502E-05
1.614E-02	0.999738	1.802E-05
1.744E-02	0.999791	2.253E-05
1.919E-02	0.999844	3.004E-05
2.197E-02	0.999897	4.505E-05
2.758E-02	0.999950	9.011E-05
2.857E-02	0.999955	1.001E-04
2.981E-02	0.999960	1.126E-04
3.117E-02	0.999965	1.287E-04
3.281E-02	0.999971	1.502E-04
3.487E-02	0.999976	1.802E-04
3.750E-02	0.999981	2.253E-04
4.134E-02	0.999986	3.004E-04
4.733E-02	0.999991	4.505E-04
5.903E-02	0.999995	9.011E-04
6.176E-02	0.999997	1.001E-03
6.423E-02	0.999997	1.126E-03
6.710E-02	0.999998	1.287E-03
7.070E-02	0.999998	1.502E-03
7.514E-02	0.999999	1.802E-03
8.098E-02	0.999999	2.253E-03
8.907E-02	1.000000	3.004E-03
1.020E-01	1.000000	4.506E-03
1.235E-01	1.000000	9.014E-03
1.331E-01	1.000000	1.002E-02
1.334E-01	1.000000	1.127E-02
1.447E-01	1.000000	1.283E-02
1.582E-01	1.000000	1.503E-02
1.614E-01	1.000000	1.803E-02
1.744E-01	1.000000	2.255E-02
1.920E-01	1.000000	3.007E-02
2.189E-01	1.000000	4.513E-02
2.771E-01	1.000000	9.043E-02

NOT REPRODUCIBLE

CALCIUM CHLORIDE
(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.431E-03	0.391635	1.502E-07
3.571E-03	0.442501	1.639E-07
3.673E-03	0.486813	1.802E-07
3.791E-03	0.560168	2.003E-07
3.927E-03	0.623957	2.253E-07
4.083E-03	0.687501	2.575E-07
4.259E-03	0.749454	3.004E-07
4.530E-03	0.809101	3.605E-07
4.859E-03	0.861820	4.506E-07
5.017E-03	0.880796	5.006E-07
5.205E-03	0.898575	5.632E-07
5.431E-03	0.915229	6.437E-07
5.713E-03	0.930741	7.509E-07
6.081E-03	0.945054	9.011E-07
6.254E-03	0.951753	1.001E-06
6.459E-03	0.958198	1.126E-06
6.713E-03	0.964249	1.287E-06
7.030E-03	0.969993	1.502E-06
7.439E-03	0.975539	1.802E-06
7.990E-03	0.980872	2.253E-06
8.140E-03	0.985909	3.004E-06
8.340E-03	0.990736	4.506E-06
1.023E-02	0.995403	9.011E-06
1.211E-02	0.995792	1.001E-05
1.338E-02	0.996196	1.126E-05
1.430E-02	0.996617	1.287E-05
1.501E-02	0.997053	1.502E-05
1.558E-02	0.997503	1.802E-05
1.605E-02	0.997973	2.253E-05
1.645E-02	0.998459	3.004E-05
1.680E-02	0.998963	4.505E-05
1.710E-02	0.999471	9.011E-05
1.737E-02	0.999924	1.001E-04
1.761E-02	0.999576	1.126E-04
1.783E-02	0.999829	1.237E-04
1.803E-02		
1.821E-02		
1.838E-02		
1.854E-02		
1.868E-02		
1.882E-02		
1.894E-02		
1.906E-02		
1.917E-02		
1.927E-02		
1.937E-02		
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NOT REPRODUCIBLE

NOT REPRODUCIBLE

CALCIUM CHLORIDE

(CRYSTAL MASS = 1.000E-05 GM TEMPERATURE = 20C)

[illegible]	SATURATION RATIO	WATER GAINED(GM)
[illegible]	[illegible]	1.502E-06
[illegible]	0.442495	1.639E-06
[illegible]	0.498806	1.802E-06
[illegible]	0.550160	2.003E-06
[illegible]	0.623949	2.253E-06
[illegible]	0.687492	2.575E-06
[illegible]	0.749444	3.004E-06
[illegible]	0.809091	3.605E-06
[illegible]	0.851819	4.506E-06
[illegible]	0.880786	5.006E-06
[illegible]	0.893560	5.632E-06
[illegible]	0.915219	6.437E-06
[illegible]	0.930732	7.509E-06
[illegible]	0.945045	9.011E-06
[illegible]	0.951744	1.001E-05
[illegible]	0.958190	1.126E-05
[illegible]	0.964231	1.287E-05
[illegible]	0.968386	1.502E-05
[illegible]	0.975531	1.802E-05
[illegible]	0.980865	2.253E-05
[illegible]	0.985903	3.004E-05
[illegible]	0.990731	4.505E-05
[illegible]	0.995399	9.011E-05
[illegible]	0.995788	1.001E-04
[illegible]	0.996192	1.126E-04
[illegible]	0.996613	1.287E-04
[illegible]	0.997049	1.502E-04
[illegible]	0.997501	1.802E-04
[illegible]	0.997969	2.253E-04
[illegible]	0.998453	3.004E-04
[illegible]	0.998953	4.505E-04
[illegible]	0.999469	9.011E-04
[illegible]	0.999522	1.001E-03
[illegible]	0.999574	1.126E-03
[illegible]	0.999627	1.287E-03

7.070E-02	0.999680	1.502E-03
7.513E-02	0.999733	1.802E-03
8.093E-02	0.999786	2.253E-03
8.907E-02	0.999840	3.003E-03
1.020E-01	0.999893	4.505E-03
1.285E-01	0.999947	9.010E-03
1.331E-01	0.999952	1.001E-02
1.384E-01	0.999958	1.126E-02
1.447E-01	0.999963	1.287E-02
1.523E-01	0.999968	1.502E-02
1.619E-01	0.999974	1.802E-02
1.743E-01	0.999979	2.253E-02
1.919E-01	0.999984	3.003E-02
2.197E-01	0.999990	4.505E-02
2.768E-01	0.999995	9.010E-02
2.867E-01	0.999996	1.001E-01
2.981E-01	0.999996	1.126E-01
3.117E-01	0.999997	1.287E-01
3.281E-01	0.999997	1.502E-01
3.487E-01	0.999998	1.802E-01
3.756E-01	0.999998	2.253E-01
4.134E-01	0.999999	3.004E-01
4.733E-01	0.999999	4.506E-01
5.963E-01	1.000000	9.013E-01
6.176E-01	1.000000	1.002E 00
6.424E-01	1.000000	1.127E 00
6.715E-01	1.000000	1.268E 00
7.071E-01	1.000000	1.503E 00
7.514E-01	1.000000	1.803E 00
8.093E-01	1.000000	2.254E 00
8.910E-01	1.000000	3.007E 00
1.020E 00	1.000000	4.513E 00
1.286E 00	1.000000	9.042E 00

CALCIUM CHLORIDE

PERCENTAGE	MOLALITY	DENSITY
0.40	6.007	1.3957
0.35	4.851	1.3373
0.30	3.861	1.2916
0.25	3.003	1.2284
0.20	2.252	1.1775
0.18	1.976	1.1578
0.16	1.716	1.1386
0.14	1.467	1.1198
0.12	1.229	1.1015
0.10	1.001	1.0835
0.08	0.783	1.0659
0.06	0.575	1.0486
0.04	0.375	1.0316
0.02	0.184	1.0148
0.00	0.000	1.0000

(6) POTASSIUM CHLORIDE

POTASSIUM CHLORIDE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
74.56	1.98	2.0

MASS (G)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.2488E-05	2.2900E-06
1.00E-15	5.7965E-05	4.9336E-06
1.00E-14	2.6905E-04	1.0629E-05
1.00E-13	1.2488E-03	2.2900E-05
1.00E-12	5.7965E-03	4.9336E-05
1.00E-11	2.6905E-02	1.0629E-04
1.00E-10	1.2488E-01	2.2900E-04
1.00E-09	5.7965E-01	4.9336E-04
1.00E-08	2.6905E 00	1.0629E-03
1.00E-07	1.2488E 01	2.2900E-03
1.00E-06	5.7965E 01	4.9336E-03

POTASSIUM CHLORIDE
(ONE-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
4.5000	0.85309	2.12430
4.0000	0.87016	2.07065
3.5000	0.88710	2.01849
3.0000	0.90368	1.97218
2.5000	0.92014	1.92708
2.0000	0.93639	1.88527
1.8000	0.94281	1.87053
1.6000	0.94922	1.85594
1.4000	0.95557	1.84358
1.2000	0.96188	1.83340
1.0000	0.96820	1.82330
0.9000	0.97133	1.82035
0.8000	0.97448	1.81739
0.7000	0.97763	1.81445
0.6000	0.98077	1.81355
0.5000	0.98394	1.81264
0.4000	0.98708	1.81578
0.3000	0.99025	1.82090
0.2000	0.99344	1.83202
0.1000	0.99667	1.85710
0.0900	0.99697	1.87143
0.0800	0.99729	1.88576
0.0700	0.99761	1.90007
0.0600	0.99794	1.91438
0.0500	0.99827	1.92867
0.0400	0.99860	1.94295
0.0300	0.99894	1.95722
0.0200	0.99929	1.97150
0.0100	0.99964	1.98574
0.0090	0.99968	1.98717
0.0080	0.99971	1.98855
0.0070	0.99975	1.99001
0.0060	0.99978	1.99141
0.0050	0.99982	1.99283
0.0040	0.99986	1.99427

0.0030	0.99989	1.99561
0.0020	0.99993	1.99713
0.0019	0.99993	1.99709
0.0018	0.99994	1.99727
0.0017	0.99994	1.99748
0.0016	0.99994	1.99772
0.0015	0.99995	1.99771
0.0014	0.99995	1.99800
0.0013	0.99995	1.99802
0.0012	0.99996	1.99804
0.0011	0.99996	1.99806
0.0010	0.99996	1.99851
0.0009	0.99997	1.99859
0.0008	0.99997	1.99870
0.0007	0.99997	1.99884
0.0006	0.99998	1.99903
0.0005	0.99998	1.99848
0.0004	0.99999	1.99868
0.0003	0.99999	1.99902
0.0002	0.99999	1.99972
0.0001	1.00000	2.00000

POTASSIUM CHLORIDE
(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.322E-06	0.872875	2.982E-16
4.478E-06	0.889792	3.355E-16
4.652E-06	0.906467	3.834E-16
4.887E-06	0.922652	4.473E-16
5.170E-06	0.938548	5.367E-16
5.543E-06	0.954010	6.709E-16
5.730E-06	0.960028	7.454E-16
5.948E-06	0.965974	8.386E-16
6.206E-06	0.971787	9.584E-16
6.520E-06	0.977467	1.118E-15
6.914E-06	0.983046	1.342E-15
7.153E-06	0.985753	1.491E-15
7.431E-06	0.988425	1.677E-15
7.761E-06	0.991052	1.917E-15
8.161E-06	0.993599	2.236E-15
8.663E-06	0.996075	2.683E-15
9.321E-06	0.998420	3.354E-15
1.025E-05	1.000614	4.472E-15
1.172E-05	1.002544	6.708E-15
1.475E-05	1.003929	1.342E-14
1.527E-05	1.003991	1.491E-14
1.588E-05	1.004039	1.677E-14
1.660E-05	1.004068	1.917E-14
1.747E-05	1.004073	2.236E-14
1.857E-05	1.004045	2.683E-14
2.000E-05	1.003969	3.354E-14
2.201E-05	1.003822	4.472E-14
2.519E-05	1.003553	6.708E-14
3.173E-05	1.003027	1.342E-13
3.287E-05	1.002946	1.491E-13
3.418E-05	1.002855	1.677E-13
3.574E-05	1.002754	1.917E-13
3.762E-05	1.002643	2.236E-13
3.998E-05	1.002507	2.683E-13
4.307E-05	1.002350	3.354E-13

4.740E-05	1.002158	4.472E-13
5.426E-05	1.001907	6.708E-13
6.836E-05	1.001534	1.342E-12
7.080E-05	1.001484	1.491E-12
7.364E-05	1.001429	1.677E-12
7.699E-05	1.001369	1.917E-12
8.105E-05	1.001303	2.236E-12
8.613E-05	1.001228	2.683E-12
9.278E-05	1.001143	3.354E-12
1.021E-04	1.001040	4.472E-12
1.169E-04	1.000911	6.708E-12
1.473E-04	1.000725	1.342E-11
1.525E-04	1.000700	1.491E-11
1.586E-04	1.000674	1.677E-11
1.659E-04	1.000644	1.917E-11
1.746E-04	1.000612	2.236E-11
1.856E-04	1.000577	2.683E-11
1.999E-04	1.000535	3.354E-11
2.200E-04	1.000487	4.472E-11
2.518E-04	1.000425	6.709E-11
3.173E-04	1.000338	1.342E-10
3.287E-04	1.000326	1.491E-10
3.418E-04	1.000314	1.678E-10
3.574E-04	1.000300	1.917E-10
3.763E-04	1.000285	2.237E-10
3.998E-04	1.000268	2.685E-10
4.308E-04	1.000249	3.357E-10
4.741E-04	1.000226	4.477E-10
5.429E-04	1.000198	6.720E-10
6.844E-04	1.000157	1.346E-09

POTASSIUM CHLORIDE

(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.312E-06	0.862217	2.982E-15
9.647E-06	0.879220	3.355E-15
1.004E-05	0.896037	3.834E-15
1.053E-05	0.912437	4.473E-15
1.114E-05	0.928640	5.367E-15
1.194E-05	0.944531	6.709E-15
1.295E-05	0.950765	7.454E-15
1.281E-05	0.956961	8.386E-15
1.337E-05	0.963063	9.584E-15
1.405E-05	0.969082	1.118E-14
1.489E-05	0.975062	1.342E-14
1.541E-05	0.978000	1.491E-14
1.601E-05	0.980926	1.677E-14
1.672E-05	0.983838	1.917E-14
1.758E-05	0.986706	2.236E-14
1.866E-05	0.989552	2.683E-14
2.008E-05	0.992330	3.354E-14
2.208E-05	0.995050	4.472E-14
2.524E-05	0.997657	6.708E-14
3.177E-05	1.000030	1.342E-13
3.290E-05	1.000225	1.491E-13
3.421E-05	1.000417	1.677E-13
3.576E-05	1.000602	1.917E-13
3.765E-05	1.000779	2.236E-13
4.000E-05	1.000944	2.683E-13
4.308E-05	1.001089	3.354E-13
4.741E-05	1.001205	4.472E-13
5.427E-05	1.001267	6.708E-13
6.837E-05	1.001212	1.342E-12
7.081E-05	1.001193	1.491E-12
7.364E-05	1.001171	1.677E-12
7.699E-05	1.001143	1.917E-12
8.105E-05	1.001109	2.236E-12
8.613E-05	1.001066	2.683E-12
9.278E-05	1.001013	3.354E-12

1.021E-04	1.000943	4.472E-12
1.169E-04	1.000846	6.708E-12
1.473E-04	1.000693	1.342E-11
1.525E-04	1.000671	1.491E-11
1.586E-04	1.000648	1.677E-11
1.659E-04	1.000622	1.917E-11
1.746E-04	1.000593	2.236E-11
1.856E-04	1.000550	2.683E-11
1.999E-04	1.000522	3.354E-11
2.200E-04	1.000477	4.472E-11
2.518E-04	1.000419	6.708E-11
3.173E-04	1.000335	1.342E-10
3.286E-04	1.000323	1.491E-10
3.418E-04	1.000311	1.677E-10
3.573E-04	1.000298	1.917E-10
3.762E-04	1.000283	2.236E-10
3.998E-04	1.000267	2.683E-10
4.306E-04	1.000248	3.354E-10
4.740E-04	1.000225	4.472E-10
5.426E-04	1.000197	6.709E-10
6.836E-04	1.000157	1.342E-09
7.081E-04	1.000151	1.491E-09
7.365E-04	1.000145	1.678E-09
7.700E-04	1.000139	1.917E-09
8.106E-04	1.000132	2.237E-09
8.614E-04	1.000124	2.685E-09
9.280E-04	1.000115	3.357E-09
1.022E-03	1.000105	4.477E-09
1.170E-03	1.000092	6.719E-09
1.474E-03	1.000073	1.346E-08

POTASSIUM CHLORIDE

(CRYSTAL MASS = 1.000E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.000E-05	0.357314	2.982E-14
2.078E-05	0.374356	3.354E-14
2.164E-05	0.391237	3.834E-14
2.268E-05	0.907735	4.472E-14
2.400E-05	0.924076	5.367E-14
2.573E-05	0.940162	6.708E-14
2.860E-05	0.946456	7.454E-14
2.761E-05	0.952806	8.385E-14
2.881E-05	0.959041	9.583E-14
3.026E-05	0.965215	1.118E-13
3.204E-05	0.971378	1.342E-13
3.420E-05	0.974421	1.491E-13
3.449E-05	0.977465	1.677E-13
3.602E-05	0.980507	1.917E-13
3.788E-05	0.983523	2.236E-13
4.021E-05	0.986538	2.683E-13
4.326E-05	0.989516	3.354E-13
4.756E-05	0.992478	4.472E-13
5.438E-05	0.995396	6.708E-13
6.844E-05	0.998226	1.342E-12
7.088E-05	0.998482	1.491E-12
7.371E-05	0.998740	1.677E-12
7.705E-05	0.998998	1.917E-12
8.111E-05	0.999254	2.236E-12
8.618E-05	0.999508	2.683E-12
9.282E-05	0.999756	3.354E-12
1.021E-04	0.999992	4.472E-12
1.159E-04	1.000207	6.708E-12
1.473E-04	1.000371	1.342E-11
1.526E-04	1.000381	1.491E-11
1.587E-04	1.000390	1.677E-11
1.659E-04	1.000396	1.916E-11
1.746E-04	1.000399	2.236E-11
1.856E-04	1.000399	2.683E-11
1.999E-04	1.000393	3.354E-11

NOT REPRODUCIBLE

2.200E-04	1.000330	4.472E-11
2.518E-04	1.000304	6.708E-11
3.173E-04	1.000302	1.342E-10
3.286E-04	1.000294	1.491E-10
3.413E-04	1.000285	1.677E-10
3.573E-04	1.000275	1.917E-10
3.782E-04	1.000264	2.236E-10
3.993E-04	1.000250	2.683E-10
4.309E-04	1.000235	3.354E-10
4.749E-04	1.000216	4.472E-10
5.425E-04	1.000191	6.708E-10
6.336E-04	1.000153	1.342E-09
7.999E-04	1.000148	1.491E-09
7.334E-04	1.000143	1.677E-09
7.999E-04	1.000137	1.917E-09
8.105E-04	1.000130	2.236E-09
8.613E-04	1.000123	2.683E-09
9.278E-04	1.000114	3.354E-09
1.021E-03	1.000104	4.472E-09
1.161E-03	1.000091	6.708E-09
1.473E-03	1.000072	1.342E-08
1.526E-03	1.000070	1.491E-08
1.587E-03	1.000067	1.678E-08
1.659E-03	1.000064	1.917E-08
1.746E-03	1.000061	2.237E-08
1.856E-03	1.000058	2.685E-08
1.999E-03	1.000054	3.357E-08
2.201E-03	1.000049	4.477E-08
2.520E-03	1.000042	6.719E-08
3.177E-03	1.000034	1.346E-07

POTASSIUM CHLORIDE
(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.322E-05	0.855048	2.982E-13
4.478E-05	0.872107	3.354E-13
4.662E-05	0.889017	3.833E-13
4.887E-05	0.905560	4.472E-13
5.170E-05	0.921965	5.367E-13
5.543E-05	0.938142	6.708E-13
5.730E-05	0.944521	7.454E-13
5.948E-05	0.950884	8.385E-13
6.206E-05	0.957179	9.583E-13
6.520E-05	0.963425	1.118E-12
6.914E-05	0.969673	1.342E-12
7.153E-05	0.972765	1.491E-12
7.431E-05	0.975863	1.677E-12
7.761E-05	0.978965	1.917E-12
8.161E-05	0.982049	2.236E-12
8.663E-05	0.985142	2.683E-12
9.321E-05	0.988212	3.354E-12
1.025E-04	0.991286	4.472E-12
1.172E-04	0.994349	6.708E-12
1.474E-04	0.997390	1.342E-11
1.527E-04	0.997674	1.491E-11
1.588E-04	0.997963	1.677E-11
1.660E-04	0.998254	1.917E-11
1.747E-04	0.998547	2.236E-11
1.857E-04	0.998842	2.683E-11
2.000E-04	0.999137	3.354E-11
2.201E-04	0.999440	4.472E-11
2.519E-04	0.999716	6.708E-11
3.173E-04	0.999980	1.342E-10
3.287E-04	1.000004	1.491E-10
3.418E-04	1.000027	1.677E-10
3.574E-04	1.000049	1.916E-10
3.762E-04	1.000070	2.236E-10
3.998E-04	1.000089	2.683E-10
4.306E-04	1.000105	3.354E-10

4.740E-04	1.000118	4.472E-10
5.426E-04	1.000126	6.708E-10
6.336E-04	1.000121	1.341E-09
7.080E-04	1.000119	1.491E-09
7.354E-04	1.000117	1.677E-09
7.699E-04	1.000114	1.916E-09
8.105E-04	1.000111	2.236E-09
8.612E-04	1.000107	2.683E-09
9.277E-04	1.000101	3.354E-09
1.021E-03	1.000094	4.472E-09
1.169E-03	1.000085	6.707E-09
1.473E-03	1.000069	1.342E-08
1.525E-03	1.000067	1.491E-08
1.586E-03	1.000065	1.677E-08
1.659E-03	1.000062	1.916E-08
1.746E-03	1.000059	2.236E-08
1.856E-03	1.000056	2.683E-08
1.999E-03	1.000052	3.354E-08
2.200E-03	1.000048	4.472E-08
2.518E-03	1.000042	6.708E-08
3.173E-03	1.000033	1.342E-07
3.287E-03	1.000032	1.491E-07
3.418E-03	1.000031	1.678E-07
3.574E-03	1.000030	1.917E-07
3.762E-03	1.000028	2.237E-07
3.998E-03	1.000027	2.685E-07
4.307E-03	1.000025	3.357E-07
4.741E-03	1.000023	4.477E-07
5.429E-03	1.000020	6.719E-07
6.844E-03	1.000016	1.346E-06

POTASSIUM CHLORIDE
(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.311E-05	0.853998	2.982E-12
9.647E-05	0.871065	3.354E-12
1.004E-04	0.887989	3.833E-12
1.053E-04	0.904553	4.472E-12
1.114E-04	0.920987	5.367E-12
1.194E-04	0.937205	6.708E-12
1.235E-04	0.943606	7.453E-12
1.281E-04	0.949993	8.385E-12
1.337E-04	0.956316	9.583E-12
1.405E-04	0.962595	1.118E-11
1.489E-04	0.968882	1.342E-11
1.541E-04	0.971997	1.491E-11
1.601E-04	0.975120	1.677E-11
1.672E-04	0.978250	1.917E-11
1.758E-04	0.981366	2.236E-11
1.866E-04	0.984495	2.683E-11
2.003E-04	0.987608	3.354E-11
2.208E-04	0.990733	4.472E-11
2.524E-04	0.993863	6.708E-11
3.177E-04	0.997002	1.342E-10
3.290E-04	0.997300	1.491E-10
3.421E-04	0.997602	1.677E-10
3.576E-04	0.997909	1.916E-10
3.765E-04	0.998219	2.236E-10
4.000E-04	0.998533	2.683E-10
4.308E-04	0.998850	3.354E-10
4.741E-04	0.999169	4.472E-10
5.427E-04	0.999488	6.708E-10
6.836E-04	0.999799	1.341E-09
7.081E-04	0.999829	1.491E-09
7.364E-04	0.999859	1.677E-09
7.699E-04	0.999888	1.916E-09
8.105E-04	0.999917	2.236E-09
8.613E-04	0.999945	2.683E-09
9.278E-04	0.999972	3.354E-09

1.021E-03	0.999997	4.472E-09
1.169E-03	1.000020	6.707E-09
1.473E-03	1.000037	1.341E-08
1.525E-03	1.000038	1.491E-08
1.586E-03	1.000039	1.677E-08
1.659E-03	1.000039	1.916E-08
1.746E-03	1.000040	2.236E-08
1.855E-03	1.000040	2.683E-08
1.999E-03	1.000039	3.354E-08
2.200E-03	1.000038	4.472E-08
2.518E-03	1.000035	6.707E-08
3.173E-03	1.000030	1.341E-07
3.286E-03	1.000029	1.491E-07
3.418E-03	1.000028	1.677E-07
3.573E-03	1.000027	1.916E-07
3.762E-03	1.000026	2.236E-07
3.998E-03	1.000025	2.683E-07
4.306E-03	1.000023	3.354E-07
4.740E-03	1.000022	4.472E-07
5.426E-03	1.000019	6.708E-07
6.836E-03	1.000015	1.342E-06
7.091E-03	1.000015	1.491E-06
7.364E-03	1.000014	1.678E-06
7.700E-03	1.000014	1.917E-06
8.106E-03	1.000013	2.237E-06
8.614E-03	1.000012	2.685E-06
9.280E-03	1.000011	3.356E-06
1.021E-02	1.000010	4.477E-06
1.170E-02	1.000009	6.719E-06
1.474E-02	1.000007	1.346E-05

POTASSIUM CHLORIDE
(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.006E-04	0.853511	2.981E-11
2.078E-04	0.870592	3.354E-11
2.164E-04	0.887512	3.833E-11
2.268E-04	0.904085	4.472E-11
2.400E-04	0.920534	5.366E-11
2.573E-04	0.936771	6.708E-11
2.660E-04	0.943181	7.453E-11
2.761E-04	0.949579	8.385E-11
2.881E-04	0.955916	9.583E-11
3.026E-04	0.962210	1.118E-10
3.209E-04	0.968516	1.342E-10
3.320E-04	0.971641	1.491E-10
3.449E-04	0.974775	1.677E-10
3.602E-04	0.977918	1.916E-10
3.788E-04	0.981049	2.236E-10
4.021E-04	0.984195	2.683E-10
4.326E-04	0.987328	3.354E-10
4.756E-04	0.990477	4.472E-10
5.438E-04	0.993638	6.708E-10
6.844E-04	0.996822	1.341E-09
7.088E-04	0.997126	1.491E-09
7.370E-04	0.997435	1.677E-09
7.705E-04	0.997748	1.916E-09
8.110E-04	0.998067	2.236E-09
8.617E-04	0.998390	2.683E-09
9.282E-04	0.998717	3.354E-09
1.021E-03	0.999048	4.472E-09
1.169E-03	0.999382	6.707E-09
1.473E-03	0.999715	1.341E-08
1.525E-03	0.999748	1.491E-08
1.587E-03	0.999781	1.677E-08
1.659E-03	0.999814	1.916E-08
1.746E-03	0.999846	2.236E-08
1.856E-03	0.999878	2.683E-08
1.999E-03	0.999910	3.354E-08

2.200E-03	0.999941	4.471E-08
2.518E-03	0.999971	6.707E-08
2.173E-03	0.999998	1.341E-07
3.286E-03	1.000000	1.490E-07
3.418E-03	1.000003	1.677E-07
3.573E-03	1.000005	1.916E-07
3.762E-03	1.000007	2.236E-07
3.997E-03	1.000009	2.683E-07
4.306E-03	1.000011	3.354E-07
4.740E-03	1.000012	4.471E-07
5.425E-03	1.000013	6.707E-07
6.836E-03	1.000012	1.341E-06
7.030E-03	1.000012	1.491E-06
7.363E-03	1.000012	1.677E-06
7.699E-03	1.000011	1.916E-06
8.105E-03	1.000011	2.236E-06
8.612E-03	1.000011	2.683E-06
9.277E-03	1.000010	3.354E-06
1.021E-02	1.000009	4.472E-06
1.169E-02	1.000008	6.708E-06
1.473E-02	1.000007	1.342E-05
1.525E-02	1.000007	1.491E-05
1.587E-02	1.000006	1.677E-05
1.659E-02	1.000006	1.917E-05
1.746E-02	1.000006	2.237E-05
1.856E-02	1.000006	2.685E-05
1.999E-02	1.000005	3.356E-05
2.201E-02	1.000005	4.477E-05
2.520E-02	1.000004	6.719E-05
3.177E-02	1.000003	1.346E-04

POTASSIUM CHLORIDE
(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.322E-04	0.853296	2.981E-10
4.477E-04	0.870358	3.354E-10
4.662E-04	0.887291	3.833E-10
4.887E-04	0.903869	4.472E-10
5.170E-04	0.920323	5.366E-10
5.543E-04	0.936570	6.708E-10
5.730E-04	0.942984	7.453E-10
5.948E-04	0.949388	8.385E-10
6.206E-04	0.955730	9.582E-10
6.520E-04	0.962032	1.118E-09
6.913E-04	0.968346	1.342E-09
7.153E-04	0.971475	1.491E-09
7.431E-04	0.974615	1.677E-09
7.761E-04	0.977764	1.916E-09
8.161E-04	0.980902	2.236E-09
8.663E-04	0.984056	2.683E-09
9.321E-04	0.987197	3.354E-09
1.025E-03	0.990358	4.472E-09
1.172E-03	0.993533	6.707E-09
1.474E-03	0.996738	1.341E-08
1.527E-03	0.997045	1.491E-08
1.588E-03	0.997357	1.677E-08
1.660E-03	0.997674	1.916E-08
1.747E-03	0.997996	2.236E-08
1.857E-03	0.998323	2.683E-08
2.000E-03	0.998655	3.354E-08
2.201E-03	0.998992	4.471E-08
2.519E-03	0.999333	6.707E-08
3.173E-03	0.999676	1.341E-07
3.287E-03	0.999711	1.490E-07
3.418E-03	0.999745	1.677E-07
3.574E-03	0.999779	1.916E-07
3.762E-03	0.999813	2.236E-07
3.998E-03	0.999847	2.683E-07
4.306E-03	0.999881	3.354E-07

4.740E-03	0.999915	4.471E-07
5.425E-03	0.999948	6.707E-07
6.336E-03	0.999980	1.341E-06
7.030E-03	0.999983	1.490E-06
7.363E-03	0.999986	1.677E-06
7.699E-03	0.999989	1.916E-06
8.104E-03	0.999992	2.236E-06
8.612E-03	0.999994	2.683E-06
9.277E-03	0.999997	3.353E-06
1.021E-02	1.000000	4.471E-06
1.169E-02	1.000002	6.707E-06
1.473E-02	1.000004	1.341E-05
1.525E-02	1.000004	1.490E-05
1.586E-02	1.000004	1.677E-05
1.659E-02	1.000004	1.916E-05
1.746E-02	1.000004	2.236E-05
1.855E-02	1.000004	2.683E-05
1.999E-02	1.000004	3.354E-05
2.200E-02	1.000004	4.472E-05
2.518E-02	1.000004	6.708E-05
3.173E-02	1.000003	1.342E-04
3.287E-02	1.000003	1.491E-04
3.418E-02	1.000003	1.677E-04
3.574E-02	1.000003	1.917E-04
3.762E-02	1.000003	2.237E-04
3.998E-02	1.000002	2.685E-04
4.307E-02	1.000002	3.356E-04
4.741E-02	1.000002	4.476E-04
5.428E-02	1.000002	6.719E-04
6.844E-02	1.000002	1.346E-03

POTASSIUM CHLORIDE
(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.311E-04	0.853181	2.981E-09
9.646E-04	0.870254	3.354E-09
1.004E-03	0.887188	3.833E-09
1.053E-03	0.903768	4.472E-09
1.114E-03	0.920226	5.366E-09
1.194E-03	0.936476	6.708E-09
1.235E-03	0.942893	7.453E-09
1.281E-03	0.949299	8.384E-09
1.337E-03	0.955644	9.582E-09
1.405E-03	0.961949	1.118E-08
1.489E-03	0.968267	1.341E-08
1.541E-03	0.971399	1.491E-08
1.601E-03	0.974541	1.677E-08
1.672E-03	0.977693	1.916E-08
1.758E-03	0.980834	2.236E-08
1.866E-03	0.983991	2.683E-08
2.003E-03	0.987137	3.354E-08
2.204E-03	0.990303	4.472E-08
2.524E-03	0.993485	6.707E-08
3.177E-03	0.996699	1.341E-07
3.290E-03	0.997007	1.490E-07
3.421E-03	0.997321	1.677E-07
3.576E-03	0.997640	1.916E-07
3.764E-03	0.997963	2.236E-07
4.000E-03	0.998293	2.683E-07
4.308E-03	0.998627	3.354E-07
4.741E-03	0.998966	4.471E-07
5.427E-03	0.999310	6.707E-07
6.836E-03	0.999658	1.341E-06
7.081E-03	0.999693	1.490E-06
7.364E-03	0.999728	1.677E-06
7.699E-03	0.999763	1.916E-06
8.105E-03	0.999798	2.236E-06
8.613E-03	0.999833	2.683E-06
9.278E-03	0.999868	3.353E-06

1.021E-02	0.999903	4.471E-05
1.169E-02	0.999937	6.707E-05
1.473E-02	0.999971	1.341E-05
1.525E-02	0.999975	1.490E-05
1.586E-02	0.999978	1.677E-05
1.659E-02	0.999981	1.916E-05
1.746E-02	0.999985	2.236E-05
1.855E-02	0.999988	2.683E-05
1.999E-02	0.999991	3.353E-05
2.200E-02	0.999994	4.471E-05
2.518E-02	0.999997	6.707E-05
3.173E-02	1.000000	1.341E-04
3.286E-02	1.000000	1.490E-04
3.418E-02	1.000000	1.677E-04
3.573E-02	1.000000	1.916E-04
3.762E-02	1.000001	2.236E-04
3.997E-02	1.000001	2.683E-04
4.306E-02	1.000001	3.354E-04
4.740E-02	1.000001	4.472E-04
5.426E-02	1.000001	6.708E-04
6.336E-02	1.000 1	1.342E-03
7.081E-02	1.000 1	1.491E-03
7.364E-02	1.000001	1.677E-03
7.700E-02	1.000001	1.917E-03
8.106E-02	1.000001	2.237E-03
8.614E-02	1.000001	2.685E-03
9.280E-02	1.000001	3.356E-03
1.021E-01	1.000001	4.476E-03
1.170E-01	1.000001	6.719E-03
1.474E-01	1.000001	1.346E-02

POTASSIUM CHLORIDE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.006E-03	0.853132	2.981E-08
2.078E-03	0.870205	3.354E-08
2.164E-03	0.887141	3.833E-08
2.268E-03	0.903721	4.472E-08
2.400E-03	0.920180	5.366E-08
2.573E-03	0.936433	6.707E-08
2.660E-03	0.942850	7.453E-08
2.761E-03	0.949257	8.384E-08
2.880E-03	0.955604	9.582E-08
3.026E-03	0.961910	1.118E-07
3.209E-03	0.968230	1.341E-07
3.320E-03	0.971363	1.490E-07
3.449E-03	0.974506	1.677E-07
3.602E-03	0.977660	1.916E-07
3.788E-03	0.980802	2.236E-07
4.021E-03	0.983961	2.683E-07
4.326E-03	0.987109	3.354E-07
4.756E-03	0.990277	4.471E-07
5.438E-03	0.993462	6.707E-07
6.844E-03	0.996681	1.341E-06
7.087E-03	0.996990	1.490E-06
7.370E-03	0.997304	1.677E-06
7.705E-03	0.997624	1.916E-06
8.110E-03	0.997948	2.236E-06
8.617E-03	0.998278	2.683E-06
9.282E-03	0.998613	3.353E-06
1.021E-02	0.998954	4.471E-06
1.169E-02	0.999299	6.707E-06
1.473E-02	0.999650	1.341E-05
1.525E-02	0.999685	1.490E-05
1.587E-02	0.999720	1.677E-05
1.659E-02	0.999756	1.916E-05
1.746E-02	0.999791	2.236E-05
1.856E-02	0.999826	2.683E-05
1.999E-02	0.999862	3.353E-05

2.200E-02	0.999897	4.471E-05
2.518E-02	0.999932	6.707E-05
3.173E-02	0.999967	1.341E-04
3.286E-02	0.999971	1.490E-04
3.418E-02	0.999974	1.677E-04
3.573E-02	0.999978	1.916E-04
3.762E-02	0.999981	2.236E-04
3.997E-02	0.999985	2.683E-04
4.306E-02	0.999988	3.353E-04
4.739E-02	0.999991	4.471E-04
5.425E-02	0.999995	6.707E-04
6.835E-02	0.999998	1.341E-03
7.080E-02	0.999998	1.490E-03
7.363E-02	0.999999	1.677E-03
7.698E-02	0.999999	1.916E-03
8.104E-02	0.999999	2.236E-03
8.612E-02	0.999999	2.683E-03
9.277E-02	1.000000	3.354E-03
1.021E-01	1.000000	4.472E-03
1.169E-01	1.000000	6.708E-03
1.473E-01	1.000000	1.342E-02
1.525E-01	1.000000	1.491E-02
1.587E-01	1.000000	1.677E-02
1.659E-01	1.000000	1.917E-02
1.746E-01	1.000000	2.237E-02
1.856E-01	1.000000	2.684E-02
1.999E-01	1.000000	3.356E-02
2.201E-01	1.000000	4.476E-02
2.520E-01	1.000000	6.718E-02
3.176E-01	1.000000	1.346E-01

NOT REPRODUCIBLE

POTASSIUM CHLORIDE
(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.322E-03	0.853110	2.981E-07
4.477E-03	0.870133	3.354E-07
4.562E-03	0.887119	3.833E-07
4.887E-03	0.903700	4.472E-07
5.177E-03	0.920159	5.366E-07
5.543E-03	0.936412	6.707E-07
5.736E-03	0.942831	7.452E-07
5.934E-03	0.949236	8.384E-07
6.209E-03	0.955586	9.582E-07
6.519E-03	0.961892	1.118E-06
6.913E-03	0.968213	1.341E-06
7.153E-03	0.971347	1.490E-06
7.431E-03	0.974470	1.677E-06
7.751E-03	0.977644	1.916E-06
8.101E-03	0.980787	2.236E-06
8.632E-03	0.983947	2.683E-06
9.321E-03	0.987096	3.353E-06
1.025E-02	0.990265	4.471E-06
1.172E-02	0.993452	6.707E-06
1.474E-02	0.996673	1.341E-05
1.627E-02	0.998282	1.490E-05
1.788E-02	0.999896	1.677E-05
1.959E-02	0.001514	1.916E-05
1.747E-02	0.003141	2.236E-05
1.956E-02	0.004772	2.683E-05
2.188E-02	0.006407	3.353E-05
2.211E-02	0.008046	4.471E-05
2.451E-02	0.009694	6.707E-05
3.177E-02	0.013000	1.341E-04
3.231E-02	0.014681	1.490E-04
3.411E-02	0.016371	1.677E-04
3.617E-02	0.018072	1.916E-04
3.853E-02	0.019786	2.236E-04
4.128E-02	0.021513	2.683E-04
4.451E-02	0.023259	3.353E-04

4.740E-02	0.999894	4.471E-04
5.425E-02	0.999930	6.707E-04
6.335E-02	0.999966	1.341E-03
7.080E-02	0.999959	1.490E-03
7.363E-02	0.999973	1.677E-03
7.698E-02	0.999976	1.916E-03
8.104E-02	0.999980	2.236E-03
8.612E-02	0.999983	2.683E-03
9.277E-02	0.999987	3.353E-03
1.021E-01	0.999990	4.471E-03
1.159E-01	0.999994	6.707E-03
1.473E-01	0.999997	1.341E-02
1.652E-01	0.999997	1.490E-02
1.836E-01	0.999998	1.677E-02
1.959E-01	0.999998	1.916E-02
1.746E-01	0.999998	2.236E-02
1.359E-01	0.999999	2.683E-02
1.999E-01	0.999999	3.353E-02
2.200E-01	0.999999	4.471E-02
2.518E-01	1.000000	6.707E-02
3.173E-01	1.000000	1.342E-01
3.284E-01	1.000000	1.491E-01
3.416E-01	1.000000	1.677E-01
3.574E-01	1.000000	1.917E-01
3.792E-01	1.000000	2.237E-01
3.993E-01	1.000000	2.684E-01
4.337E-01	1.000000	3.356E-01
4.741E-01	1.000000	4.475E-01
5.420E-01	1.000000	6.718E-01
5.343E-01	1.000000	1.346E 00

POTASSIUM CHLORIDE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.311E-03	0.658099	2.981E-06
1.046E-02	0.870173	3.354E-06
1.104E-02	0.887108	3.833E-06
1.163E-02	0.903690	4.471E-06
1.114E-02	0.920150	5.366E-06
1.134E-02	0.936403	6.707E-06
1.234E-02	0.942822	7.452E-06
1.281E-02	0.949229	8.384E-06
1.337E-02	0.955577	9.581E-06
1.405E-02	0.961984	1.118E-05
1.443E-02	0.968205	1.341E-05
1.541E-02	0.971339	1.490E-05
1.601E-02	0.974493	1.677E-05
1.672E-02	0.977637	1.916E-05
1.758E-02	0.980780	2.236E-05
1.866E-02	0.983941	2.683E-05
2.003E-02	0.987090	3.353E-05
2.209E-02	0.990260	4.471E-05
2.524E-02	0.993447	6.707E-05
3.176E-02	0.996669	1.341E-04
3.240E-02	0.996978	1.490E-04
3.321E-02	0.997293	1.677E-04
3.576E-02	0.997613	1.916E-04
3.776E-02	0.997933	2.236E-04
4.030E-02	0.998258	2.683E-04
4.386E-02	0.998604	3.353E-04
4.791E-02	0.998946	4.471E-04
5.427E-02	0.999292	6.707E-04
6.336E-02	0.999644	1.341E-03
7.330E-02	0.999679	1.490E-03
7.354E-02	0.999715	1.677E-03
7.699E-02	0.999750	1.916E-03
8.105E-02	0.999786	2.236E-03
8.512E-02	0.999822	2.683E-03
9.277E-02	0.999857	3.353E-03

1.[illegible]E-01	0.[illegible]	4.471E-03
1.[illegible]E-01	0.[illegible]	6.706E-03
1.[illegible]E-01	0.[illegible]	1.341E-02
1.[illegible]E-01	0.[illegible]	1.490E-02
1.[illegible]E-01	0.[illegible]	1.677E-02
1.[illegible]E-01	0.[illegible]	1.916E-02
1.[illegible]E-01	0.[illegible]	2.235E-02
1.[illegible]E-01	0.[illegible]	2.683E-02
1.[illegible]E-01	0.[illegible]	3.353E-02
2.[illegible]E-01	0.[illegible]	4.471E-02
2.[illegible]E-01	0.999933	6.706E-02
3.[illegible]E-01	0.999997	1.341E-01
3.[illegible]E-01	0.999997	1.490E-01
4.[illegible]E-01	0.999997	1.677E-01
3.[illegible]E-01	0.[illegible]	1.916E-01
3.[illegible]E-01	0.999998	2.236E-01
3.[illegible]E-01	0.[illegible]	2.683E-01
4.[illegible]E-01	0.[illegible]	3.353E-01
4.[illegible]E-01	0.[illegible]	4.471E-01
5.[illegible]E-01	0.[illegible]	6.707E-01
6.[illegible]E-01	1.000000	1.342E 00
7.[illegible]E-01	1.000000	1.491E 00
8.[illegible]E-01	1.000000	1.677E 00
7.[illegible]E-01	1.000000	1.917E 00
8.[illegible]E-01	1.000000	2.237E 00
9.[illegible]E-01	1.000000	2.684E 00
9.[illegible]E-01	1.000000	3.356E 00
1.[illegible]E 00	1.000000	4.476E 00
1.[illegible]E 00	1.000000	6.718E 00
1.[illegible]E 00	1.000000	1.346E 01

POTASSIUM CHLORIDE

PERCENTAGE	MOLALITY	DENSITY
0.24	4.235	1.1623
0.22	3.783	1.1474
0.20	3.353	1.1328
0.18	2.944	1.1185
0.16	2.555	1.1043
0.14	2.183	1.0905
0.12	1.829	1.0768
0.10	1.490	1.0633
0.08	1.166	1.0500
0.06	0.856	1.0369
0.04	0.559	1.0239
0.02	0.274	1.0110
0.01	0.135	1.0046
0.00	0.000	1.0000

(7) AMMONIUM NITRATE

AMMONIUM NITRATE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
80.05	1.660	2.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.1760E-05	2.4318E-06
1.00E-15	5.4584E-05	5.2392E-06
1.00E-14	2.5336E-04	1.1288E-05
1.00E-13	1.1760E-03	2.4318E-05
1.00E-12	5.4584E-03	5.2392E-05
1.00E-11	2.5336E-02	1.1288E-04
1.00E-10	1.1760E-01	2.4318E-04
1.00E-09	5.4584E-01	5.2392E-04
1.00E-08	2.5336E 00	1.1288E-03
1.00E-07	1.1760E 01	2.4318E-03
1.00E-06	5.4584E 01	5.2392E-03

AMMONIUM NITRATE
(ONE-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VANT HOFF FACTOR
7.0000	0.85514	1.44190
6.5000	0.87411	1.45356
6.0000	0.89311	1.46344
5.5000	0.89242	1.47102
5.0000	0.90203	1.47627
4.5000	0.91223	1.47993
4.0000	0.92283	1.48230
3.5000	0.93400	1.48435
3.0000	0.94569	1.48621
2.5000	0.95800	1.48865
2.0000	0.97099	1.49221
1.8000	0.97633	1.49365
1.6000	0.98183	1.49581
1.4000	0.98753	1.49877
1.2000	0.99340	1.50341
1.0000	0.99948	1.51055
0.9000	1.00259	1.51549
0.8000	1.00576	1.52121
0.7000	1.00899	1.52792
0.6000	1.01230	1.53580
0.5000	1.01572	1.54524
0.4000	1.01926	1.55680
0.3000	1.02298	1.57132
0.2000	1.02701	1.59117
0.1000	1.03172	1.62491
0.0900	1.03227	1.63054
0.0800	1.03284	1.63709
0.0700	1.03345	1.64467
0.0600	1.03411	1.65346
0.0500	1.03485	1.66374
0.0400	1.03571	1.67592
0.0300	1.03676	1.69060
0.0200	1.03819	1.70877
0.0100	1.04049	1.73324
0.0090	1.04076	1.73624
0.0080	1.04106	1.73950
0.0070	1.04140	1.74312
0.0060	1.04179	1.74717
0.0050	1.04225	1.75177
0.0040	1.04282	1.75708
0.0030	1.04358	1.76337
0.0020	1.04469	1.77124
0.0010	1.04661	1.78249
0.0009	1.04683	1.78384
0.0008	1.04708	1.78536
0.0007	1.04736	1.78707
0.0006	1.04769	1.78904
0.0005	1.04809	1.79132
0.0004	1.04860	1.79401
0.0003	1.04931	1.79734
0.0002	1.05045	1.80200
0.0001	1.05262	1.81000
0.0000	1.05262	1.81000

0.0060	C.99979	1.98948
0.0050	C.99982	1.99126
0.0040	C.99986	1.99292
0.0030	C.99989	1.99465
0.0020	C.99993	1.99651
0.0019	C.99993	1.99665
0.0018	C.99994	1.99681
0.0017	C.99994	1.99700
0.0016	C.99994	1.99720
0.0015	0.99995	1.99716
0.0014	0.99995	1.99741
0.0013	C.99995	1.99770
0.0012	0.99996	1.99769
0.0011	0.99996	1.99806
0.0010	C.99996	1.99809
0.0009	C.99997	1.99813
0.0008	C.99997	1.99818
0.0007	C.99997	1.99825
0.0006	0.99998	1.99834
0.0005	C.99999	1.99848
0.0004	C.99999	1.99868
0.0003	0.99999	1.99902
0.0002	0.99999	1.99765
0.0001	1.00000	2.00000

AMMONIUM NITRATE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.023E-06	0.887231	2.083E-16
4.120E-06	0.895985	2.273E-16
4.225E-06	0.904747	2.500E-16
4.346E-06	0.913752	2.777E-16
4.488E-06	0.923045	3.125E-16
4.658E-06	0.932784	3.571E-16
4.866E-06	0.942754	4.166E-16
5.130E-06	0.953203	4.999E-16
5.480E-06	0.963891	6.249E-16
5.657E-06	0.968173	6.943E-16
5.863E-06	0.972617	7.811E-16
6.103E-06	0.977019	8.927E-16
6.406E-06	0.981592	1.041E-15
6.783E-06	0.986039	1.250E-15
7.012E-06	0.988234	1.389E-15
7.279E-06	0.990561	1.562E-15
7.599E-06	0.992802	1.785E-15
7.981E-06	0.995002	2.083E-15
8.465E-06	0.997152	2.499E-15
9.100E-06	0.999233	3.124E-15
9.996E-06	1.001179	4.166E-15
1.142E-05	1.002919	6.248E-15
1.439E-05	1.004152	1.250E-14
1.487E-05	1.004197	1.388E-14
1.546E-05	1.004229	1.562E-14
1.616E-05	1.004243	1.785E-14
1.701E-05	1.004233	2.083E-14
1.807E-05	1.004190	2.499E-14
1.944E-05	1.004099	3.124E-14
2.142E-05	1.003937	4.165E-14
2.491E-05	1.003652	6.248E-14
3.098E-05	1.003173	1.250E-13
3.199E-05	1.003019	1.388E-13
3.326E-05	1.002926	1.562E-13
3.478E-05	1.002822	1.785E-13

3.651E-05	1.002704	2.083E-13
3.340E-05	1.002557	2.499E-13
4.170E-05	1.002406	3.124E-13
4.012E-05	1.002239	4.165E-13
5.279E-05	1.001951	6.248E-13
6.652E-05	1.001570	1.250E-12
6.833E-05	1.001518	1.388E-12
7.169E-05	1.001462	1.562E-12
7.491E-05	1.001400	1.735E-12
7.683E-05	1.001333	2.083E-12
8.340E-05	1.001256	2.499E-12
9.027E-05	1.001168	3.124E-12
9.736E-05	1.001064	4.165E-12
1.137E-04	1.000932	6.249E-12
1.433E-04	1.000741	1.250E-11
1.434E-04	1.000716	1.388E-11
1.544E-04	1.000689	1.562E-11
1.514E-04	1.000659	1.785E-11
1.597E-04	1.000626	2.083E-11
1.805E-04	1.000589	2.499E-11
1.999E-04	1.000547	3.124E-11
2.141E-04	1.000498	4.166E-11
2.491E-04	1.000435	6.249E-11
3.038E-04	1.000345	1.250E-10
3.158E-04	1.000333	1.389E-10
3.325E-04	1.000321	1.563E-10
3.472E-04	1.000307	1.786E-10
3.691E-04	1.000291	2.084E-10
3.871E-04	1.000274	2.501E-10
4.191E-04	1.000255	3.127E-10
4.514E-04	1.000231	4.170E-10
5.282E-04	1.000202	6.259E-10
6.559E-04	1.000160	1.254E-09

AMMONIUM NITRATE

(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.677E-06	0.875336	2.083E-15
8.876E-06	0.884195	2.272E-15
9.102E-06	0.893090	2.500E-15
9.364E-06	0.902260	2.777E-15
9.670E-06	0.911755	3.124E-15
1.003E-05	0.921743	3.571E-15
1.048E-05	0.932025	4.166E-15
1.105E-05	0.942866	4.999E-15
1.181E-05	0.954051	6.249E-15
1.219E-05	0.958590	6.943E-15
1.263E-05	0.963305	7.811E-15
1.316E-05	0.968027	8.926E-15
1.380E-05	0.972873	1.041E-14
1.461E-05	0.977835	1.250E-14
1.511E-05	0.980322	1.389E-14
1.568E-05	0.982866	1.562E-14
1.636E-05	0.985402	1.785E-14
1.719E-05	0.987936	2.083E-14
1.824E-05	0.990469	2.499E-14
1.961E-05	0.992996	3.124E-14
2.154E-05	0.995483	4.165E-14
2.460E-05	0.997919	6.248E-14
3.094E-05	1.000164	1.250E-13
3.204E-05	1.000346	1.388E-13
3.331E-05	1.000524	1.562E-13
3.482E-05	1.000698	1.785E-13
3.665E-05	1.000864	2.083E-13
3.894E-05	1.001019	2.499E-13
4.194E-05	1.001155	3.124E-13
4.615E-05	1.001261	4.165E-13
5.281E-05	1.001313	6.248E-13
6.653E-05	1.001248	1.250E-12
6.890E-05	1.001228	1.388E-12
7.166E-05	1.001204	1.562E-12
7.492E-05	1.001174	1.785E-12

7.837E-05	1.001139	2.083E-12
8.491E-05	1.001095	2.499E-12
9.029E-05	1.001039	3.124E-12
9.936E-05	1.000967	4.165E-12
1.137E-04	1.000867	6.248E-12
1.433E-04	1.000709	1.250E-11
1.484E-04	1.000687	1.368E-11
1.544E-04	1.000663	1.562E-11
1.614E-04	1.000636	1.785E-11
1.699E-04	1.000607	2.083E-11
1.805E-04	1.000573	2.499E-11
1.945E-04	1.000534	3.124E-11
2.141E-04	1.000488	4.165E-11
2.450E-04	1.000428	6.248E-11
3.087E-04	1.000342	1.250E-10
3.148E-04	1.000331	1.388E-10
3.326E-04	1.000313	1.562E-10
3.477E-04	1.000304	1.785E-10
3.690E-04	1.000289	2.083E-10
3.999E-04	1.000273	2.499E-10
4.490E-04	1.000253	3.124E-10
4.512E-04	1.000230	4.166E-10
5.279E-04	1.000201	6.249E-10
6.652E-04	1.000160	1.250E-09
6.830E-04	1.000155	1.389E-09
7.150E-04	1.000149	1.563E-09
7.432E-04	1.000142	1.786E-09
7.847E-04	1.000135	2.084E-09
8.332E-04	1.000127	2.501E-09
9.033E-04	1.000118	3.127E-09
9.940E-04	1.000107	4.170E-09
1.138E-03	1.000094	6.259E-09
1.435E-03	1.000074	1.254E-08

AMMONIUM NITRATE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.869E-05	0.869870	2.083E-14
1.912E-05	0.878775	2.272E-14
1.961E-05	0.887730	2.500E-14
2.017E-05	0.896574	2.777E-14
2.083E-05	0.906562	3.124E-14
2.162E-05	0.916663	3.571E-14
2.259E-05	0.927087	4.166E-14
2.381E-05	0.938106	4.999E-14
2.544E-05	0.949522	6.248E-14
2.626E-05	0.954173	6.943E-14
2.721E-05	0.959015	7.810E-14
2.835E-05	0.963882	8.926E-14
2.974E-05	0.968894	1.041E-13
3.148E-05	0.974050	1.250E-13
3.255E-05	0.976648	1.388E-13
3.379E-05	0.979314	1.562E-13
3.526E-05	0.981987	1.785E-13
3.704E-05	0.984674	2.083E-13
3.929E-05	0.987382	2.499E-13
4.224E-05	0.990115	3.124E-13
4.640E-05	0.992851	4.165E-13
5.301E-05	0.995606	6.248E-13
6.565E-05	0.998319	1.250E-12
6.902E-05	0.998563	1.388E-12
7.377E-05	0.998810	1.562E-12
7.502E-05	0.999057	1.785E-12
7.896E-05	0.999305	2.083E-12
8.389E-05	0.999550	2.499E-12
9.035E-05	0.999791	3.124E-12
9.942E-05	1.000021	4.165E-12
1.138E-04	1.000230	6.248E-12
1.433E-04	1.000388	1.250E-11
1.484E-04	1.000397	1.388E-11
1.544E-04	1.000405	1.562E-11
1.614E-04	1.000411	1.785E-11

1.599E-04	1.000413	2.083E-11
1.806E-04	1.000412	2.499E-11
1.945E-04	1.000405	3.124E-11
2.141E-04	1.000391	4.165E-11
2.450E-04	1.000364	6.248E-11
3.087E-04	1.000310	1.250E-10
3.198E-04	1.000301	1.388E-10
3.326E-04	1.000292	1.562E-10
3.477E-04	1.000282	1.785E-10
3.660E-04	1.000270	2.083E-10
3.890E-04	1.000256	2.499E-10
4.190E-04	1.000240	3.124E-10
4.612E-04	1.000221	4.165E-10
5.279E-04	1.000195	6.248E-10
6.651E-04	1.000157	1.250E-09
6.889E-04	1.000152	1.388E-09
7.165E-04	1.000146	1.562E-09
7.491E-04	1.000140	1.785E-09
7.886E-04	1.000133	2.083E-09
8.380E-04	1.000126	2.499E-09
9.027E-04	1.000117	3.124E-09
9.936E-04	1.000106	4.165E-09
1.137E-03	1.000093	6.248E-09
1.433E-03	1.000074	1.250E-08
1.434E-03	1.000072	1.389E-08
1.544E-03	1.000069	1.563E-08
1.514E-03	1.000066	1.786E-08
1.699E-03	1.000063	2.084E-08
1.806E-03	1.000059	2.501E-08
1.945E-03	1.000055	3.126E-08
2.141E-03	1.000050	4.170E-08
2.452E-03	1.000043	6.258E-08
3.091E-03	1.000034	1.254E-07

AMMONIUM NITRATE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.027E-05	0.867344	2.083E-13
4.120E-05	0.876271	2.272E-13
4.225E-05	0.885253	2.499E-13
4.340E-05	0.894532	2.777E-13
4.488E-05	0.904161	3.124E-13
4.553E-05	0.914314	3.571E-13
4.856E-05	0.924804	4.166E-13
5.130E-05	0.935905	4.999E-13
5.480E-05	0.947428	6.248E-13
5.697E-05	0.952131	6.942E-13
5.853E-05	0.957031	7.810E-13
6.108E-05	0.961963	8.926E-13
6.406E-05	0.967053	1.041E-12
6.783E-05	0.972298	1.250E-12
7.012E-05	0.974947	1.388E-12
7.279E-05	0.977670	1.562E-12
7.596E-05	0.980405	1.785E-12
7.981E-05	0.983163	2.083E-12
8.454E-05	0.985952	2.499E-12
9.100E-05	0.988730	3.124E-12
9.996E-05	0.991631	4.165E-12
1.142E-04	0.994535	6.248E-12
1.436E-04	0.997463	1.250E-11
1.437E-04	0.997737	1.388E-11
1.546E-04	0.998015	1.562E-11
1.616E-04	0.998296	1.785E-11
1.701E-04	0.998582	2.083E-11
1.807E-04	0.998870	2.499E-11
1.946E-04	0.999159	3.124E-11
2.142E-04	0.999446	4.165E-11
2.451E-04	0.999728	6.248E-11
3.088E-04	0.999988	1.250E-10
3.198E-04	1.000012	1.388E-10
3.326E-04	1.000035	1.562E-10
3.479E-04	1.000056	1.785E-10

3.661E-04	1.000076	2.083E-10
3.890E-04	1.000095	2.499E-10
4.190E-04	1.000111	3.124E-10
4.612E-04	1.000124	4.165E-10
5.279E-04	1.000130	6.248E-10
6.651E-04	1.000124	1.249E-09
6.889E-04	1.000123	1.388E-09
7.165E-04	1.000120	1.562E-09
7.491E-04	1.000117	1.785E-09
7.886E-04	1.000114	2.082E-09
8.380E-04	1.000109	2.499E-09
9.027E-04	1.000104	3.124E-09
9.936E-04	1.000097	4.165E-09
1.137E-03	1.000087	6.247E-09
1.433E-03	1.000071	1.250E-08
1.484E-03	1.000069	1.388E-08
1.544E-03	1.000066	1.562E-08
1.614E-03	1.000064	1.785E-08
1.699E-03	1.000061	2.083E-08
1.805E-03	1.000057	2.499E-08
1.945E-03	1.000053	3.124E-08
2.141E-03	1.000049	4.165E-08
2.450E-03	1.000043	6.248E-08
3.088E-03	1.000034	1.250E-07
3.198E-03	1.000033	1.389E-07
3.326E-03	1.000032	1.562E-07
3.478E-03	1.000030	1.786E-07
3.661E-03	1.000029	2.084E-07
3.891E-03	1.000027	2.501E-07
4.191E-03	1.000025	3.126E-07
4.613E-03	1.000023	4.170E-07
5.282E-03	1.000020	6.258E-07
6.659E-03	1.000016	1.254E-06

AMMONIUM NITRATE

(CRYSTAL MASS = 1.00E-12 GM . TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIC	WATER GAINED(GM)
8.677E-05	0.866174	2.083E-12
8.876E-05	0.875111	2.272E-12
9.102E-05	0.884106	2.499E-12
9.363E-05	0.893400	2.777E-12
9.670E-05	0.903049	3.124E-12
1.004E-04	0.913226	3.570E-12
1.048E-04	0.923746	4.165E-12
1.105E-04	0.934885	4.999E-12
1.181E-04	0.946457	6.248E-12
1.219E-04	0.951184	6.942E-12
1.263E-04	0.956111	7.810E-12
1.316E-04	0.961074	8.926E-12
1.380E-04	0.966199	1.041E-11
1.461E-04	0.971486	1.250E-11
1.511E-04	0.974159	1.388E-11
1.568E-04	0.976908	1.562E-11
1.636E-04	0.979672	1.785E-11
1.719E-04	0.982463	2.083E-11
1.824E-04	0.985289	2.499E-11
1.961E-04	0.988161	3.124E-11
2.154E-04	0.991066	4.165E-11
2.460E-04	0.994038	6.248E-11
3.094E-04	0.997067	1.250E-10
3.203E-04	0.997353	1.388E-10
3.331E-04	0.997646	1.562E-10
3.482E-04	0.997943	1.785E-10
3.665E-04	0.998246	2.083E-10
3.894E-04	0.998554	2.499E-10
4.193E-04	0.998865	3.124E-10
4.615E-04	0.999180	4.165E-10
5.281E-04	0.999494	6.248E-10
6.653E-04	0.999803	1.249E-09
6.890E-04	0.999833	1.388E-09
7.166E-04	0.999863	1.562E-09
7.492E-04	0.999892	1.785E-09

7.887E-04	0.999920	2.082E-09
8.341E-04	0.999948	2.499E-09
9.028E-04	0.999975	3.124E-09
9.936E-04	1.000000	4.165E-09
1.137E-03	1.000022	6.247E-09
1.433E-03	1.000038	1.249E-08
1.484E-03	1.000040	1.388E-08
1.544E-03	1.000040	1.562E-08
1.614E-03	1.000041	1.785E-08
1.699E-03	1.000041	2.082E-08
1.805E-03	1.000041	2.499E-08
1.945E-03	1.000040	3.124E-08
2.141E-03	1.000039	4.165E-08
2.450E-03	1.000036	6.247E-08
3.087E-03	1.000031	1.249E-07
3.198E-03	1.000030	1.388E-07
3.326E-03	1.000029	1.562E-07
3.477E-03	1.000028	1.785E-07
3.660E-03	1.000027	2.083E-07
3.890E-03	1.000026	2.499E-07
4.190E-03	1.000024	3.124E-07
4.612E-03	1.000022	4.165E-07
5.279E-03	1.000019	6.248E-07
6.652E-03	1.000016	1.250E-06
6.890E-03	1.000015	1.389E-06
7.166E-03	1.000015	1.562E-06
7.492E-03	1.000014	1.736E-06
7.887E-03	1.000013	2.084E-06
8.382E-03	1.000013	2.501E-06
9.030E-03	1.000012	3.126E-06
9.939E-03	1.000011	4.170E-06
1.138E-02	1.000009	6.258E-06
1.435E-02	1.000007	1.254E-05

AMMONIUM NITRATE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C).

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.359E-04	0.865631	2.083E-11
1.912E-04	0.874573	2.272E-11
1.961E-04	0.883574	2.499E-11
2.017E-04	0.892875	2.777E-11
2.083E-04	0.902533	3.124E-11
2.162E-04	0.912721	3.570E-11
2.259E-04	0.923255	4.165E-11
2.381E-04	0.934412	4.998E-11
2.544E-04	0.946007	6.248E-11
2.626E-04	0.950745	6.942E-11
2.721E-04	0.955684	7.810E-11
2.835E-04	0.960662	8.925E-11
2.974E-04	0.965803	1.041E-10
3.148E-04	0.971109	1.250E-10
3.255E-04	0.973793	1.388E-10
3.379E-04	0.976554	1.562E-10
3.526E-04	0.979332	1.785E-10
3.704E-04	0.982138	2.083E-10
3.929E-04	0.984982	2.499E-10
4.224E-04	0.987874	3.124E-10
4.640E-04	0.990803	4.165E-10
5.301E-04	0.993807	6.248E-10
6.665E-04	0.996883	1.249E-09
6.902E-04	0.997176	1.388E-09
7.177E-04	0.997475	1.562E-09
7.502E-04	0.997780	1.785E-09
7.896E-04	0.998091	2.082E-09
8.389E-04	0.998407	2.499E-09
9.034E-04	0.998729	3.124E-09
9.942E-04	0.999056	4.165E-09
1.138E-03	0.999386	6.247E-09
1.433E-03	0.999717	1.249E-08
1.484E-03	0.999750	1.388E-08
1.544E-03	0.999783	1.562E-08
1.614E-03	0.999815	1.785E-08

1.699E-03	C.999848	2.082E-08
1.806E-03	0.999880	2.499E-08
1.945E-03	C.999911	3.124E-08
2.141E-03	0.999942	4.165E-08
2.450E-03	0.999972	6.247E-08
3.087E-03	C.999999	1.249E-07
3.198E-03	1.000001	1.388E-07
3.326E-03	1.000003	1.562E-07
3.477E-03	1.000005	1.785E-07
3.660E-03	1.000008	2.082E-07
3.890E-03	1.000009	2.499E-07
4.190E-03	1.000011	3.124E-07
4.612E-03	1.000012	4.165E-07
5.279E-03	1.000013	6.247E-07
6.651E-03	1.000012	1.249E-06
6.889E-03	1.000012	1.388E-06
7.165E-03	1.000012	1.562E-06
7.491E-03	1.000012	1.785E-06
7.886E-03	1.000011	2.082E-06
8.380E-03	1.000011	2.499E-06
9.027E-03	1.000010	3.124E-06
9.936E-03	1.000010	4.165E-06
1.137E-02	1.000009	6.248E-06
1.433E-02	1.000007	1.250E-05
1.484E-02	1.000007	1.389E-05
1.544E-02	1.000007	1.562E-05
1.614E-02	1.000006	1.786E-05
1.699E-02	1.000006	2.084E-05
1.806E-02	1.000006	2.501E-05
1.945E-02	1.000005	3.126E-05
2.141E-02	1.000005	4.170E-05
2.452E-02	1.000004	6.258E-05
3.091E-02	1.000003	1.254E-04

AMMONIUM NITRATE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS (CM)	SATURATION RATIO	WATER GAINED(GM)
4.127E-04	0.865380	2.083E-10
4.120E-04	0.874323	2.272E-10
4.225E-04	0.883327	2.499E-10
4.334E-04	0.892632	2.777E-10
4.448E-04	0.902294	3.124E-10
4.563E-04	0.912487	3.570E-10
4.686E-04	0.923025	4.165E-10
5.130E-04	0.934193	4.998E-10
5.480E-04	0.945798	6.248E-10
5.659E-04	0.950541	6.942E-10
5.852E-04	0.955486	7.910E-10
6.107E-04	0.960471	8.925E-10
6.406E-04	0.965619	1.041E-09
6.782E-04	0.970934	1.250E-09
7.012E-04	0.973623	1.388E-09
7.279E-04	0.976390	1.562E-09
7.596E-04	0.979174	1.785E-09
7.981E-04	0.981987	2.082E-09
8.464E-04	0.984839	2.499E-09
9.100E-04	0.987741	3.124E-09
9.996E-04	0.990682	4.165E-09
1.142E-03	0.993700	6.247E-09
1.439E-03	0.996797	1.249E-08
1.487E-03	0.997093	1.388E-08
1.549E-03	0.997395	1.562E-08
1.616E-03	0.997704	1.785E-08
1.701E-03	0.998018	2.082E-08
1.807E-03	0.998339	2.499E-08
1.946E-03	0.998666	3.124E-08
2.142E-03	0.998998	4.165E-08
2.451E-03	0.999336	6.247E-08
3.088E-03	0.999678	1.249E-07
3.198E-03	0.999712	1.388E-07
3.326E-03	0.999746	1.562E-07
3.477E-03	0.999780	1.785E-07

3.661E-03	0.999814	2.082E-07
3.890E-03	0.999848	2.499E-07
4.190E-03	0.999882	3.124E-07
4.612E-03	0.999915	4.165E-07
5.279E-03	0.999948	6.247E-07
6.651E-03	0.999980	1.249E-06
6.889E-03	0.999983	1.388E-06
7.165E-03	0.999986	1.562E-06
7.491E-03	0.999989	1.785E-06
7.886E-03	0.999992	2.082E-06
8.380E-03	0.999995	2.499E-06
9.027E-03	0.999997	3.124E-06
9.935E-03	1.000000	4.165E-06
1.137E-02	1.000002	6.247E-06
1.433E-02	1.000004	1.249E-05
1.434E-02	1.000004	1.389E-05
1.544E-02	1.000004	1.562E-05
1.614E-02	1.000004	1.785E-05
1.699E-02	1.000004	2.082E-05
1.805E-02	1.000004	2.499E-05
1.945E-02	1.000004	3.124E-05
2.141E-02	1.000004	4.165E-05
2.450E-02	1.000004	6.248E-05
3.087E-02	1.000003	1.250E-04
3.193E-02	1.000003	1.389E-04
3.326E-02	1.000003	1.562E-04
3.477E-02	1.000003	1.786E-04
3.661E-02	1.000003	2.083E-04
3.890E-02	1.000003	2.500E-04
4.191E-02	1.000002	3.126E-04
4.613E-02	1.000002	4.169E-04
5.282E-02	1.000002	6.258E-04
6.659E-02	1.000002	1.254E-03

AMMONIUM NITRATE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.677E-04	0.865263	2.083E-09
8.876E-04	0.874207	2.272E-09
9.102E-04	0.883212	2.499E-09
9.363E-04	0.892519	2.777E-09
9.669E-04	0.902133	3.124E-09
1.004E-03	0.912379	3.570E-09
1.043E-03	0.922922	4.165E-09
1.095E-03	0.934091	4.998E-09
1.181E-03	0.945701	6.248E-09
1.214E-03	0.950446	6.942E-09
1.263E-03	0.955394	7.809E-09
1.316E-03	0.960382	8.925E-09
1.380E-03	0.965534	1.041E-08
1.461E-03	0.970853	1.249E-08
1.511E-03	0.973545	1.388E-08
1.568E-03	0.976314	1.562E-08
1.636E-03	0.979101	1.785E-08
1.719E-03	0.981917	2.082E-08
1.824E-03	0.984773	2.499E-08
1.961E-03	0.987679	3.124E-08
2.154E-03	0.990625	4.165E-08
2.460E-03	0.993650	6.247E-08
3.093E-03	0.996757	1.249E-07
3.203E-03	0.997055	1.388E-07
3.331E-03	0.997358	1.562E-07
3.482E-03	0.997668	1.785E-07
3.665E-03	0.997985	2.082E-07
3.894E-03	0.998308	2.499E-07
4.193E-03	0.998636	3.124E-07
4.614E-03	0.998972	4.165E-07
5.231E-03	0.999313	6.247E-07
6.652E-03	0.999659	1.249E-06
6.890E-03	0.999694	1.388E-06
7.166E-03	0.999729	1.562E-06
7.492E-03	0.999764	1.785E-06

7.887E-03	0.999799	2.082E-06
8.381E-03	0.999833	2.499E-06
9.028E-03	0.999868	3.123E-06
9.936E-03	0.999903	4.165E-06
1.137E-02	0.999937	6.247E-06
1.433E-02	0.999971	1.249E-05
1.484E-02	0.999975	1.388E-05
1.544E-02	0.999978	1.562E-05
1.614E-02	0.999981	1.785E-05
1.699E-02	0.999985	2.082E-05
1.805E-02	0.999988	2.499E-05
1.945E-02	0.999991	3.123E-05
2.141E-02	0.999994	4.165E-05
2.450E-02	0.999997	6.247E-05
3.087E-02	1.000000	1.249E-04
3.198E-02	1.000000	1.388E-04
3.326E-02	1.000000	1.562E-04
3.477E-02	1.000001	1.785E-04
3.660E-02	1.000001	2.082E-04
3.890E-02	1.000001	2.499E-04
4.190E-02	1.000001	3.124E-04
4.612E-02	1.000001	4.165E-04
5.279E-02	1.000001	6.248E-04
6.652E-02	1.000001	1.250E-03
6.890E-02	1.000001	1.389E-03
7.156E-02	1.000001	1.562E-03
7.492E-02	1.000001	1.786E-03
7.887E-02	1.000001	2.083E-03
8.382E-02	1.000001	2.500E-03
9.029E-02	1.000001	3.126E-03
9.939E-02	1.000001	4.169E-03
1.138E-01	1.000001	6.258E-03
1.435E-01	1.000001	1.254E-02

AMMONIUM NITRATE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.369E-03	0.865209	2.083E-08
1.912E-03	0.874154	2.272E-08
1.961E-03	0.883159	2.499E-08
2.017E-03	0.892466	2.777E-08
2.083E-03	0.902131	3.124E-08
2.162E-03	0.912326	3.570E-08
2.259E-03	0.922873	4.165E-08
2.381E-03	0.934044	4.998E-08
2.544E-03	0.945656	6.247E-08
2.625E-03	0.950402	6.942E-08
2.721E-03	0.955352	7.809E-08
2.835E-03	0.960341	8.925E-08
2.973E-03	0.965434	1.041E-07
3.148E-03	0.970816	1.249E-07
3.255E-03	0.973508	1.388E-07
3.379E-03	0.976278	1.562E-07
3.525E-03	0.979067	1.785E-07
3.704E-03	0.981955	2.082E-07
3.927E-03	0.984742	2.499E-07
4.224E-03	0.987650	3.124E-07
4.640E-03	0.990599	4.165E-07
5.300E-03	0.993627	6.247E-07
6.665E-03	0.996739	1.249E-06
6.901E-03	0.997037	1.388E-06
7.170E-03	0.997341	1.562E-06
7.501E-03	0.997652	1.785E-06
7.899E-03	0.997969	2.082E-06
8.387E-03	0.998293	2.499E-06
9.034E-03	0.998623	3.123E-06
9.941E-03	0.998959	4.165E-06
1.138E-02	0.999302	6.247E-06
1.433E-02	0.999650	1.249E-05
1.434E-02	0.999686	1.388E-05
1.544E-02	0.999721	1.562E-05
1.914E-02	0.999756	1.785E-05

1.599E-02	0.999791	2.082E-05
1.706E-02	0.999827	2.499E-05
1.945E-02	0.999862	3.123E-05
2.141E-02	0.999897	4.165E-05
2.450E-02	0.999932	6.247E-05
3.087E-02	0.999967	1.249E-04
3.199E-02	0.999971	1.388E-04
3.326E-02	0.999974	1.562E-04
3.477E-02	0.999978	1.785E-04
3.660E-02	0.999981	2.082E-04
3.890E-02	0.999985	2.499E-04
4.190E-02	0.999988	3.123E-04
4.612E-02	0.999991	4.164E-04
5.279E-02	0.999995	6.247E-04
6.651E-02	0.999998	1.249E-03
6.889E-02	0.999998	1.388E-03
7.165E-02	0.999999	1.562E-03
7.491E-02	0.999999	1.785E-03
7.886E-02	0.999999	2.082E-03
8.380E-02	0.999999	2.499E-03
9.027E-02	1.000000	3.124E-03
9.936E-02	1.000000	4.165E-03
1.137E-01	1.000000	6.248E-03
1.433E-01	1.000000	1.250E-02
1.484E-01	1.000000	1.389E-02
1.544E-01	1.000000	1.562E-02
1.614E-01	1.000000	1.736E-02
1.699E-01	1.000000	2.083E-02
1.806E-01	1.000000	2.500E-02
1.945E-01	1.000000	3.126E-02
2.141E-01	1.000000	4.169E-02
2.452E-01	1.000000	6.253E-02
3.091E-01	1.000000	1.254E-01

AMMONIUM NITRATE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.027E-03	0.865184	2.083E-07
4.120E-03	0.874129	2.272E-07
4.225E-03	0.883135	2.499E-07
4.340E-03	0.892442	2.777E-07
4.468E-03	0.902108	3.124E-07
4.606E-03	0.912305	3.570E-07
4.766E-03	0.922850	4.165E-07
5.130E-03	0.934022	4.998E-07
.480E-03	0.945635	6.247E-07
5.656E-03	0.950382	6.941E-07
5.862E-03	0.955332	7.809E-07
6.107E-03	0.960322	8.924E-07
6.406E-03	0.965476	1.041E-06
6.782E-03	0.970798	1.249E-06
7.012E-03	0.973491	1.388E-06
7.279E-03	0.976262	1.562E-06
7.595E-03	0.979051	1.785E-06
7.980E-03	0.981869	2.082E-06
8.464E-03	0.984723	2.499E-06
9.100E-03	0.987637	3.123E-06
9.996E-03	0.990587	4.165E-06
1.142E-02	0.993617	6.247E-06
1.436E-02	0.996730	1.249E-05
1.487E-02	0.997029	1.388E-05
1.546E-02	0.997333	1.562E-05
1.616E-02	0.997644	1.785E-05
1.701E-02	0.997962	2.082E-05
1.807E-02	0.998286	2.499E-05
1.940E-02	0.998617	3.123E-05
2.142E-02	0.998953	4.165E-05
2.451E-02	0.999297	6.247E-05
3.088E-02	0.999646	1.249E-04
3.198E-02	0.999682	1.388E-04
3.326E-02	0.999717	1.562E-04
3.477E-02	0.999752	1.785E-04

3.661E-02	0.999788	2.082E-04
3.890E-02	0.999823	2.499E-04
4.190E-02	0.999859	3.123E-04
4.612E-02	0.999895	4.164E-04
5.279E-02	0.999930	6.247E-04
6.651E-02	0.999966	1.249E-03
6.889E-02	0.999969	1.388E-03
7.165E-02	0.999973	1.562E-03
7.491E-02	0.999976	1.785E-03
7.886E-02	0.999980	2.082E-03
8.380E-02	0.999983	2.499E-03
9.027E-02	0.999987	3.123E-03
9.935E-02	0.999990	4.164E-03
1.137E-01	0.999994	6.247E-03
1.433E-01	0.999997	1.249E-02
1.484E-01	0.999997	1.388E-02
1.544E-01	0.999998	1.562E-02
1.614E-01	0.999998	1.785E-02
1.699E-01	0.999998	2.082E-02
1.805E-01	0.999999	2.499E-02
1.945E-01	0.999999	3.123E-02
2.141E-01	0.999999	4.165E-02
2.450E-01	1.000000	6.247E-02
3.087E-01	1.000000	1.250E-01
3.198E-01	1.000000	1.389E-01
3.326E-01	1.000000	1.562E-01
3.477E-01	1.000000	1.786E-01
3.661E-01	1.000000	2.083E-01
3.890E-01	1.000000	2.500E-01
4.191E-01	1.000000	3.126E-01
4.613E-01	1.000000	4.169E-01
5.232E-01	1.000000	6.257E-01
6.059E-01	1.000000	1.254E 00

NOT REPRODUCIBLE

AMMONIUM NITRATE
(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.677E-03	0.865172	2.082E-06
8.875E-03	0.874117	2.272E-06
9.102E-03	0.883123	2.499E-06
9.368E-03	0.892431	2.777E-06
9.669E-03	0.902096	3.124E-06
1.003E-02	0.912294	3.570E-06
1.048E-02	0.922840	4.165E-06
1.105E-02	0.934011	4.998E-06
1.181E-02	0.945625	6.247E-06
1.219E-02	0.950373	6.941E-06
1.264E-02	0.955323	7.809E-06
1.318E-02	0.960313	8.924E-06
1.380E-02	0.965468	1.041E-05
1.451E-02	0.970790	1.249E-05
1.511E-02	0.973483	1.388E-05
1.558E-02	0.976254	1.562E-05
1.613E-02	0.979044	1.785E-05
1.719E-02	0.981862	2.082E-05
1.824E-02	0.984721	2.499E-05
1.950E-02	0.987631	3.123E-05
2.154E-02	0.990581	4.165E-05
2.450E-02	0.993612	6.247E-05
3.093E-02	0.996727	1.249E-04
3.203E-02	0.997025	1.388E-04
3.331E-02	0.997330	1.562E-04
3.482E-02	0.997641	1.785E-04
3.659E-02	0.997959	2.082E-04
3.873E-02	0.998293	2.499E-04
4.139E-02	0.998614	3.123E-04
4.514E-02	0.998951	4.164E-04
5.231E-02	0.999295	6.247E-04
6.552E-02	0.999649	1.249E-03
6.890E-02	0.999680	1.388E-03
7.290E-02	0.999715	1.562E-03
7.492E-02	0.999751	1.735E-03

NOT REPRODUCIBLE

7.686E-02	0.999786	2.082E-03
8.380E-02	0.999822	2.499E-03
9.027E-02	0.999858	3.123E-03
9.936E-02	0.999893	4.164E-03
1.137E-01	0.999929	6.247E-03
1.433E-01	0.999965	1.249E-02
1.434E-01	0.999965	1.388E-02
1.544E-01	0.999972	1.562E-02
1.914E-01	0.999979	1.785E-02
1.999E-01	0.999979	2.082E-02
1.805E-01	0.999983	2.499E-02
1.945E-01	0.999986	3.123E-02
2.140E-01	0.999990	4.164E-02
2.493E-01	0.999993	6.246E-02
3.087E-01	0.999997	1.249E-01
3.197E-01	0.999997	1.388E-01
3.329E-01	0.999997	1.562E-01
3.477E-01	0.999998	1.785E-01
3.660E-01	0.999998	2.082E-01
3.899E-01	0.999999	2.499E-01
4.197E-01	0.999999	3.123E-01
4.612E-01	0.999999	4.165E-01
5.277E-01	0.999999	6.247E-01
6.993E-01	1.000000	1.253E 00
9.388E-01	1.000000	1.388E 00
7.147E-01	1.000000	1.562E 00
7.449E-01	1.000000	1.786E 00
7.887E-01	1.000000	2.083E 00
8.381E-01	1.000000	2.500E 00
9.322E-01	1.000000	3.126E 00
9.769E-01	1.000000	4.169E 00
1.153E 00	1.000000	6.257E 00
1.439E 00	1.000000	1.254E 01

AMMONIUM NITRATE

PERCENTAGE	MOLALITY	DENSITY
0.50	12.492	1.2258
0.45	10.721	1.2003
0.40	8.923	1.1754
0.35	6.727	1.1512
0.30	5.354	1.1277
0.24	3.945	1.1005
0.22	3.523	1.0916
0.20	3.123	1.0828
0.18	2.742	1.0740
0.16	2.378	1.0653
0.14	2.034	1.0567
0.12	1.708	1.0482
0.10	1.398	1.0397
0.08	1.104	1.0313
0.06	0.797	1.0230
0.04	0.521	1.0147
0.02	0.255	1.0064
0.01	0.126	1.0023
0.00	0.000	1.0000

(8) SODIUM NITRATE

SODIUM NITRATE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
.. 85.0C	2.257	2.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.3028E-05	2.1951E-06
1.00E-15	6.0470E-05	4.7293E-06
1.00E-14	2.8068E-04	1.0189E-05
1.00E-13	1.3028E-03	2.1951E-05
1.00E-12	6.0470E-03	4.7293E-05
1.00E-11	2.8068E-02	1.0189E-04
1.00E-10	1.3028E-01	2.1951E-04
1.00E-09	6.0470E-01	4.7293E-04
1.00E-08	2.8068E 00	1.0189E-03
1.00E-07	1.3028E 01	2.1951E-03
1.00E-06	6.0470E 01	4.7293E-03

SODIUM NITRATE
(CAE-CAE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
6.0000	0.84337	1.71819
5.5000	0.85560	1.70337
5.0000	0.86766	1.69335
4.5000	0.87949	1.69020
4.0000	0.89149	1.68915
3.5000	0.90358	1.69234
3.0000	0.91617	1.69303
2.5000	0.92905	1.69563
2.0000	0.94222	1.70215
1.8000	0.94759	1.70549
1.6000	0.95300	1.71085
1.4000	0.95856	1.71401
1.2000	0.96413	1.72125
1.0000	0.96980	1.72836
0.9000	0.97269	1.73187
0.8000	0.97557	1.73739
0.7000	0.97849	1.74288
0.6000	0.98143	1.75035
0.5000	0.98440	1.75980
0.4000	0.98738	1.77323
0.3000	0.99043	1.78859
0.2000	0.99352	1.80987
0.1000	0.99669	1.84506
0.0900	0.99699	1.86060
0.0800	0.99730	1.87613
0.0700	0.99762	1.89165
0.0600	0.99794	1.90716
0.0500	0.99827	1.92266
0.0400	0.99861	1.93815
0.0300	0.99895	1.95363
0.0200	0.99929	1.96909
0.0100	0.99964	1.98454
0.0090	0.99968	1.98606
0.0080	0.99971	1.98762
0.0070	0.99975	1.98918

0.0060	0.99978	1.99072
0.0050	0.99982	1.99225
0.0040	0.99986	1.99375
0.0030	0.99989	1.99534
0.0020	0.99993	1.99671
0.0019	0.99993	1.99687
0.0018	0.99994	1.99704
0.0017	0.99994	1.99724
0.0016	0.99994	1.99746
0.0015	0.99995	1.99744
0.0014	0.99995	1.99771
0.0013	0.99995	1.99770
0.0012	0.99996	1.99804
0.0011	0.99996	1.99806
0.0010	0.99996	1.99809
0.0009	0.99997	1.99859
0.0008	0.99997	1.99870
0.0007	0.99997	1.99884
0.0006	0.99998	1.99903
0.0005	0.99998	1.99848
0.0004	0.99999	1.99868
0.0003	0.99999	1.99902
0.0002	0.99999	1.99972
0.0001	1.00000	2.00000

SODIUM NITRATE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.828E-06	0.863972	1.962E-16
3.925E-06	0.876193	2.140E-16
4.035E-06	0.888191	2.354E-16
4.161E-06	0.899894	2.616E-16
4.308E-06	0.911685	2.943E-16
4.483E-06	0.923479	3.363E-16
4.695E-06	0.935654	3.923E-16
4.963E-06	0.947963	4.708E-16
5.316E-06	0.960334	5.885E-16
5.493E-06	0.965314	6.539E-16
5.699E-06	0.970263	7.356E-16
5.944E-06	0.975288	8.407E-16
6.242E-06	0.980223	9.808E-16
6.616E-06	0.985155	1.177E-15
6.844E-06	0.987608	1.308E-15
7.109E-06	0.990015	1.471E-15
7.422E-06	0.992401	1.681E-15
7.803E-06	0.994732	1.962E-15
8.280E-06	0.996996	2.354E-15.
8.908E-06	0.999159	2.942E-15
9.790E-06	1.001197	3.923E-15
1.119E-05	1.002993	5.884E-15
1.408E-05	1.004254	1.177E-14
1.458E-05	1.004302	1.308E-14
1.510E-05	1.004336	1.471E-14
1.565E-05	1.004350	1.681E-14
1.668E-05	1.004340	1.961E-14
1.773E-05	1.004294	2.354E-14
1.909E-05	1.004200	2.942E-14
2.101E-05	1.004031	3.923E-14
2.405E-05	1.003736	5.884E-14
3.029E-05	1.003171	1.177E-13
3.138E-05	1.003055	1.308E-13
3.253E-05	1.002990	1.471E-13
3.412E-05	1.002883	1.681E-13

3.592E-05	1.002761	1.961E-13
3.817E-05	1.002621	2.354E-13
4.111E-05	1.002456	2.942E-13
4.525E-05	1.002254	3.923E-13
5.180E-05	1.001991	5.884E-13
6.526E-05	1.001602	1.177E-12
6.759E-05	1.001549	1.308E-12
7.040E-05	1.001491	1.471E-12
7.350E-05	1.001429	1.681E-12
7.737E-05	1.001359	1.961E-12
8.222E-05	1.001282	2.354E-12
8.857E-05	1.001192	2.942E-12
9.748E-05	1.001085	3.923E-12
1.116E-04	1.000950	5.884E-12
1.406E-04	1.000756	1.177E-11
1.456E-04	1.000730	1.308E-11
1.514E-04	1.000702	1.471E-11
1.583E-04	1.000672	1.681E-11
1.667E-04	1.000639	1.961E-11
1.771E-04	1.000601	2.354E-11
1.908E-04	1.000558	2.942E-11
2.100E-04	1.000507	3.923E-11
2.404E-04	1.000444	5.885E-11
3.029E-04	1.000352	1.177E-10
3.138E-04	1.000340	1.308E-10
3.253E-04	1.000327	1.472E-10
3.412E-04	1.000313	1.682E-10
3.592E-04	1.000297	1.962E-10
3.817E-04	1.000280	2.355E-10
4.112E-04	1.000260	2.945E-10
4.526E-04	1.000236	3.927E-10
5.182E-04	1.000206	5.894E-10
6.533E-04	1.000163	1.181E-09

SODIUM NITRATE
(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.248E-06	0.852872	1.962E-15
8.457E-06	0.865097	2.140E-15
8.694E-06	0.877130	2.354E-15
8.965E-06	0.888905	2.616E-15
9.281E-06	0.900807	2.943E-15
9.657E-06	0.912764	3.363E-15
1.012E-05	0.925163	3.923E-15
1.069E-05	0.937782	4.708E-15
1.145E-05	0.950583	5.885E-15
1.183E-05	0.955779	6.538E-15
1.228E-05	0.960977	7.356E-15
1.281E-05	0.966290	8.407E-15
1.345E-05	0.971564	9.808E-15
1.425E-05	0.976900	1.177E-14
1.474E-05	0.979585	1.308E-14
1.531E-05	0.982250	1.471E-14
1.599E-05	0.984925	1.681E-14
1.681E-05	0.987583	1.961E-14
1.784E-05	0.990225	2.354E-14
1.910E-05	0.992832	2.942E-14
2.109E-05	0.995411	3.923E-14
2.411E-05	0.997907	5.884E-14
3.033E-05	1.000172	1.177E-13
3.141E-05	1.000379	1.309E-13
3.257E-05	1.000561	1.471E-13
3.415E-05	1.000739	1.681E-13
3.594E-05	1.000907	1.961E-13
3.819E-05	1.001062	2.354E-13
4.113E-05	1.001198	2.942E-13
4.527E-05	1.001303	3.923E-13
5.181E-05	1.001352	5.884E-13
6.527E-05	1.001279	1.177E-12
6.760E-05	1.001258	1.308E-12
7.030E-05	1.001233	1.471E-12
7.350E-05	1.001202	1.681E-12

NOT REPRODUCIBLE

7.738E-05	1.001165	1.961E-12
8.222E-05	1.001120	2.354E-12
8.857E-05	1.001062	2.942E-12
9.749E-05	1.000988	3.923E-12
1.119E-04	1.000885	5.884E-12
1.405E-04	1.000724	1.177E-11
1.456E-04	1.000701	1.308E-11
1.514E-04	1.000676	1.471E-11
1.583E-04	1.000649	1.681E-11
1.667E-04	1.000619	1.961E-11
1.771E-04	1.000585	2.354E-11
1.906E-04	1.000545	2.942E-11
2.100E-04	1.000498	3.923E-11
2.403E-04	1.000437	5.884E-11
3.029E-04	1.000349	1.177E-10
3.137E-04	1.000337	1.308E-10
3.263E-04	1.000324	1.471E-10
3.411E-04	1.000311	1.681E-10
3.591E-04	1.000295	1.961E-10
3.816E-04	1.000278	2.354E-10
4.111E-04	1.000258	2.942E-10
4.525E-04	1.000235	3.923E-10
5.180E-04	1.000205	5.885E-10
6.526E-04	1.000163	1.177E-09
6.760E-04	1.000158	1.308E-09
7.030E-04	1.000152	1.472E-09
7.351E-04	1.000145	1.682E-09
7.738E-04	1.000138	1.962E-09
8.224E-04	1.000130	2.355E-09
8.859E-04	1.000120	2.944E-09
9.752E-04	1.000109	3.927E-09
1.117E-03	1.000096	5.894E-09
1.408E-03	1.000076	1.181E-08

SODIUM NITRATE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.777E-05	0.847768	1.962E-14
1.822E-05	0.859994	2.140E-14
1.873E-05	0.872042	2.354E-14
1.931E-05	0.883849	2.616E-14
2.000E-05	0.895802	2.942E-14
2.091E-05	0.907833	3.363E-14
2.179E-05	0.920334	3.923E-14
2.303E-05	0.933094	4.708E-14
2.467E-05	0.946090	5.885E-14
2.550E-05	0.951385	6.538E-14
2.645E-05	0.956697	7.356E-14
2.759E-05	0.962142	8.406E-14
2.897E-05	0.967571	9.807E-14
3.071E-05	0.973091	1.177E-13
3.177E-05	0.975883	1.308E-13
3.299E-05	0.978666	1.471E-13
3.445E-05	0.981474	1.681E-13
3.622E-05	0.984282	1.961E-13
3.843E-05	0.987097	2.354E-13
4.134E-05	0.989909	2.942E-13
4.544E-05	0.992737	3.923E-13
5.194E-05	0.995554	5.884E-13
6.535E-05	0.998312	1.177E-12
6.768E-05	0.998563	1.308E-12
7.038E-05	0.998814	1.471E-12
7.357E-05	0.999066	1.681E-12
7.744E-05	0.999318	1.961E-12
8.228E-05	0.999566	2.354E-12
8.862E-05	0.999808	2.942E-12
9.752E-05	1.000039	3.923E-12
1.116E-04	1.000247	5.884E-12
1.406E-04	1.000402	1.177E-11
1.456E-04	1.000411	1.308E-11
1.515E-04	1.000419	1.471E-11
1.584E-04	1.000423	1.681E-11

1.567E-04	1.000425	1.961E-11
1.771E-04	1.000423	2.354E-11
1.908E-04	1.000416	2.942E-11
2.100E-04	1.000401	3.923E-11
2.404E-04	1.000372	5.884E-11
3.029E-04	1.000317	1.177E-10
3.137E-04	1.000308	1.308E-10
3.263E-04	1.000299	1.471E-10
3.411E-04	1.000288	1.681E-10
3.591E-04	1.000276	1.961E-10
3.816E-04	1.000262	2.354E-10
4.111E-04	1.000245	2.942E-10
4.525E-04	1.000225	3.923E-10
5.179E-04	1.000199	5.884E-10
6.526E-04	1.000160	1.177E-09
6.759E-04	1.000155	1.308E-09
7.029E-04	1.000149	1.471E-09
7.349E-04	1.000143	1.681E-09
7.737E-04	1.000136	1.961E-09
8.222E-04	1.000128	2.354E-09
8.857E-04	1.000119	2.942E-09
9.748E-04	1.000108	3.923E-09
1.116E-03	1.000095	5.885E-09
1.406E-03	1.000076	1.177E-08
1.459E-03	1.000073	1.308E-08
1.515E-03	1.000070	1.472E-08
1.584E-03	1.000067	1.682E-08
1.667E-03	1.000064	1.962E-08
1.772E-03	1.000060	2.355E-08
1.909E-03	1.000056	2.944E-08
2.101E-03	1.000051	3.927E-08
2.405E-03	1.000044	5.894E-08
3.052E-03	1.000035	1.181E-07

SODIUM NITRATE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.828E-05	0.845409	1.962E-13
3.925E-05	0.857636	2.140E-13
4.035E-05	0.869691	2.354E-13
4.161E-05	0.881513	2.615E-13
4.308E-05	0.893488	2.942E-13
4.482E-05	0.905553	3.363E-13
4.695E-05	0.918101	3.923E-13
4.963E-05	0.930926	4.708E-13
5.316E-05	0.944012	5.884E-13
5.493E-05	0.949352	6.538E-13
5.699E-05	0.954717	7.355E-13
5.944E-05	0.960222	8.406E-13
6.242E-05	0.965723	9.807E-13
6.610E-05	0.971328	1.177E-12
6.844E-05	0.974170	1.308E-12
7.108E-05	0.977007	1.471E-12
7.422E-05	0.979876	1.681E-12
7.803E-05	0.982754	1.961E-12
8.280E-05	0.985649	2.354E-12
8.907E-05	0.988555	2.942E-12
9.790E-05	0.991499	3.923E-12
1.119E-04	0.994465	5.884E-12
1.408E-04	0.997441	1.177E-11
1.458E-04	0.997721	1.308E-11
1.516E-04	0.998004	1.471E-11
1.585E-04	0.998291	1.681E-11
1.668E-04	0.998581	1.961E-11
1.773E-04	0.998872	2.354E-11
1.909E-04	0.999163	2.942E-11
2.101E-04	0.999453	3.923E-11
2.405E-04	0.999735	5.884E-11
3.029E-04	0.999995	1.177E-10
3.138E-04	1.000018	1.308E-10
3.263E-04	1.000041	1.471E-10
3.412E-04	1.000062	1.681E-10

3.571E-04	1.000082	1.961E-10
3.810E-04	1.000100	2.353E-10
4.111E-04	1.000116	2.942E-10
4.525E-04	1.000123	3.922E-10
5.179E-04	1.000134	5.884E-10
6.526E-04	1.000129	1.177E-09
6.759E-04	1.000126	1.307E-09
7.029E-04	1.000123	1.471E-09
7.34[illegible]E-04	1.000120	1.681E-09
7.757E-04	1.000116	1.961E-09
8.222E-04	1.000112	2.353E-09
8.850E-04	1.000106	2.942E-09
9.745E-04	1.000099	3.922E-09
1.116E-03	1.000088	5.884E-09
1.400E-03	1.000072	1.177E-08
1.450E-03	1.000070	1.307E-08
1.514E-03	1.000068	1.471E-08
1.583E-03	1.000065	1.681E-08
1.667E-03	1.000062	1.961E-08
1.771E-03	1.000058	2.354E-08
1.908E-03	1.000055	2.942E-08
2.100E-03	1.000050	3.923E-08
2.404E-03	1.000044	5.884E-08
3.029E-03	1.000035	1.177E-07
3.137E-03	1.000034	1.308E-07
3.268E-03	1.000032	1.472E-07
3.412E-03	1.000031	1.682E-07
3.592E-03	1.000030	1.962E-07
3.817E-03	1.000028	2.355E-07
4.112E-03	1.000026	2.944E-07
4.526E-03	1.000023	3.927E-07
5.182E-03	1.000021	5.894E-07
6.533E-03	1.000016	1.181E-06

SODIUM NITRATE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.248E-05	0.844317	1.962E-12
8.457E-05	0.856544	2.140E-12
8.693E-05	0.868602	2.354E-12
8.965E-05	0.880430	2.615E-12
9.281E-05	0.892416	2.942E-12
9.657E-05	0.904497	3.363E-12
1.012E-04	0.917067	3.923E-12
1.069E-04	0.929922	4.707E-12
1.145E-04	0.943049	5.884E-12
1.183E-04	0.948410	6.538E-12
1.224E-04	0.953799	7.355E-12
1.231E-04	0.959333	8.406E-12
1.345E-04	0.964867	9.807E-12
1.425E-04	0.970511	1.177E-11
1.474E-04	0.973375	1.308E-11
1.531E-04	0.976238	1.471E-11
1.599E-04	0.979136	1.681E-11
1.681E-04	0.982045	1.961E-11
1.784E-04	0.984977	2.354E-11
1.913E-04	0.987927	2.942E-11
2.109E-04	0.990924	3.923E-11
2.411E-04	0.993959	5.884E-11
3.034E-04	0.997037	1.177E-10
3.141E-04	0.997331	1.308E-10
3.267E-04	0.997629	1.471E-10
3.415E-04	0.997932	1.681E-10
3.594E-04	0.998239	1.961E-10
3.819E-04	0.998550	2.353E-10
4.113E-04	0.998864	2.942E-10
4.527E-04	0.999181	3.922E-10
5.131E-04	0.999497	5.884E-10
6.526E-04	0.999806	1.177E-09
6.760E-04	0.999836	1.307E-09
7.030E-04	0.999865	1.471E-09
7.350E-04	0.999894	1.681E-09

7.737E-04	0.999923	1.961E-09
8.222E-04	0.999950	2.353E-09
8.457E-04	0.999977	2.942E-09
9.748E-04	1.000002	3.922E-09
1.116E-03	1.000024	5.884E-09
1.406E-03	1.000040	1.177E-08
1.456E-03	1.000041	1.307E-08
1.514E-03	1.000042	1.471E-08
1.583E-03	1.000042	1.681E-08
1.667E-03	1.000042	1.961E-08
1.771E-03	1.000042	2.353E-08
1.903E-03	1.000042	2.942E-08
2.100E-03	1.000040	3.922E-08
2.404E-03	1.000037	5.884E-08
3.029E-03	1.000032	1.177E-07
3.137E-03	1.000031	1.307E-07
3.263E-03	1.000030	1.471E-07
3.411E-03	1.000029	1.681E-07
3.591E-03	1.000028	1.961E-07
3.816E-03	1.000026	2.353E-07
4.111E-03	1.000025	2.942E-07
4.525E-03	1.000023	3.923E-07
5.179E-03	1.000020	5.884E-07
6.526E-03	1.000016	1.177E-06
6.759E-03	1.000015	1.308E-06
7.030E-03	1.000015	1.471E-06
7.350E-03	1.000014	1.682E-06
7.738E-03	1.000014	1.962E-06
8.223E-03	1.000013	2.355E-06
8.859E-03	1.000012	2.944E-06
9.751E-03	1.000011	3.927E-06
1.116E-02	1.000009	5.894E-06
1.408E-02	1.000008	1.181E-05

SODIUM NITRATE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.777E-04	0.843810	1.962E-11
1.822E-04	0.856037	2.140E-11
1.873E-04	0.868C96	2.354E-11
1.931E-04	0.879928	2.615E-11
2.000E-04	0.891919	2.942E-11
2.081E-04	0.904007	3.362E-11
2.179E-04	0.916587	3.923E-11
2.303E-04	0.929456	4.707E-11
2.467E-04	0.942603	5.884E-11
2.550E-04	0.947973	6.538E-11
2.645E-04	0.953373	7.355E-11
2.759E-04	0.958920	8.406E-11
2.897E-04	0.964469	9.807E-11
3.071E-04	0.970132	1.177E-10
3.177E-04	0.973007	1.308E-10
3.299E-04	0.975882	1.471E-10
3.445E-04	0.978792	1.681E-10
3.622E-04	0.981717	1.961E-10
3.843E-04	0.984666	2.354E-10
4.134E-04	0.987636	2.942E-10
4.544E-04	0.990657	3.922E-10
5.194E-04	0.993724	5.884E-10
6.535E-04	0.996850	1.177E-09
6.768E-04	0.997149	1.307E-09
7.038E-04	0.997454	1.471E-09
7.357E-04	0.997765	1.681E-09
7.744E-04	0.998080	1.961E-09
8.228E-04	C.998401	2.353E-09
8.862E-04	0.998726	2.942E-09
9.752E-04	0.999055	3.922E-09
1.116E-03	0.999397	5.884E-09
1.406E-03	0.999719	1.177E-08
1.456E-03	C.999751	1.307E-08
1.515E-03	0.999784	1.471E-08
1.584E-03	C.999817	1.681E-08

1.667E-03	0.999849	1.961E-08
1.771E-03	0.999881	2.353E-08
1.908E-03	0.999912	2.942E-08
2.100E-03	0.999943	3.922E-08
2.404E-03	0.999972	5.883E-08
3.029E-03	0.999999	1.177E-07
3.137E-03	1.000002	1.307E-07
3.293E-03	1.000004	1.471E-07
3.411E-03	1.000006	1.681E-07
3.591E-03	1.000008	1.961E-07
3.815E-03	1.000010	2.353E-07
4.111E-03	1.000012	2.942E-07
4.524E-03	1.000013	3.922E-07
5.179E-03	1.000013	5.883E-07
6.525E-03	1.000013	1.177E-06
6.759E-03	1.000013	1.307E-06
7.029E-03	1.000012	1.471E-06
7.349E-03	1.000012	1.681E-06
7.737E-03	1.000012	1.961E-06
8.222E-03	1.000011	2.353E-06
8.856E-03	1.000011	2.942E-06
9.748E-03	1.000010	3.923E-06
1.116E-02	1.000009	5.884E-06
1.406E-02	1.000007	1.177E-05
1.456E-02	1.000007	1.308E-05
1.515E-02	1.000007	1.471E-05
1.584E-02	1.000006	1.682E-05
1.667E-02	1.000006	1.962E-05
1.772E-02	1.000006	2.355E-05
1.909E-02	1.000005	2.944E-05
2.101E-02	1.000005	3.927E-05
2.405E-02	1.000004	5.894E-05
3.032E-02	1.000003	1.181E-04

SODIUM NITRATE
(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.828E-04	0.843575	1.961E-10
3.925E-04	0.855802	2.140E-10
4.035E-04	0.867862	2.354E-10
4.161E-04	0.879695	2.615E-10
4.308E-04	0.891689	2.942E-10
4.482E-04	0.903780	3.362E-10
4.695E-04	0.916364	3.923E-10
4.963E-04	0.929239	4.707E-10
5.316E-04	0.942395	5.884E-10
5.493E-04	0.947771	6.538E-10
5.699E-04	0.953176	7.355E-10
5.944E-04	0.958729	8.405E-10
6.242E-04	0.964285	9.806E-10
6.616E-04	0.969956	1.177E-09
6.844E-04	0.972836	1.307E-09
7.108E-04	0.975716	1.471E-09
7.422E-04	0.978632	1.681E-09
7.803E-04	0.981564	1.961E-09
8.280E-04	0.984521	2.353E-09
8.907E-04	0.987501	2.942E-09
9.790E-04	0.990533	3.922E-09
1.119E-03	0.993616	5.884E-09
1.408E-03	0.996763	1.177E-08
1.458E-03	0.997065	1.307E-08
1.516E-03	0.997374	1.471E-08
1.585E-03	0.997687	1.681E-08
1.668E-03	0.998007	1.961E-08
1.773E-03	0.998331	2.353E-08
1.909E-03	0.998661	2.942E-08
2.101E-03	0.998996	3.922E-08
2.405E-03	0.999335	5.883E-08
3.029E-03	0.999678	1.177E-07
3.137E-03	0.999712	1.307E-07
3.253E-03	0.999746	1.471E-07
3.412E-03	0.999780	1.681E-07

3.591E-03	0.999815	1.961E-07
3.816E-03	0.999849	2.353E-07
4.111E-03	0.999882	2.942E-07
4.525E-03	0.999916	3.922E-07
5.179E-03	0.999940	5.883E-07
6.525E-03	0.999980	1.177E-06
6.759E-03	0.999983	1.307E-06
7.029E-03	0.999986	1.471E-06
7.349E-03	0.999989	1.681E-06
7.737E-03	0.999992	1.961E-06
8.221E-03	0.999995	2.353E-06
8.856E-03	0.999998	2.942E-06
9.748E-03	1.000000	3.922E-06
1.116E-02	1.000002	5.883E-06
1.406E-02	1.000004	1.177E-05
1.456E-02	1.000004	1.307E-05
1.514E-02	1.000004	1.471E-05
1.583E-02	1.000004	1.681E-05
1.667E-02	1.000004	1.961E-05
1.771E-02	1.000004	2.353E-05
1.908E-02	1.000004	2.942E-05
2.100E-02	1.000004	3.922E-05
2.404E-02	1.000004	5.884E-05
3.029E-02	1.000003	1.177E-04
3.137E-02	1.000003	1.308E-04
3.263E-02	1.000003	1.471E-04
3.412E-02	1.000003	1.682E-04
3.592E-02	1.000003	1.962E-04
3.817E-02	1.000003	2.355E-04
4.112E-02	1.000002	2.944E-04
4.526E-02	1.000002	3.927E-04
5.182E-02	1.000002	5.893E-04
6.533E-02	1.000002	1.181E-03

SODIUM NITRATE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.247E-04	0.843466	1.961E-09
8.456E-04	0.855693	2.140E-09
8.693E-04	0.867753	2.354E-09
8.965E-04	0.879587	2.615E-09
9.281E-04	0.891582	2.942E-09
9.657E-04	0.903675	3.362E-09
1.011E-03	0.916261	3.923E-09
1.069E-03	0.929139	4.707E-09
1.145E-03	0.942299	5.884E-09
1.183E-03	0.947676	6.537E-09
1.228E-03	0.953084	7.355E-09
1.281E-03	0.958640	8.405E-09
1.345E-03	0.964199	9.806E-09
1.425E-03	0.969875	1.177E-08
1.474E-03	0.972756	1.307E-08
1.531E-03	0.975639	1.471E-08
1.599E-03	0.978558	1.681E-08
1.681E-03	0.981493	1.961E-08
1.784E-03	0.984454	2.353E-08
1.919E-03	0.987438	2.942E-08
2.109E-03	0.990476	3.922E-08
2.411E-03	0.993565	5.883E-08
3.033E-03	0.996722	1.177E-07
3.141E-03	0.997026	1.307E-07
3.266E-03	0.997336	1.471E-07
3.415E-03	0.997651	1.681E-07
3.594E-03	0.997972	1.961E-07
3.819E-03	0.998299	2.353E-07
4.113E-03	0.998631	2.942E-07
4.526E-03	0.998969	3.922E-07
5.191E-03	0.999312	5.883E-07
6.526E-03	0.999659	1.177E-06
6.759E-03	0.999694	1.307E-06
7.030E-03	0.999729	1.471E-06
7.350E-03	0.999764	1.681E-06

7.737E-03	0.999799	1.961E-06
8.222E-03	0.999834	2.353E-06
8.857E-03	0.999868	2.942E-06
9.748E-03	0.999903	3.922E-06
1.116E-02	0.999938	5.883E-06
1.406E-02	0.999972	1.177E-05
1.456E-02	0.999975	1.307E-05
1.514E-02	0.999978	1.471E-05
1.583E-02	0.999982	1.681E-05
1.667E-02	0.999985	1.961E-05
1.771E-02	0.999988	2.353E-05
1.908E-02	0.999991	2.942E-05
2.100E-02	0.999994	3.922E-05
2.404E-02	0.999997	5.883E-05
3.029E-02	1.000000	1.177E-04
3.137E-02	1.000000	1.307E-04
3.263E-02	1.000000	1.471E-04
3.411E-02	1.000001	1.681E-04
3.591E-02	1.000001	1.961E-04
3.816E-02	1.000001	2.353E-04
4.111E-02	1.000001	2.942E-04
4.525E-02	1.000001	3.922E-04
5.179E-02	1.000001	5.884E-04
6.526E-02	1.000001	1.177E-03
6.759E-02	1.000001	1.308E-03
7.030E-02	1.000001	1.471E-03
7.350E-02	1.000001	1.682E-03
7.738E-02	1.000001	1.962E-03
8.223E-02	1.000001	2.355E-03
8.859E-02	1.000001	2.944E-03
9.751E-02	1.000001	3.927E-03
1.116E-01	1.000001	5.893E-03
1.407E-01	1.000001	1.181E-02

SODIUM NITRATE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.777E-03	0.843415	1.961E-08
1.822E-03	0.855642	2.140E-08
1.873E-03	0.867703	2.354E-08
1.931E-03	0.879537	2.615E-08
2.000E-03	0.891532	2.942E-08
2.081E-03	0.903626	3.362E-08
2.179E-03	0.916213	3.922E-08
2.303E-03	0.929093	4.707E-08
2.467E-03	0.942255	5.884E-08
2.550E-03	0.947633	6.537E-08
2.645E-03	0.953042	7.354E-08
2.759E-03	0.958598	8.405E-08
2.897E-03	0.964160	9.806E-08
3.071E-03	0.969837	1.177E-07
3.176E-03	0.972720	1.307E-07
3.299E-03	0.975604	1.471E-07
3.445E-03	0.978524	1.681E-07
3.622E-03	0.981460	1.961E-07
3.843E-03	0.984423	2.353E-07
4.134E-03	0.987409	2.942E-07
4.544E-03	0.990449	3.922E-07
5.194E-03	0.993542	5.883E-07
6.535E-03	0.996703	1.177E-06
6.767E-03	0.997008	1.307E-06
7.037E-03	0.997319	1.471E-06
7.357E-03	0.997635	1.681E-06
7.743E-03	0.997957	1.961E-06
8.227E-03	0.998284	2.353E-06
8.861E-03	0.998617	2.942E-06
9.752E-03	0.998956	3.922E-06
1.116E-02	0.999301	5.883E-06
1.406E-02	0.999650	1.177E-05
1.456E-02	0.999685	1.307E-05
1.515E-02	0.999721	1.471E-05
1.583E-02	0.999756	1.681E-05

1.667E-02	0.999791	1.961E-05
1.771E-02	0.999827	2.353E-05
1.908E-02	0.999862	2.942E-05
2.100E-02	0.999897	3.922E-05
2.404E-02	0.999932	5.883E-05
3.029E-02	0.999968	1.177E-04
3.137E-02	0.999971	1.307E-04
3.263E-02	0.999974	1.471E-04
3.411E-02	0.999978	1.681E-04
3.591E-02	0.999981	1.961E-04
3.816E-02	0.999985	2.353E-04
4.111E-02	0.999988	2.941E-04
4.524E-02	0.999992	3.922E-04
5.179E-02	0.999995	5.883E-04
6.525E-02	0.999998	1.177E-03
6.759E-02	0.999998	1.307E-03
7.029E-02	0.999999	1.471E-03
7.349E-02	0.999999	1.681E-03
7.737E-02	0.999999	1.961E-03
8.221E-02	0.999999	2.353E-03
8.856E-02	1.000000	2.942E-03
9.748E-02	1.000000	3.922E-03
1.116E-01	1.000000	5.884E-03
1.406E-01	1.000000	1.177E-02
1.456E-01	1.000000	1.308E-02
1.515E-01	1.000000	1.471E-02
1.584E-01	1.000000	1.682E-02
1.667E-01	1.000000	1.962E-02
1.772E-01	1.000000	2.355E-02
1.909E-01	1.000000	2.944E-02
2.101E-01	1.000000	3.926E-02
2.405E-01	1.000000	5.893E-02
3.032E-01	1.000000	1.181E-01

SODIUM NITRATE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.823E-03	0.843392	1.961E-07
3.925E-03	0.855619	2.140E-07
4.035E-03	0.867679	2.353E-07
4.161E-03	0.879514	2.615E-07
4.308E-03	0.891509	2.942E-07
4.432E-03	0.903603	3.362E-07
4.695E-03	0.916191	3.922E-07
4.962E-03	0.929071	4.707E-07
5.316E-03	0.942234	5.883E-07
5.493E-03	0.947612	6.537E-07
5.699E-03	0.953022	7.354E-07
5.944E-03	0.958579	8.405E-07
6.242E-03	0.964141	9.806E-07
6.616E-03	0.969819	1.177E-06
6.843E-03	0.972702	1.307E-06
7.108E-03	0.975587	1.471E-06
7.422E-03	0.978508	1.681E-06
7.802E-03	0.981445	1.961E-06
8.280E-03	0.984409	2.353E-06
8.907E-03	0.987395	2.942E-06
9.790E-03	0.990437	3.922E-06
1.119E-02	0.993531	5.883E-06
1.408E-02	0.996695	1.177E-05
1.458E-02	0.997000	1.307E-05
1.516E-02	0.997310	1.471E-05
1.585E-02	0.997627	1.681E-05
1.668E-02	0.997949	1.961E-05
1.773E-02	0.998277	2.353E-05
1.909E-02	0.998611	2.942E-05
2.101E-02	0.998950	3.922E-05
2.405E-02	0.999295	5.883E-05
3.029E-02	0.999646	1.177E-04
3.137E-02	0.999681	1.307E-04
3.263E-02	0.999717	1.471E-04
3.411E-02	0.999752	1.681E-04

3.591E-02	C.999788	1.961E-04
3.816E-02	0.999823	2.353E-04
4.111E-02	C.999859	2.941E-04
4.525E-02	0.999895	3.922E-04
5.179E-02	0.999930	5.883E-04
6.525E-02	C.999966	1.177E-03
6.759E-02	C.999969	1.307E-03
7.029E-02	0.999973	1.471E-03
7.349E-02	C.999976	1.681E-03
7.737E-02	0.999980	1.961E-03
8.221E-02	0.999983	2.353E-03
8.356E-02	C.999987	2.941E-03
9.747E-02	0.999990	3.922E-03
1.110E-01	C.999994	5.883E-03
1.406E-01	C.999997	1.177E-02
1.456E-01	C.999997	1.307E-02
1.514E-01	0.999998	1.471E-02
1.583E-01	C.999998	1.681E-02
1.667E-01	0.999998	1.961E-02
1.771E-01	C.999999	2.353E-02
1.903E-01	C.999999	2.942E-02
2.100E-01	C.999999	3.922E-02
2.404E-01	1.000000	5.884E-02
3.029E-01	1.000000	1.177E-01
3.137E-01	1.000000	1.308E-01
3.263E-01	1.000000	1.471E-01
3.412E-01	1.000000	1.682E-01
3.592E-01	1.000000	1.962E-01
3.817E-01	1.000000	2.355E-01
4.112E-01	1.000000	2.944E-01
4.526E-01	1.000000	3.926E-01
5.182E-01	1.000000	5.893E-01
6.533E-01	1.000000	1.181E 00

SODIUM NITRATE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.247E-03	0.843381	1.961E-06
8.456E-03	0.855608	2.139E-06
8.693E-03	0.867669	2.353E-06
8.964E-03	0.879503	2.615E-06
9.281E-03	0.891498	2.942E-06
9.657E-03	0.903592	3.362E-06
1.011E-02	0.916180	3.922E-06
1.069E-02	0.929061	4.707E-06
1.145E-02	0.942224	5.883E-06
1.183E-02	0.947603	6.537E-06
1.228E-02	0.953013	7.354E-06
1.281E-02	0.958570	8.405E-06
1.345E-02	0.964133	9.805E-06
1.425E-02	0.969811	1.177E-05
1.474E-02	0.972694	1.307E-05
1.531E-02	0.975579	1.471E-05
1.599E-02	0.978501	1.681E-05
1.681E-02	0.981438	1.961E-05
1.784E-02	0.984402	2.353E-05
1.919E-02	0.987389	2.942E-05
2.109E-02	0.990431	3.922E-05
2.411E-02	0.993526	5.883E-05
3.033E-02	0.996691	1.177E-04
3.141E-02	0.996996	1.307E-04
3.266E-02	0.997307	1.471E-04
3.415E-02	0.997623	1.681E-04
3.594E-02	0.997946	1.961E-04
3.819E-02	0.998274	2.353E-04
4.113E-02	0.998608	2.941E-04
4.526E-02	0.998948	3.922E-04
5.181E-02	0.999293	5.883E-04
6.526E-02	0.999644	1.177E-03
6.759E-02	0.999680	1.307E-03
7.030E-02	0.999715	1.471E-03
7.350E-02	0.999751	1.681E-03

7.737E-02	0.999786	1.961E-03
8.222E-02	0.999822	2.353E-03
8.857E-02	0.999858	2.941E-03
9.748E-02	0.999893	3.922E-03
1.116E-01	0.999929	5.883E-03
1.406E-01	0.999965	1.177E-02
1.456E-01	0.999968	1.307E-02
1.514E-01	0.999972	1.471E-02
1.583E-01	0.999975	1.681E-02
1.667E-01	0.999979	1.961E-02
1.771E-01	0.999983	2.353E-02
1.908E-01	0.999986	2.941E-02
2.100E-01	0.999990	3.922E-02
2.404E-01	0.999993	5.883E-02
3.029E-01	0.999997	1.177E-01
3.137E-01	0.999997	1.307E-01
3.263E-01	0.999997	1.471E-01
3.411E-01	0.999998	1.681E-01
3.591E-01	0.999998	1.961E-01
3.816E-01	0.999998	2.353E-01
4.111E-01	0.999999	2.942E-01
4.524E-01	0.999999	3.922E-01
5.179E-01	0.999999	5.884E-01
6.526E-01	1.000000	1.177E 00
6.759E-01	1.000000	1.308E 00
7.030E-01	1.000000	1.471E 00
7.350E-01	1.000000	1.682E 00
7.738E-01	1.000000	1.962E 00
8.223E-01	1.000000	2.355E 00
8.858E-01	1.000000	2.944E 00
9.751E-01	1.000000	3.926E 00
1.116E 00	1.000000	5.893E 00
1.407E 00	1.000000	1.181E 01

SODIUM NITRATE

PERCENTAGE	MOLALITY	DENSITY
0.40	7.843	1.3175
0.35	6.335	1.2701
0.30	5.042	1.2256
0.24	3.715	1.1752
0.22	3.318	1.1589
0.20	2.941	1.1429
0.18	2.582	1.1272
0.16	2.241	1.1118
0.14	1.915	1.0967
0.12	1.604	1.0819
0.10	1.307	1.0674
0.08	1.023	1.0532
0.06	0.751	1.0392
0.04	0.490	1.0254
0.02	0.240	1.0117
0.01	0.119	1.0049
0.00	0.000	1.0000

(9) SODIUM BROMIDE

SODIUM BROMIDE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
102.91	3.205	2.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.4643E-05	1.9530E-06
1.00E-15	6.7968E-05	4.2075E-06
1.00E-14	3.1548E-04	9.0649E-06
1.00E-13	1.4643E-03	1.9530E-05
1.00E-12	6.7968E-03	4.2075E-05
1.00E-11	3.1548E-02	9.0649E-05
1.00E-10	1.4643E-01	1.9530E-04
1.00E-09	6.7968E-01	4.2075E-04
1.00E-08	3.1548E 00	9.0649E-04
1.00E-07	1.4643E 01	1.9530E-03
1.00E-06	6.7968E 01	4.2075E-03

SODIUM BROMIDE
(ONE-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
4.0000	0.84131	2.61765
3.5000	0.86501	2.47513
3.0000	0.88723	2.35190
2.5000	0.90837	2.23991
2.0000	0.92860	2.13407
1.8000	0.93648	2.09190
1.6000	0.94415	2.05242
1.4000	0.95163	2.01556
1.2000	0.95897	1.97917
1.0000	0.96607	1.94945
0.9000	0.96957	1.93576
0.8000	0.97307	1.92009
0.7000	0.97652	1.90656
0.6000	0.97995	1.89311
0.5000	0.98333	1.88177
0.4000	0.98670	1.87049
0.3000	0.99002	1.86534
0.2000	0.99334	1.86222
0.1000	0.99664	1.87114
0.0900	0.99695	1.88407
0.0800	0.99727	1.89699
0.0700	0.99760	1.90989
0.0600	0.99793	1.92279
0.0500	0.99826	1.93568
0.0400	0.99860	1.94856
0.0300	0.99894	1.96143
0.0200	0.99929	1.97429
0.0100	0.99964	1.98714
0.0090	0.99968	1.98841
0.0080	0.99971	1.98969
0.0070	0.99975	1.99095
0.0060	0.99978	1.99224
0.0050	0.99982	1.99358
0.0040	0.99986	1.99479
0.0030	0.99989	1.99603

0.0020	0.99993	1.99733
0.0019	0.99993	1.99752
0.0018	0.99994	1.99750
0.0017	0.99994	1.99773
0.0016	0.99994	1.99772
0.0015	0.99995	1.99799
0.0014	0.99995	1.99800
0.0013	0.99995	1.99834
0.0012	0.99996	1.99838
0.0011	0.99996	1.99844
0.0010	0.99996	1.99851
0.0009	0.99997	1.99859
0.0008	0.99997	1.99870
0.0007	0.99997	1.99884
0.0006	0.99998	1.99903
0.0005	0.99998	1.99930
0.0004	0.99999	1.99868
0.0003	0.99999	1.99902
0.0002	0.99999	1.99972
0.0001	1.00000	2.00000

SODIUM BROMIDE

(CRYSTAL MASS .00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.011E-06	0.860610	2.431E-16
4.178E-06	0.884380	2.778E-16
4.331E-06	0.906510	3.241E-16
4.636E-06	0.927358	3.889E-16
4.972E-06	0.947044	4.861E-16
5.139E-06	0.954605	5.401E-16
5.335E-06	0.961889	6.076E-16
5.566E-06	0.968898	6.944E-16
5.848E-06	0.975668	8.101E-16
6.201E-06	0.982062	9.721E-16
6.415E-06	0.985142	1.080E-15
6.665E-06	0.988176	1.215E-15
6.960E-06	0.991092	1.389E-15
7.319E-06	0.993908	1.620E-15
7.768E-06	0.996583	1.944E-15
8.358E-06	0.999106	2.430E-15
9.188E-06	1.001386	3.240E-15
1.050E-05	1.003348	4.860E-15
1.322E-05	1.004652	9.721E-15
1.369E-05	1.004695	1.080E-14
1.424E-05	1.004722	1.215E-14
1.488E-05	1.004727	1.389E-14
1.566E-05	1.004703	1.620E-14
1.664E-05	1.004642	1.944E-14
1.793E-05	1.004526	2.430E-14
1.973E-05	1.004331	3.240E-14
2.258E-05	1.004001	4.860E-14
2.845E-05	1.003383	9.720E-14
2.946E-05	1.003290	1.080E-13
3.054E-05	1.003186	1.215E-13
3.204E-05	1.003071	1.389E-13
3.373E-05	1.002940	1.620E-13
3.584E-05	1.002790	1.944E-13
3.860E-05	1.002613	2.430E-13
4.249E-05	1.002397	3.240E-13

4.864E-05	1.002115	4.860E-13
6.128E-05	1.001700	9.720E-13
6.347E-05	1.001644	1.080E-12
6.601E-05	1.001583	1.215E-12
6.901E-05	1.001516	1.389E-12
7.265E-05	1.001443	1.620E-12
7.721E-05	1.001360	1.944E-12
8.317E-05	1.001265	2.430E-12
9.154E-05	1.001151	3.240E-12
1.048E-04	1.001008	4.860E-12
1.320E-04	1.000802	9.720E-12
1.367E-04	1.000775	1.080E-11
1.422E-04	1.000745	1.215E-11
1.487E-04	1.000713	1.389E-11
1.565E-04	1.000677	1.620E-11
1.663E-04	1.000638	1.944E-11
1.792E-04	1.000592	2.430E-11
1.972E-04	1.000538	3.240E-11
2.258E-04	1.000470	4.861E-11
2.845E-04	1.000373	9.723E-11
2.946E-04	1.000361	1.080E-10
3.064E-04	1.000347	1.215E-10
3.204E-04	1.000332	1.389E-10
3.373E-04	1.000315	1.621E-10
3.584E-04	1.000296	1.945E-10
3.951E-04	1.000275	2.432E-10
4.250E-04	1.000259	3.244E-10
4.866E-04	1.000218	4.868E-10
6.135E-04	1.000173	9.755E-10

SODIUM BROMIDE
(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.642E-06	0.850213	2.430E-15
9.002E-06	0.873945	2.778E-15
9.439E-06	0.896126	3.241E-15
9.983E-06	0.917132	3.889E-15
1.071E-05	0.937116	4.861E-15
1.107E-05	0.944847	5.401E-15
1.149E-05	0.952341	6.076E-15
1.199E-05	0.959604	6.944E-15
1.260E-05	0.966685	8.101E-15
1.336E-05	0.973461	9.721E-15
1.382E-05	0.976767	1.080E-14
1.436E-05	0.980054	1.215E-14
1.500E-05	0.983258	1.389E-14
1.577E-05	0.986403	1.620E-14
1.674E-05	0.989461	1.944E-14
1.801E-05	0.992440	2.430E-14
1.980E-05	0.995279	3.240E-14
2.263E-05	0.997970	4.860E-14
2.848E-05	1.000351	9.720E-14
2.949E-05	1.000540	1.080E-13
3.067E-05	1.000724	1.215E-13
3.206E-05	1.000900	1.389E-13
3.375E-05	1.001066	1.620E-13
3.586E-05	1.001217	1.944E-13
3.862E-05	1.001345	2.430E-13
4.250E-05	1.001439	3.240E-13
4.865E-05	1.001473	4.860E-13
6.129E-05	1.001377	9.720E-13
6.347E-05	1.001353	1.080E-12
6.602E-05	1.001324	1.215E-12
6.902E-05	1.001290	1.389E-12
7.256E-05	1.001248	1.620E-12
7.721E-05	1.001198	1.944E-12
8.317E-05	1.001135	2.430E-12
9.154E-05	1.001054	3.240E-12

1.048E-04	1.000943	4.860E-12
1.320E-04	1.000770	9.720E-12
1.367E-04	1.000745	1.080E-11
1.422E-04	1.000719	1.215E-11
1.487E-04	1.000690	1.389E-11
1.565E-04	1.000658	1.620E-11
1.663E-04	1.000621	1.944E-11
1.792E-04	1.000579	2.430E-11
1.972E-04	1.000528	3.240E-11
2.257E-04	1.000464	4.860E-11
2.844E-04	1.000370	9.720E-11
2.946E-04	1.000358	1.080E-10
3.064E-04	1.000344	1.215E-10
3.203E-04	1.000329	1.389E-10
3.372E-04	1.000313	1.620E-10
3.584E-04	1.000295	1.944E-10
3.860E-04	1.000274	2.430E-10
4.249E-04	1.000249	3.240E-10
4.364E-04	1.000218	4.861E-10
6.128E-04	1.000173	9.723E-10
6.347E-04	1.000167	1.080E-09
6.602E-04	1.000161	1.215E-09
6.902E-04	1.000154	1.389E-09
7.267E-04	1.000146	1.621E-09
7.722E-04	1.000137	1.945E-09
8.319E-04	1.000128	2.432E-09
9.157E-04	1.000116	3.244E-09
1.048E-03	1.000101	4.868E-09
1.322E-03	1.000080	9.754E-09

SODIUM BROMIDE
(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.862E-05	0.845429	2.430E-14
1.939E-05	0.869144	2.778E-14
2.034E-05	0.891347	3.240E-14
2.152E-05	0.912424	3.888E-14
2.308E-05	0.932543	4.860E-14
2.385E-05	0.940352	5.400E-14
2.476E-05	0.947941	6.076E-14
2.584E-05	0.955320	6.943E-14
2.714E-05	0.962543	8.101E-14
2.878E-05	0.969455	9.721E-14
2.978E-05	0.972904	1.080E-13
3.093E-05	0.976307	1.215E-13
3.231E-05	0.979643	1.389E-13
3.397E-05	0.982939	1.620E-13
3.606E-05	0.986172	1.944E-13
3.879E-05	0.989360	2.430E-13
4.265E-05	0.992458	3.240E-13
4.876E-05	0.995484	4.860E-13
6.136E-05	0.998361	9.720E-13
6.354E-05	0.998617	1.080E-12
6.608E-05	0.998874	1.215E-12
6.907E-05	0.999129	1.389E-12
7.271E-05	0.999382	1.620E-12
7.725E-05	0.999631	1.944E-12
8.321E-05	0.999872	2.430E-12
9.157E-05	1.000100	3.240E-12
1.048E-04	1.000302	4.860E-12
1.320E-04	1.000447	9.720E-12
1.369E-04	1.000455	1.080E-11
1.422E-04	1.000461	1.215E-11
1.487E-04	1.000464	1.389E-11
1.565E-04	1.000464	1.620E-11
1.663E-04	1.000459	1.944E-11
1.792E-04	1.000450	2.430E-11
1.972E-04	1.000431	3.240E-11

2.258E-04	1.000399	4.860E-11
2.844E-04	1.000338	9.720E-11
2.940E-04	1.000328	1.080E-10
3.064E-04	1.000318	1.215E-10
3.203E-04	1.000307	1.389E-10
3.372E-04	1.000294	1.620E-10
3.583E-04	1.000279	1.944E-10
3.860E-04	1.000261	2.430E-10
4.249E-04	1.000239	3.240E-10
4.864E-04	1.000211	4.860E-10
6.128E-04	1.000170	9.720E-10
6.347E-04	1.000164	1.080E-09
6.501E-04	1.000158	1.215E-09
6.701E-04	1.000152	1.389E-09
7.265E-04	1.000144	1.620E-09
7.720E-04	1.000136	1.944E-09
8.317E-04	1.000126	2.430E-09
9.154E-04	1.000115	3.240E-09
1.048E-03	1.000101	4.860E-09
1.321E-03	1.000080	9.723E-09
1.363E-03	1.000077	1.080E-08
1.422E-03	1.000074	1.215E-08
1.487E-03	1.000071	1.389E-08
1.566E-03	1.000068	1.621E-08
1.664E-03	1.000064	1.945E-08
1.792E-03	1.000059	2.432E-08
1.973E-03	1.000054	3.244E-08
2.259E-03	1.000047	4.868E-08
2.848E-03	1.000037	9.754E-08

SODIUM BROMIDE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS (CM)	SATURATION RATIO	WATER CONTENT (GM)
4.081E-05	0.843219	2.430E-13
4.178E-05	0.866924	2.777E-13
4.281E-05	0.889137	3.240E-13
4.388E-05	0.910247	3.888E-13
4.497E-05	0.930429	4.850E-13
5.139E-05	0.933273	5.400E-13
5.335E-05	0.945906	6.075E-13
5.560E-05	0.953339	6.943E-13
5.847E-05	0.960627	8.100E-13
6.201E-05	0.967660	9.720E-13
6.415E-05	0.971116	1.080E-12
6.665E-05	0.974573	1.215E-12
6.950E-05	0.977969	1.389E-12
7.319E-05	0.981335	1.620E-12
7.758E-05	0.984650	1.944E-12
8.353E-05	0.987934	2.430E-12
9.189E-05	0.991150	3.240E-12
1.050E-04	0.994332	4.860E-12
1.322E-04	0.997433	9.720E-12
1.369E-04	0.997726	1.080E-11
1.424E-04	0.998016	1.215E-11
1.488E-04	0.998300	1.389E-11
1.562E-04	0.998579	1.620E-11
1.654E-04	0.998853	1.944E-11
1.793E-04	0.999189	2.430E-11
1.973E-04	0.999473	3.240E-11
2.258E-04	0.999759	4.860E-11
2.845E-04	1.000016	9.720E-11
2.946E-04	1.000034	1.080E-10
3.059E-04	1.000050	1.215E-10
3.189E-04	1.000071	1.389E-10
3.372E-04	1.000101	1.620E-10
3.634E-04	1.000117	1.944E-10
3.850E-04	1.000132	2.430E-10
4.249E-04	1.000147	3.240E-10

4.864E-04	1.000147	4.860E-10
6.128E-04	1.000137	9.719E-10
6.347E-04	1.000135	1.080E-09
6.601E-04	1.000132	1.215E-09
6.901E-04	1.000129	1.388E-09
7.255E-04	1.000125	1.620E-09
7.720E-04	1.000120	1.944E-09
8.316E-04	1.000113	2.430E-09
9.153E-04	1.000105	3.240E-09
1.043E-03	1.000094	4.860E-09
1.320E-03	1.000077	9.719E-09
1.367E-03	1.000075	1.080E-08
1.422E-03	1.000072	1.215E-08
1.487E-03	1.000069	1.389E-08
1.565E-03	1.000066	1.620E-08
1.663E-03	1.000062	1.944E-08
1.792E-03	1.000058	2.430E-08
1.972E-03	1.000053	3.240E-08
2.258E-03	1.000046	4.860E-08
2.844E-03	1.000037	9.722E-08
2.946E-03	1.000036	1.080E-07
3.064E-03	1.000034	1.215E-07
3.204E-03	1.000033	1.389E-07
3.373E-03	1.000031	1.621E-07
3.584E-03	1.000029	1.945E-07
3.861E-03	1.000027	2.432E-07
4.250E-03	1.000025	3.243E-07
4.866E-03	1.000022	4.868E-07
6.135E-03	1.000017	9.754E-07

SODIUM BROMIDE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.642E-05	0.842194	2.430E-12
9.002E-05	0.865896	2.777E-12
9.439E-05	0.888113	3.240E-12
9.988E-05	0.909238	3.888E-12
1.071E-04	0.929449	4.860E-12
1.107E-04	0.937310	5.400E-12
1.149E-04	0.944962	6.075E-12
1.199E-04	0.952420	6.943E-12
1.260E-04	0.959739	8.100E-12
1.336E-04	0.966809	9.720E-12
1.382E-04	0.970287	1.080E-11
1.436E-04	0.973769	1.215E-11
1.499E-04	0.977194	1.389E-11
1.577E-04	0.980592	1.620E-11
1.674E-04	0.983944	1.944E-11
1.801E-04	0.987273	2.430E-11
1.979E-04	0.990544	3.240E-11
2.253E-04	0.993798	4.860E-11
2.348E-04	0.994711	5.400E-11
2.949E-04	0.997313	1.080E-10
3.067E-04	0.997618	1.215E-10
3.206E-04	0.997927	1.389E-10
3.375E-04	0.998240	1.620E-10
3.586E-04	0.998555	1.944E-10
3.862E-04	0.998872	2.430E-10
4.250E-04	0.999191	3.240E-10
4.865E-04	0.999507	4.860E-10
6.128E-04	0.999815	9.719E-10
6.347E-04	0.999845	1.080E-09
6.601E-04	0.999874	1.215E-09
6.902E-04	0.999903	1.388E-09
7.266E-04	0.999931	1.620E-09
7.721E-04	0.999958	1.944E-09
8.317E-04	0.999984	2.430E-09
9.154E-04	1.000008	3.240E-09

1.048E-03	1.000029	4.860E-09
1.320E-03	1.000043	9.719E-09
1.367E-03	1.000045	1.080E-08
1.422E-03	1.000046	1.215E-08
1.487E-03	1.000046	1.380E-08
1.565E-03	1.000045	1.620E-08
1.663E-03	1.000046	1.944E-08
1.792E-03	1.000045	2.430E-08
1.972E-03	1.000043	3.240E-08
2.257E-03	1.000040	4.860E-08
2.844E-03	1.000034	9.719E-08
2.946E-03	1.000033	1.080E-07
3.064E-03	1.000032	1.215E-07
3.203E-03	1.000031	1.380E-07
3.372E-03	1.000029	1.620E-07
3.583E-03	1.000028	1.944E-07
3.860E-03	1.000026	2.430E-07
4.249E-03	1.000024	3.240E-07
4.864E-03	1.000021	4.860E-07
6.128E-03	1.000017	9.722E-07
6.347E-03	1.000016	1.080E-06
6.602E-03	1.000016	1.215E-06
6.902E-03	1.000015	1.389E-06
7.266E-03	1.000014	1.621E-06
7.722E-03	1.000014	1.945E-06
8.319E-03	1.000013	2.432E-06
9.157E-03	1.000011	3.243E-06
1.048E-02	1.000010	4.868E-06
1.322E-02	1.000008	9.754E-06

SODIUM BROMIDE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.352E-04	0.841719	2.430E-11
1.933E-04	0.865419	2.777E-11
2.034E-04	0.887638	3.240E-11
2.152E-04	0.908770	3.888E-11
2.307E-04	0.928934	4.850E-11
2.385E-04	0.936853	5.400E-11
2.470E-04	0.944525	6.075E-11
2.584E-04	0.951994	6.993E-11
2.714E-04	0.959327	8.100E-11
2.878E-04	0.966414	9.720E-11
2.978E-04	0.969603	1.080E-10
3.043E-04	0.973396	1.215E-10
3.230E-04	0.976834	1.389E-10
3.397E-04	0.980247	1.620E-10
3.606E-04	0.983616	1.944E-10
3.879E-04	0.986966	2.430E-10
4.255E-04	0.990263	3.240E-10
4.875E-04	0.993550	4.860E-10
6.135E-04	0.996912	9.719E-10
6.354E-04	0.997121	1.080E-09
6.617E-04	0.997433	1.215E-09
6.907E-04	0.997750	1.388E-09
7.271E-04	0.998072	1.620E-09
7.725E-04	0.998367	1.944E-09
8.321E-04	0.998729	2.430E-09
9.157E-04	0.999057	3.240E-09
1.043E-03	0.999390	4.860E-09
1.232E-03	0.999723	9.719E-09
1.357E-03	0.999755	1.080E-08
1.502E-03	0.999793	1.215E-08
1.686E-03	0.999829	1.388E-08
1.926E-03	0.999864	1.620E-08
1.938E-03	0.999884	1.944E-08
1.772E-03	0.999916	2.430E-08
1.772E-03	0.999944	3.240E-08

2.257E-03	0.999975	4.860E-08
2.844E-03	1.000001	9.719E-08
2.946E-03	1.000004	1.080E-07
3.064E-03	1.000006	1.215E-07
3.203E-03	1.000008	1.388E-07
3.372E-03	1.000010	1.620E-07
3.583E-03	1.000012	1.944E-07
3.860E-03	1.000013	2.430E-07
4.249E-03	1.000014	3.240E-07
4.863E-03	1.000015	4.859E-07
6.128E-03	1.000014	9.719E-07
6.347E-03	1.000014	1.080E-06
6.601E-03	1.000013	1.215E-06
6.901E-03	1.000013	1.368E-06
7.265E-03	1.000012	1.620E-06
7.720E-03	1.000012	1.944E-06
8.316E-03	1.000011	2.430E-06
9.154E-03	1.000011	3.240E-06
1.048E-02	1.000009	4.860E-06
1.320E-02	1.000008	9.722E-06
1.367E-02	1.000007	1.080E-05
1.422E-02	1.000007	1.215E-05
1.487E-02	1.000007	1.389E-05
1.565E-02	1.000007	1.621E-05
1.664E-02	1.000006	1.945E-05
1.792E-02	1.000006	2.432E-05
1.973E-02	1.000005	3.243E-05
2.259E-02	1.000005	4.868E-05
2.847E-02	1.000004	9.753E-05

SODIUM BROMIDE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.011E-04	0.841459	2.430E-10
4.178E-04	0.865153	2.777E-10
4.331E-04	0.887418	3.240E-10
4.636E-04	0.908553	3.889E-10
4.971E-04	0.928783	4.860E-10
5.139E-04	0.936656	5.400E-10
5.334E-04	0.944322	6.075E-10
5.569E-04	0.951797	6.943E-10
5.847E-04	0.959136	8.100E-10
6.200E-04	0.966231	9.720E-10
6.415E-04	0.969725	1.080E-09
6.684E-04	0.973223	1.215E-09
6.950E-04	0.976667	1.389E-09
7.314E-04	0.980087	1.620E-09
7.768E-04	0.983464	1.944E-09
8.358E-04	0.986824	2.430E-09
9.188E-04	0.990123	3.240E-09
1.050E-03	0.993435	4.860E-09
1.322E-03	0.996720	9.719E-09
1.399E-03	0.997032	1.080E-08
1.479E-03	0.997348	1.215E-08
1.488E-03	0.997668	1.389E-08
1.500E-03	0.997994	1.620E-08
1.515E-03	0.998323	1.944E-08
1.733E-03	0.998657	2.430E-08
1.[illegible]E-03	0.998996	3.240E-08
2.2[illegible]E-03	0.999339	4.860E-08
2.84[illegible]E-03	0.999679	9.719E-08
2.9[illegible]E-03	0.999714	1.080E-07
3.0[illegible]E-03	0.999748	1.215E-07
3.[illegible]E-03	0.999782	1.389E-07
3.[illegible]E-03	0.999816	1.620E-07
3.[illegible]E-03	0.999850	1.944E-07
3.[illegible]E-03	0.999884	2.430E-07
4.[illegible]E-03	0.999917	3.240E-07

4.463E-03	0.999950	4.859E-07
6.128E-03	0.999981	9.719E-07
6.347E-03	0.999984	1.080E-06
6.601E-03	0.999987	1.215E-06
6.901E-03	0.999990	1.389E-06
7.265E-03	0.999993	1.620E-06
7.720E-03	0.999996	1.944E-06
8.316E-03	0.999998	2.430E-06
9.153E-03	1.000001	3.240E-06
1.048E-02	1.000003	4.859E-06
1.320E-02	1.000004	9.719E-06
1.357E-02	1.000005	1.080E-05
1.422E-02	1.000005	1.215E-05
1.487E-02	1.000005	1.389E-05
1.569E-02	1.000005	1.620E-05
1.663E-02	1.000005	1.944E-05
1.792E-02	1.000004	2.430E-05
1.972E-02	1.000004	3.240E-05
2.257E-02	1.000004	4.860E-05
2.344E-02	1.000003	9.722E-05
2.940E-02	1.000003	1.080E-04
3.054E-02	1.000003	1.215E-04
3.204E-02	1.000003	1.389E-04
3.373E-02	1.000002	1.621E-04
3.594E-02	1.000003	1.945E-04
3.351E-02	1.000003	2.432E-04
4.250E-02	1.000002	3.243E-04
4.856E-02	1.000002	4.868E-04
6.135E-02	1.000002	9.753E-04

SODIUM BROMIDE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.642E-04	0.841396	2.430E-09
9.002E-04	0.865095	2.777E-09
9.439E-04	0.887316	3.240E-09
9.984E-04	0.908452	3.888E-09
1.071E-03	0.928685	4.860E-09
1.107E-03	0.936559	5.400E-09
1.149E-03	0.944228	6.075E-09
1.199E-03	0.951705	6.942E-09
1.260E-03	0.959047	8.099E-09
1.336E-03	0.966146	9.719E-09
1.342E-03	0.965642	1.080E-08
1.436E-03	0.973143	1.215E-08
1.499E-03	0.976589	1.388E-08
1.577E-03	0.980012	1.620E-08
1.674E-03	0.983394	1.944E-08
1.801E-03	0.986758	2.430E-08
1.979E-03	0.990072	3.240E-08
2.263E-03	0.993391	4.860E-08
2.948E-03	0.996678	9.719E-08
2.949E-03	0.996990	1.080E-07
3.057E-03	0.997308	1.215E-07
3.206E-03	0.997630	1.388E-07
3.375E-03	0.997957	1.620E-07
3.586E-03	0.998289	1.944E-07
3.862E-03	0.998625	2.430E-07
4.250E-03	0.998966	3.240E-07
4.865E-03	0.999311	4.859E-07
6.128E-03	0.999659	9.719E-07
6.347E-03	0.999694	1.080E-06
6.601E-03	0.999729	1.215E-06
6.902E-03	0.999764	1.388E-06
7.255E-03	0.999799	1.620E-06
7.721E-03	0.999834	1.944E-06
8.317E-03	0.999869	2.430E-06
9.154E-03	0.999904	3.240E-06

1.048E-02	0.999933	4.859E-06
1.320E-02	0.999972	9.719E-06
1.367E-02	0.999975	1.080E-05
1.422E-02	0.999979	1.215E-05
1.487E-02	0.999982	1.368E-05
1.565E-02	0.999985	1.620E-05
1.663E-02	0.999988	1.944E-05
1.792E-02	0.999992	2.430E-05
1.972E-02	0.999995	3.239E-05
2.257E-02	0.999997	4.859E-05
2.844E-02	1.000000	9.719E-05
2.946E-02	1.000000	1.080E-04
3.064E-02	1.000001	1.215E-04
3.203E-02	1.000001	1.368E-04
3.372E-02	1.000001	1.620E-04
3.583E-02	1.000001	1.944E-04
3.860E-02	1.000001	2.430E-04
4.249E-02	1.000001	3.240E-04
4.864E-02	1.000001	4.860E-04
6.128E-02	1.000001	9.722E-04
6.347E-02	1.000001	1.080E-03
6.601E-02	1.000001	1.215E-03
6.902E-02	1.000001	1.389E-03
7.266E-02	1.000001	1.621E-03
7.722E-02	1.000001	1.945E-03
8.314E-02	1.000001	2.432E-03
9.157E-02	1.000001	3.243E-03
1.048E-01	1.000001	4.868E-03
1.322E-01	1.000001	9.753E-03

SODIUM BROMIDE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.852E-03	0.841349	2.430E-08
1.939E-03	0.865047	2.777E-08
2.033E-03	0.887268	3.240E-08
2.152E-03	0.908406	3.888E-08
2.307E-03	0.928640	4.860E-08
2.385E-03	0.936515	5.400E-08
2.476E-03	0.944184	6.075E-08
2.583E-03	0.951662	6.942E-08
2.714E-03	0.959006	8.099E-08
2.878E-03	0.966107	9.719E-08
2.977E-03	0.969603	1.080E-07
3.093E-03	0.973105	1.215E-07
3.230E-03	0.976553	1.388E-07
3.397E-03	0.979978	1.620E-07
3.605E-03	0.983361	1.944E-07
3.879E-03	0.986727	2.430E-07
4.264E-03	0.990044	3.240E-07
4.876E-03	0.993357	4.859E-07
6.135E-03	0.996658	9.719E-07
6.354E-03	0.996971	1.080E-06
6.607E-03	0.997290	1.215E-06
6.907E-03	0.997613	1.388E-06
7.270E-03	0.997941	1.620E-06
7.725E-03	0.998273	1.944E-06
8.320E-03	0.998611	2.430E-06
9.157E-03	0.998953	3.240E-06
1.048E-02	0.999299	4.859E-06
1.320E-02	0.999650	9.718E-06
1.367E-02	0.999685	1.080E-05
1.422E-02	0.999721	1.215E-05
1.487E-02	0.999756	1.388E-05
1.565E-02	0.999791	1.620E-05
1.663E-02	0.999827	1.944E-05
1.792E-02	0.999862	2.430E-05
1.972E-02	0.999898	3.239E-05

2.257E-02	0.999933	4.859E-05
2.844E-02	0.999968	9.718E-05
2.946E-02	0.999971	1.080E-04
3.064E-02	0.999975	1.215E-04
3.203E-02	0.999978	1.388E-04
3.372E-02	0.999982	1.620E-04
3.583E-02	0.999985	1.944E-04
3.860E-02	0.999988	2.430E-04
4.248E-02	0.999992	3.239E-04
4.863E-02	0.999995	4.859E-04
6.127E-02	0.999998	9.718E-04
6.346E-02	0.999998	1.080E-03
6.601E-02	0.999999	1.215E-03
6.901E-02	0.999999	1.388E-03
7.265E-02	0.999999	1.620E-03
7.720E-02	1.000000	1.944E-03
8.316E-02	1.000000	2.430E-03
9.153E-02	1.000000	3.240E-03
1.048E-01	1.000000	4.860E-03
1.320E-01	1.000000	9.721E-03
1.367E-01	1.000000	1.080E-02
1.422E-01	1.000000	1.215E-02
1.487E-01	1.000000	1.389E-02
1.565E-01	1.000000	1.621E-02
1.664E-01	1.000000	1.945E-02
1.792E-01	1.000000	2.432E-02
1.973E-01	1.000000	3.243E-02
2.259E-01	1.000000	4.868E-02
2.847E-01	1.000000	9.753E-02

SODIUM BROMIDE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.011E-03	0.841327	2.430E-07
4.178E-03	0.865025	2.777E-07
4.381E-03	0.887246	3.240E-07
4.636E-03	0.908384	3.888E-07
4.971E-03	0.928619	4.860E-07
5.139E-03	0.936494	5.399E-07
5.334E-03	0.944164	6.074E-07
5.566E-03	0.951642	6.942E-07
5.847E-03	0.958987	8.099E-07
6.200E-03	0.966088	9.719E-07
6.415E-03	0.969586	1.080E-06
6.664E-03	0.973088	1.215E-06
6.960E-03	0.976537	1.388E-06
7.318E-03	0.979962	1.620E-06
7.768E-03	0.983346	1.944E-06
8.357E-03	0.986713	2.430E-06
9.187E-03	0.990031	3.240E-06
1.050E-02	0.993345	4.859E-06
1.322E-02	0.996648	9.718E-06
1.369E-02	0.996962	1.080E-05
1.423E-02	0.997281	1.215E-05
1.488E-02	0.997604	1.368E-05
1.566E-02	0.997933	1.620E-05
1.664E-02	0.998266	1.944E-05
1.793E-02	0.998604	2.430E-05
1.977E-02	0.998946	3.239E-05
2.258E-02	0.999294	4.859E-05
2.844E-02	0.999646	9.718E-05
2.946E-02	0.999681	1.080E-04
3.064E-02	0.999717	1.215E-04
3.203E-02	0.999752	1.388E-04
3.372E-02	0.999788	1.620E-04
3.584E-02	0.999823	1.944E-04
3.850E-02	0.999859	2.430E-04
4.214E-02	0.999895	3.239E-04

4.963E-02	0.999930	4.859E-04
6.127E-02	0.999966	9.718E-04
6.346E-02	0.999969	1.080E-03
6.601E-02	0.999973	1.215E-03
6.901E-02	0.999976	1.389E-03
7.265E-02	0.999980	1.620E-03
7.720E-02	0.999983	1.944E-03
8.316E-02	0.999987	2.430E-03
9.153E-02	0.999990	3.239E-03
1.048E-01	0.999994	4.859E-03
1.320E-01	0.999997	9.718E-03
1.367E-01	0.999998	1.080E-02
1.422E-01	0.999998	1.215E-02
1.487E-01	0.999998	1.388E-02
1.565E-01	0.999999	1.620E-02
1.663E-01	0.999999	1.944E-02
1.792E-01	0.999999	2.430E-02
1.972E-01	0.999999	3.240E-02
2.257E-01	1.000000	4.860E-02
2.844E-01	1.000000	9.721E-02
2.946E-01	1.000000	1.080E-01
3.064E-01	1.000000	1.215E-01
3.204E-01	1.000000	1.389E-01
3.373E-01	1.000000	1.621E-01
3.584E-01	1.000000	1.945E-01
3.861E-01	1.000000	2.432E-01
4.250E-01	1.000000	3.243E-01
4.866E-01	1.000000	4.867E-01
6.135E-01	1.000000	9.753E-01

NOT REPRODUCIBLE

SODIUM BROMIDE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS (CM)	SATURATION RATIO	WATER GAINED(GM)
8.442E-03	0.841317	2.430E-06
9.001E-03	0.865015	2.777E-06
9.438E-03	0.887236	3.240E-06
9.988E-03	0.908374	3.888E-06
1.077E-02	0.928609	4.859E-06
1.106E-02	0.936464	5.399E-06
1.141E-02	0.944154	6.074E-06
1.190E-02	0.951633	6.942E-06
1.260E-02	0.958978	8.099E-06
1.336E-02	0.966090	9.719E-06
1.388E-02	0.969577	1.080E-05
1.449E-02	0.973080	1.215E-05
1.49?E-02	0.976529	1.388E-05
1.577E-02	0.979954	1.620E-05
1.678E-02	0.983339	1.944E-05
1.801E-02	0.986706	2.430E-05
1.979E-02	0.990025	3.239E-05
2.263E-02	0.993340	4.859E-05
2.848E-02	0.996644	9.718E-05
2.949E-02	0.996958	1.080E-04
3.067E-02	0.997277	1.215E-04
3.206E-02	0.997601	1.388E-04
3.375E-02	0.997929	1.620E-04
3.596E-02	0.998262	1.944E-04
3.852E-02	0.998601	2.430E-04
4.250E-02	0.998944	3.239E-04
4.965E-02	0.999291	4.859E-04
6.128E-02	0.999644	9.718E-04
6.347E-02	0.999679	1.080E-03
6.601E-02	0.999715	1.215E-03
6.901E-02	0.999751	1.388E-03
7.255E-02	0.999786	1.620E-03
7.720E-02	0.999822	1.944E-03
8.310E-02	0.999858	2.429E-03
9.153E-02	0.999893	3.239E-03

1.048E-01	0.999929	4.859E-03
1.320E-01	0.999965	9.718E-03
1.367E-01	0.999968	1.080E-02
1.422E-01	0.999972	1.215E-02
1.487E-01	0.999976	1.368E-02
1.565E-01	0.999979	1.620E-02
1.663E-01	0.999983	1.944E-02
1.792E-01	0.999986	2.429E-02
1.972E-01	0.999990	3.239E-02
2.257E-01	0.999993	4.859E-02
2.844E-01	0.999997	9.718E-02
2.946E-01	0.999997	1.080E-01
3.064E-01	0.999997	1.215E-01
3.203E-01	0.999998	1.368E-01
3.372E-01	0.999998	1.620E-01
3.583E-01	0.999998	1.944E-01
3.860E-01	0.999999	2.430E-01
4.249E-01	0.999999	3.240E-01
4.863E-01	1.000000	4.860E-01
5.128E-01	1.000000	9.721E-01
6.347E-01	1.000000	1.080E 00
6.601E-01	1.000000	1.215E 00
6.902E-01	1.000000	1.389E 00
7.266E-01	1.000000	1.621E 00
7.722E-01	1.000000	1.945E 00
8.318E-01	1.000000	2.432E 00
9.156E-01	1.000000	3.249E 00
1.048E 00	1.000000	4.867E 00
1.322E 00	1.000000	9.752E 00

SODIUM BROMIDE

PERCENTAGE	MOLALITY	DENSITY
0.40	6.478	1.4138
0.35	5.232	1.3462
0.30	4.165	1.2841
0.24	3.069	1.2163
0.22	2.741	1.1951
0.20	2.429	1.1745
0.18	2.133	1.1546
0.16	1.851	1.1352
0.14	1.582	1.1164
0.12	1.325	1.0981
0.10	1.080	1.0803
0.08	0.845	1.0631
0.06	0.620	1.0462
0.04	0.405	1.0298
0.02	0.198	1.0139
0.01	0.098	1.0060
0.00	0.000	1.0000

(10) ZINC NITRATE

ZINC NITRATE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
189.39	2.065	3.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.2647E-05	2.2612E-06
1.00E-15	5.8704E-05	4.8715E-06
1.00E-14	2.7249E-04	1.0495E-05
1.00E-13	1.2647E-03	2.2612E-05
1.00E-12	5.8704E-03	4.8715E-05
1.00E-11	2.7249E-02	1.0495E-04
1.00E-10	1.2647E-01	2.2612E-04
1.00E-09	5.8704E-01	4.8715E-04
1.00E-08	2.7249E 00	1.0495E-03
1.00E-07	1.2647E 01	2.2612E-03
1.00E-06	5.8704E 01	4.8715E-03

ZINC NITRATE
(TWO-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
6.0000	0.44615	11.46496
5.5000	0.49496	10.29828
5.0000	0.54665	9.20713
4.5000	0.60036	8.21151
4.0000	0.65504	7.30823
3.5000	0.70955	6.49226
3.0000	0.76354	5.73027
2.5000	0.81545	5.02519
2.0000	0.86376	4.37776
1.8000	0.88155	4.14372
1.6000	0.89848	3.92008
1.4000	0.91459	3.70284
1.2000	0.92994	3.48504
1.0000	0.94412	3.28556
0.9000	0.95081	3.19079
0.8000	0.95731	3.09400
0.7000	0.96353	3.00141
0.6000	0.96941	2.91911
0.5000	0.97508	2.83766
0.4000	0.98054	2.75397
0.3000	0.98567	2.68936
0.2000	0.99061	2.63139
0.1000	0.99535	2.59203
0.0900	0.99575	2.63300
0.0800	0.99616	2.67394
0.0700	0.99659	2.71483
0.0600	0.99703	2.75569
0.0500	0.99749	2.79651
0.0400	0.99796	2.83729
0.0300	0.99845	2.87802
0.0200	0.99895	2.91871
0.0100	0.99947	2.95935
0.0090	0.99952	2.96345
0.0080	0.99957	2.96748
0.0070	0.99963	2.97158

0.0060	0.99968	2.97558
0.0050	0.99973	2.97967
0.0040	0.99979	2.98371
0.0030	0.99984	2.98779
0.0020	0.99989	2.99176
0.0019	0.99990	2.99225
0.0018	0.99990	2.99256
0.0017	0.99991	2.99291
0.0016	0.99991	2.99330
0.0015	0.99992	2.99375
0.0014	0.99992	2.99427
0.0013	0.99993	2.99455
0.0012	0.99994	2.99488
0.0011	0.99994	2.99527
0.0010	0.99995	2.99574
0.0009	0.99995	2.99633
0.0008	0.99996	2.99654
0.0007	0.99996	2.99682
0.0006	0.99997	2.99720
0.0005	0.99997	2.99774
0.0004	0.99998	2.99753
0.0003	0.99998	2.99855
0.0002	0.99999	2.99855
0.0001	0.99999	2.99859

ZINC NITRATE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.971E-06	0.457827	8.807E-17
3.047E-06	0.507834	9.608E-17
3.138E-06	0.560761	1.057E-16
3.231E-06	0.615700	1.174E-16
3.344E-06	0.671586	1.321E-16
3.478E-06	0.727191	1.510E-16
3.640E-06	0.782136	1.761E-16
3.844E-06	0.834759	2.113E-16
4.111E-06	0.883425	2.641E-16
4.245E-06	0.901213	2.935E-16
4.401E-06	0.919043	3.302E-16
4.585E-06	0.933934	3.773E-16
4.810E-06	0.948926	4.402E-16
5.092E-06	0.962559	5.282E-16
5.264E-06	0.968892	5.859E-16
5.464E-06	0.974967	6.603E-16
5.701E-06	0.980673	7.546E-16
5.989E-06	0.985939	8.804E-16
6.350E-06	0.990859	1.056E-15
6.825E-06	0.995406	1.321E-15
7.495E-06	0.999372	1.761E-15
8.559E-06	1.002743	2.641E-15
1.076E-05	1.005115	5.282E-15
1.114E-05	1.005186	5.869E-15
1.158E-05	1.005246	6.602E-15
1.211E-05	1.005289	7.546E-15
1.274E-05	1.005305	8.803E-15
1.354E-05	1.005284	1.056E-14
1.458E-05	1.005206	1.320E-14
1.604E-05	1.005039	1.761E-14
1.836E-05	1.004714	2.641E-14
2.312E-05	1.004047	5.282E-14
2.395E-05	1.003942	5.869E-14
2.491E-05	1.003825	6.602E-14
2.604E-05	1.003693	7.545E-14

2.741E-05	1.003542	8.803E-14
2.913E-05	1.003	1.056E-13
3.133E-05	1.003161	1.320E-13
3.454E-05	1.002905	1.761E-13
3.954E-05	1.002571	2.641E-13
4.931E-05	1.002072	5.282E-13
5.159E-05	1.002004	5.869E-13
5.355E-05	1.001930	6.602E-13
5.513E-05	1.001850	7.545E-13
5.905E-05	1.001751	8.803E-13
6.275E-05	1.001660	1.056E-12
6.760E-05	1.001545	1.320E-12
7.440E-05	1.001407	1.761E-12
8.517E-05	1.001232	2.641E-12
1.073E-04	1.000981	5.282E-12
1.111E-04	1.000943	5.869E-12
1.156E-04	1.000911	6.602E-12
1.239E-04	1.000872	7.545E-12
1.272E-04	1.000829	8.803E-12
1.352E-04	1.000780	1.056E-11
1.459E-04	1.000725	1.320E-11
1.603E-04	1.000659	1.761E-11
1.835E-04	1.000576	2.641E-11
2.312E-04	1.000457	5.283E-11
2.395E-04	1.000441	5.871E-11
2.491E-04	1.000424	6.605E-11
2.603E-04	1.000406	7.549E-11
2.742E-04	1.000386	8.808E-11
2.913E-04	1.000363	1.057E-10
3.139E-04	1.000337	1.322E-10
3.455E-04	1.000306	1.763E-10
3.950E-04	1.000267	2.645E-10
4.957E-04	1.000212	5.300E-10

ZINC NITRATE

(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
6.400E-06	0.451533	8.807E-16
6.564E-06	0.503894	9.607E-16
6.749E-06	0.553156	1.057E-15
6.950E-06	0.607433	1.174E-15
7.204E-06	0.662667	1.321E-15
7.493E-06	0.717633	1.509E-15
7.842E-06	0.772116	1.761E-15
8.231E-06	0.824355	2.113E-15
8.857E-06	0.872333	2.641E-15
9.145E-06	0.890622	2.935E-15
9.431E-06	0.907508	3.302E-15
9.879E-06	0.923517	3.773E-15
1.036E-05	0.938705	4.402E-15
1.097E-05	0.952634	5.282E-15
1.154E-05	0.959162	5.869E-15
1.177E-05	0.965467	6.603E-15
1.228E-05	0.971451	7.546E-15
1.290E-05	0.977049	8.803E-15
1.368E-05	0.982371	1.056E-14
1.470E-05	0.987413	1.320E-14
1.615E-05	0.992009	1.761E-14
1.844E-05	0.996222	2.641E-14
2.318E-05	0.999872	5.282E-14
2.400E-05	1.000118	5.869E-14
2.495E-05	1.000358	6.602E-14
2.608E-05	1.000617	7.545E-14
2.745E-05	1.000863	8.803E-14
2.916E-05	1.001099	1.056E-13
3.141E-05	1.001317	1.320E-13
3.456E-05	1.001501	1.761E-13
3.955E-05	1.001621	2.641E-13
4.782E-05	1.001590	5.282E-13
5.160E-05	1.001570	5.869E-13
5.369E-05	1.001544	6.602E-13
5.611E-05	1.001511	7.545E-13

5.906E-05	1.001470	8.803E-13
6.276E-05	1.001418	1.056E-12
6.761E-05	1.001350	1.320E-12
7.441E-05	1.001261	1.761E-12
8.517E-05	1.001135	2.641E-12
1.073E-04	1.000932	5.282E-12
1.111E-04	1.000904	5.868E-12
1.156E-04	1.000872	6.602E-12
1.209E-04	1.000838	7.545E-12
1.272E-04	1.000799	8.803E-12
1.352E-04	1.000756	1.056E-11
1.456E-04	1.000705	1.320E-11
1.603E-04	1.000644	1.761E-11
1.835E-04	1.000566	2.641E-11
2.312E-04	1.000452	5.282E-11
2.394E-04	1.000437	5.868E-11
2.490E-04	1.000421	6.602E-11
2.604E-04	1.000403	7.545E-11
2.741E-04	1.000383	8.803E-11
2.913E-04	1.000361	1.056E-10
3.138E-04	1.000335	1.320E-10
3.454E-04	1.000305	1.761E-10
3.953E-04	1.000267	2.641E-10
4.881E-04	1.000212	5.283E-10
5.159E-04	1.000205	5.870E-10
5.566E-04	1.000197	6.605E-10
5.510E-04	1.000188	7.549E-10
5.906E-04	1.000179	8.807E-10
6.277E-04	1.000168	1.057E-09
6.762E-04	1.000156	1.322E-09
7.443E-04	1.000142	1.763E-09
8.522E-04	1.000124	2.645E-09
1.074E-03	1.000098	5.300E-09

ZINC NITRATE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.379E-05	0.448641	8.806E-15
1.414E-05	0.497706	9.607E-15
1.454E-05	0.549661	1.057E-14
1.499E-05	0.603630	1.174E-14
1.55 -05	0.658570	1.321E-14
1.614E-05	0.713312	1.509E-14
1.690E-05	0.767509	1.761E-14
1.784E-05	0.819571	2.113E-14
1.908E-05	0.867960	2.641E-14
1.970E-05	0.885749	2.935E-14
2.043E-05	0.902659	3.301E-14
2.128E-05	0.918722	3.773E-14
2.233E-05	0.933998	4.402E-14
2.364E-05	0.948062	5.282E-14
2.443E-05	0.954678	5.869E-14
2.536E-05	0.961089	6.603E-14
2.646E-05	0.967199	7.546E-14
2.780E-05	0.972950	8.803E-14
2.947E-05	0.978456	1.056E-13
3.168E-05	0.983725	1.320E-13
3.479E-05	0.988609	1.761E-13
3.973E-05	0.993210	2.641E-13
4.993E-05	0.997447	5.282E-13
5.170E-05	0.997775	5.869E-13
5.376E-05	0.998112	6.602E-13
5.619E-05	0.998456	7.545E-13
5.914E-05	0.998807	8.803E-13
6.288E-05	0.999142	1.056E-12
6.767E-05	0.999516	1.320E-12
7.448E-05	0.999863	1.761E-12
8.521E-05	1.000189	2.641E-12
1.073E-0	1.000452	5.282E-12
1.112E-	1.000471	5.868E-12
1.156E-04	1.000487	6.602E-12
1.209E-04	1.000500	7.545E-12

1.272E-04	1.000510	8.803E-12
1.352E-04	1.000514	1.056E-11
1.457E-04	1.000511	1.320E-11
1.603E-04	1.000499	1.760E-11
1.835E-04	1.000469	2.641E-11
2.312E-04	1.000404	5.281E-11
2.445E-04	1.000393	5.868E-11
2.490E-04	1.000392	6.602E-11
2.604E-04	1.000369	7.545E-11
2.741E-04	1.000354	8.802E-11
2.913E-04	1.000336	1.056E-10
3.138E-04	1.000316	1.320E-10
3.453E-04	1.000290	1.760E-10
3.955E-04	1.000257	2.641E-10
4.961E-04	1.000207	5.281E-10
5.159E-04	1.000200	5.868E-10
5.365E-04	1.000193	6.602E-10
5.610E-04	1.000185	7.545E-10
5.905E-04	1.000176	8.803E-10
6.275E-04	1.000166	1.056E-09
6.760E-04	1.000154	1.320E-09
7.440E-04	1.000141	1.761E-09
8.517E-04	1.000123	2.641E-09
1.073E-03	1.000098	5.283E-09
1.112E-03	1.000095	5.870E-09
1.156E-03	1.000091	6.604E-09
1.209E-03	1.000087	7.548E-09
1.272E-03	1.000083	8.807E-09
1.352E-03	1.000078	1.057E-08
1.457E-03	1.000072	1.321E-08
1.604E-03	1.000066	1.762E-08
1.836E-03	1.000058	2.645E-08
2.315E-03	1.000046	5.300E-08

ZINC NITRATE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.971E-05	0.447305	8.806E-14
3.047E-05	0.496232	9.606E-14
3.133E-05	0.548046	1.057E-13
3.240E-05	0.601874	1.174E-13
3.344E-05	0.656676	1.321E-13
3.473E-05	0.711293	1.509E-13
3.640E-05	0.765380	1.761E-13
3.944E-05	0.817359	2.113E-13
4.111E-05	0.865707	2.641E-13
4.245E-05	0.883496	2.935E-13
4.401E-05	0.900417	3.301E-13
4.585E-05	0.916505	3.773E-13
4.810E-05	0.931821	4.402E-13
5.092E-05	0.945947	5.282E-13
5.264E-05	0.952604	5.869E-13
5.464E-05	0.959064	6.602E-13
5.701E-05	0.965232	7.545E-13
5.989E-05	0.971053	8.803E-13
6.350E-05	0.976644	1.056E-12
6.825E-05	0.982018	1.320E-12
7.495E-05	0.987035	1.761E-12
8.559E-05	0.991815	2.641E-12
1.076E-04	0.996324	5.282E-12
1.114E-04	0.996689	5.868E-12
1.153E-04	0.997056	6.602E-12
1.213E-04	0.997455	7.545E-12
1.274E-04	0.997855	8.803E-12
1.354E-04	0.998254	1.056E-11
1.454E-04	0.998682	1.320E-11
1.614E-04	0.999104	1.760E-11
1.836E-04	0.999524	2.641E-11
2.312E-04	0.999924	5.281E-11
2.495E-04	0.999961	5.868E-11
2.691E-04	0.999997	6.602E-11
2.904E-04	1.000031	7.545E-11

3.741E-04	1.000064	8.892E-11
4.213E-04	1.000085	1.056E-10
4.685E-04	1.000122	1.320E-10
5.454E-04	1.000145	1.760E-10
6.058E-04	1.000250	2.641E-10
6.788E-04	1.000156	3.521E-10
7.154E-04	1.000187	4.401E-10
7.898E-04	1.000154	5.282E-10
8.519E-04	1.000191	7.042E-10
9.405E-04	1.000147	8.802E-10
6.275E-04	1.000142	1.056E-09
6.750E-04	1.000135	1.320E-09
7.440E-04	1.000125	1.760E-09
8.517E-04	1.000113	2.641E-09
1.073E-03	1.000078	5.282E-09
1.111E-03	1.000089	6.603E-09
1.150E-03	1.000087	8.802E-09
1.209E-03	1.000094	1.056E-08
1.272E-03	1.000080	1.320E-08
1.352E-03	1.000076	1.760E-08
1.456E-03	1.000079	2.641E-08
1.603E-03	1.000064	5.282E-08
1.835E-03	1.000057	6.603E-08
2.312E-03	1.000045	8.802E-08
2.390E-03	1.000044	1.056E-07
2.491E-03	1.000042	1.320E-07
2.634E-03	1.000040	1.760E-07
2.741E-03	1.000033	2.641E-07
2.913E-03	1.000036	5.282E-07
3.134E-03	1.000034	6.603E-07
3.455E-03	1.000030	8.802E-07
3.959E-03	1.000027	1.056E-06
4.357E-03	1.000021	1.320E-06

ZINC NITRATE

([illegible] = 1.[illegible]E-12 [illegible] TEMPERATURE = 20C)

[illegible]	[illegible]	RATE CONSTANT(CM)
5.4[illegible]E-[illegible]	[illegible]	1.606E-13
[illegible]	[illegible]	1.606E-13
[illegible]	[illegible]	1.957E-12
[illegible]	[illegible]	1.174E-12
[illegible]	[illegible]	1.321E-12
[illegible]	[illegible]	1.509E-12
[illegible]	[illegible]	1.761E-12
[illegible]	[illegible]	2.113E-12
[illegible]	[illegible]	2.641E-12
[illegible]	[illegible]	2.934E-12
[illegible]	[illegible]	3.301E-12
[illegible]	[illegible]	3.773E-12
[illegible]	[illegible]	4.402E-12
[illegible]	[illegible]	5.282E-12
[illegible]	[illegible]	5.869E-12
[illegible]	[illegible]	6.602E-12
[illegible]	[illegible]	7.545E-12
[illegible]	[illegible]	8.803E-12
[illegible]	[illegible]	1.056E-11
[illegible]	[illegible]	1.320E-11
[illegible]	[illegible]	1.761E-11
[illegible]	[illegible]	2.641E-11
[illegible]	[illegible]	5.281E-11
[illegible]	[illegible]	5.868E-11
[illegible]	[illegible]	6.602E-11
[illegible]	[illegible]	7.545E-11
[illegible]	[illegible]	8.802E-11
[illegible]	[illegible]	1.056E-10
[illegible]	[illegible]	1.320E-10
[illegible]	[illegible]	1.760E-10
[illegible]	[illegible]	2.641E-10
4.[illegible]	[illegible]	5.281E-10
5.[illegible]	[illegible]	5.868E-10
5.[illegible]	[illegible]	6.602E-10
5.[illegible]	[illegible]	7.545E-10

NOT REPRODUCIBLE

5.903E-04	0.999857	6.802E-10
6.276E-04	0.999900	1.056E-09
6.760E-04	0.999941	1.320E-09
7.441E-04	0.999981	1.760E-09
8.517E-04	1.000016	2.641E-09
1.079E-03	1.000045	5.281E-09
1.111E-03	1.000047	5.868E-09
1.139E-03	1.000049	6.601E-09
1.209E-03	1.000050	7.545E-09
1.272E-03	1.000051	8.802E-09
1.352E-03	1.000051	1.056E-08
1.456E-03	1.000051	1.320E-08
1.503E-03	1.000050	1.760E-08
1.835E-03	1.000047	2.641E-08
2.312E-03	1.000040	5.281E-08
2.394E-03	1.000039	5.868E-08
2.490E-03	1.000038	6.602E-08
2.604E-03	1.000037	7.545E-08
2.741E-03	1.000035	8.802E-08
2.918E-03	1.000034	1.056E-07
3.138E-03	1.000032	1.320E-07
3.453E-03	1.000029	1.761E-07
3.953E-03	1.000026	2.641E-07
4.881E-03	1.000021	5.283E-07
5.159E-03	1.000020	5.870E-07
5.380E-03	1.000019	6.604E-07
5.610E-03	1.000018	7.548E-07
5.906E-03	1.000018	8.507E-07
6.277E-03	1.000017	1.057E-06
6.762E-03	1.000015	1.321E-06
7.443E-03	1.000014	1.762E-06
8.522E-03	1.000012	2.645E-06
1.074E-02	1.000010	5.300E-06

ZINC NITRATE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.379E-04	0.446359	8.805E-12
1.414E-04	0.495234	9.605E-12
1.454E-04	0.546951	1.057E-11
1.499E-04	0.600683	1.174E-11
1.552E-04	0.655392	1.321E-11
1.614E-04	0.709923	1.509E-11
1.690E-04	0.763936	1.761E-11
1.784E-04	0.815860	2.113E-11
1.908E-04	0.864179	2.641E-11
1.970E-04	0.881968	2.934E-11
2.043E-04	0.898897	3.301E-11
2.128E-04	0.915001	3.773E-11
2.233E-04	0.930345	4.401E-11
2.364E-04	0.944512	5.282E-11
2.443E-04	0.951197	5.868E-11
2.536E-04	0.957690	6.602E-11
2.646E-04	0.963838	7.545E-11
2.780E-04	0.969766	8.803E-11
2.947E-04	0.975414	1.056E-10
3.168E-04	0.980859	1.320E-10
3.479E-04	0.985967	1.760E-10
3.973E-04	0.990862	2.641E-10
4.993E-04	0.995552	5.281E-10
5.170E-04	0.995952	5.868E-10
5.376E-04	0.996356	6.602E-10
5.619E-04	0.996775	7.545E-10
5.914E-04	0.997203	8.802E-10
6.283E-04	0.997655	1.056E-09
6.757E-04	0.998115	1.320E-09
7.446E-04	0.998589	1.760E-09
8.521E-04	0.999073	2.641E-09
1.073E-03	0.999566	5.281E-09
1.112E-03	0.999615	5.868E-09
1.156E-03	0.999664	6.601E-09
1.204E-03	0.999713	7.545E-09

1.272E-03	0.999762	8.802E-09
1.352E-03	0.999810	1.056E-08
1.456E-03	0.999856	1.320E-08
1.603E-03	0.999905	1.760E-08
1.835E-03	0.999950	2.641E-08
2.312E-03	0.999992	5.281E-08
2.394E-03	0.999996	5.366E-08
2.490E-03	0.999999	6.601E-07
2.604E-03	1.000003	7.544E-08
2.741E-03	1.000006	8.802E-08
2.913E-03	1.000009	1.056E-07
3.133E-03	1.000012	1.320E-07
3.453E-03	1.000014	1.760E-07
3.953E-03	1.000016	2.641E-07
4.731E-03	1.000016	5.281E-07
5.159E-03	1.000016	5.363E-07
5.363E-03	1.000015	6.601E-07
5.609E-03	1.000015	7.545E-07
5.905E-03	1.000015	8.802E-07
6.275E-03	1.000014	1.056E-06
6.750E-03	1.000013	1.320E-06
7.440E-03	1.000013	1.761E-06
8.517E-03	1.000011	2.641E-06
1.073E-02	1.000009	5.283E-06
1.112E-02	1.000009	5.870E-06
1.156E-02	1.000009	6.604E-06
1.207E-02	1.000008	7.548E-06
1.272E-02	1.000008	8.807E-06
1.352E-02	1.000008	1.057E-05
1.457E-02	1.000007	1.321E-05
1.603E-02	1.000006	1.762E-05
1.836E-02	1.000006	2.645E-05
2.314E-02	1.000005	5.300E-05

ZINC NITRATE

CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C

RADIUS(CM)	SATURATION RATIO	WATER SADED(GM)
2.971E-04	0.446266	3.805E-11
3.047E-04	0.495067	9.605E-11
3.138E-04	0.546790	1.057E-10
3.230E-04	0.600503	1.174E-10
3.344E-04	0.655203	1.321E-10
3.478E-04	0.709722	1.509E-10
3.640E-04	0.763724	1.761E-10
3.843E-04	0.815639	2.113E-10
4.111E-04	0.863955	2.641E-10
4.245E-04	0.881744	2.934E-10
4.401E-04	0.898673	3.301E-10
4.585E-04	0.914730	3.773E-10
4.810E-04	0.930126	4.401E-10
5.092E-04	0.944302	5.282E-10
5.264E-04	0.950991	5.868E-10
5.464E-04	0.957486	6.602E-10
5.701E-04	0.963701	7.545E-10
5.988E-04	0.969577	8.802E-10
6.350E-04	0.975234	1.056E-09
6.825E-04	0.980689	1.320E-09
7.496E-04	0.985310	1.760E-09
8.559E-04	0.990729	2.641E-09
1.076E-03	0.995449	5.281E-09
1.114E-03	0.995843	5.868E-09
1.153E-03	0.996252	6.601E-09
1.211E-03	0.996675	7.545E-09
1.274E-03	0.997113	8.802E-09
1.354E-03	0.997565	1.056E-08
1.459E-03	0.998032	1.320E-08
1.604E-03	0.998513	1.760E-08
1.836E-03	0.999007	2.641E-08
2.312E-03	0.999513	5.281E-08
2.395E-03	0.999564	5.868E-08
2.491E-03	0.999615	6.601E-08
2.604E-03	0.999668	7.544E-08

2.741E-03	0.999717	8.802E-08
2.913E-03	0.999768	1.056E-07
3.138E-03	0.999819	1.320E-07
3.454E-03	0.999869	1.760E-07
3.953E-03	0.999919	2.640E-07
4.781E-03	0.999967	5.281E-07
5.159E-03	0.999972	5.868E-07
5.655E-03	0.999977	6.601E-07
6.309E-03	0.999981	7.544E-07
7.205E-03	0.999986	8.802E-07
8.275E-03	0.999990	1.056E-06
8.760E-03	0.999994	1.320E-06
9.440E-03	0.999998	1.760E-06
8.517E-03	1.000002	2.640E-06
1.073E-02	1.000004	5.281E-06
1.111E-02	1.000005	5.868E-06
1.156E-02	1.000005	6.601E-06
1.208E-02	1.000005	7.544E-06
1.272E-02	1.000005	8.802E-06
1.352E-02	1.000005	1.056E-05
1.456E-02	1.000005	1.320E-05
1.603E-02	1.000005	1.760E-05
1.835E-02	1.000005	2.641E-05
2.312E-02	1.000004	5.283E-05
2.495E-02	1.000004	5.870E-05
2.491E-02	1.000004	6.604E-05
2.504E-02	1.000004	7.548E-05
2.741E-02	1.000004	8.806E-05
2.913E-02	1.000003	1.057E-04
3.138E-02	1.000003	1.321E-04
3.455E-02	1.000003	1.762E-04
3.953E-02	1.000003	2.645E-04
4.786E-02	1.000002	5.300E-04

ZINC NITRATE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
6.400E-04	0.446205	8.804E-10
6.564E-04	0.495019	9.604E-10
6.743E-04	0.546715	1.056E-09
6.960E-04	0.600426	1.174E-09
7.204E-04	0.655116	1.321E-09
7.432E-04	0.709629	1.509E-09
7.342E-04	0.763626	1.761E-09
8.280E-04	0.815537	2.113E-09
8.857E-04	0.863850	2.641E-09
9.145E-04	0.901639	3.521E-09
9.480E-04	0.928570	4.934E-09
9.873E-04	0.944677	7.401E-09
1.036E-03	0.950027	1.232E-08
1.097E-03	0.944204	2.641E-08
1.134E-03	0.930395	3.521E-08
1.177E-03	0.957394	4.401E-08
1.223E-03	0.963610	5.281E-08
1.290E-03	0.969489	6.601E-08
1.363E-03	0.975150	8.802E-08
1.470E-03	0.980610	1.320E-07
1.615E-03	0.985737	1.760E-07
1.[illegible]E-03	0.990864	2.641E-07
2.316E-03	0.995357	3.521E-07
2.[illegible]E-03	0.995733	4.401E-07
2.[illegible]E-03	0.996203	5.281E-07
2.508E-03	0.996628	6.601E-07
2.745E-03	0.997059	8.802E-07
2.916E-03	0.997523	1.320E-06
3.141E-03	0.997993	1.760E-06
3.455E-03	0.998479	2.640E-06
3.955E-03	0.998876	3.521E-06
4.932E-03	0.999488	5.281E-06
5.140E-03	0.999540	6.601E-06
5.350E-03	0.999592	7.544E-06
5.610E-03	0.999644	

NOT REPRODUCIBLE

5.9[illegible]E-03	0.999656	8.802E-07
6.276E-03	0.[illegible]74[illegible]	1.056E-[illegible]
6.760E-03	0.999801	1.320E-[illegible]
7.440E-03	0.999853	1.760E-06
8.517E-03	0.999905	2.640E-06
1.037E-02	0.999957	5.281E-06
1.111E-02	0.999961	5.545E-06
1.185E-02	0.999966	6.601E-06
1.273E-02	0.999971	7.561E-06
1.327E-02	0.999976	8.801E-06
1.[illegible]E-02	0.999981	1.056E-05
1.[illegible]E-02	0.999986	1.320E-05
1.[illegible]E-02	0.999991	1.761E-05
1.[illegible]E-02	0.999996	2.641E-05
2.[illegible]E-02	1.000000	5.281E-05
2.[illegible]E-02	1.000000	5.545E-05
2.[illegible]E-02	1.000000	6.601E-05
2.314E-02	1.000000	7.544E-05
2.[illegible]E-02	1.000001	8.802E-05
2.[illegible]E-02	1.000001	1.056E-04
3.[illegible]E-02	1.000001	1.320E-04
3.[illegible]E-02	1.000001	1.760E-04
3.[illegible]E-02	1.000002	2.641E-04
4.[illegible]E-02	1.000002	5.282E-04
5.[illegible]E-02	1.000002	5.670E-04
5.[illegible]E-02	1.000002	6.604E-04
5.[illegible]E-02	1.000002	7.943E-04
5.[illegible]E-02	1.000001	[illegible].[illegible]E-04
6.[illegible]E-02	1.000001	1.057E-03
6.[illegible]E-02	1.000001	1.321E-03
7.[illegible]E-02	1.000001	1.762E-03
8.[illegible]E-02	1.000001	2.645E-03
1.[illegible]E-01	1.[illegible]E-01	[illegible].[illegible]E-03

ZINC NITRATE

(CRYSTAL MASS = 1.00E-03 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER RATIO(GM)
1.370E-03	0.445176	8.304E-09
1.414E-03	0.494987	9.604E-09
1.459E-03	0.546081	1.056E-08
1.499E-03	0.600389	1.174E-08
1.552E-03	0.655075	1.320E-08
1.614E-03	0.709595	1.507E-08
1.699E-03	0.763580	1.761E-08
1.784E-03	0.815489	2.113E-08
1.908E-03	0.863802	2.664E-08
1.970E-03	0.881591	2.934E-08
2.042E-03	0.898522	3.301E-08
2.128E-03	0.914663	3.772E-08
2.232E-03	0.929960	4.401E-08
2.363E-03	0.944155	5.281E-08
2.443E-03	0.950850	5.858E-08
2.533E-03	0.957351	6.601E-08
2.654E-03	0.963563	7.549E-08
2.730E-03	0.966448	8.802E-08
2.947E-03	0.975111	1.056E-07
3.133E-03	0.980573	1.320E-07
3.474E-03	0.985703	1.760E-07
3.773E-03	0.990634	2.641E-07
4.773E-03	0.995373	5.281E-07
5.173E-03	0.995739	6.068E-07
5.370E-03	0.996141	6.601E-07
5.913E-03	0.998607	7.544E-07
5.413E-03	0.997048	8.802E-07
6.273E-03	0.999504	1.056E-06
6.770E-03	0.999575	1.320E-06
7.494E-03	0.999491	1.760E-06
8.321E-03	0.999952	2.640E-06
1.077E-02	0.999977	5.281E-06
1.112E-02	0.999529	5.868E-06
1.155E-02	0.999582	6.601E-06
1.211E-02	0.999634	7.544E-06

NOT REPRODUCIBLE

1.272E-02	0.999697	3.301E-05
1.352E-02	0.999739	1.056E-04
1.456E-02	0.999772	1.320E-04
1.603E-02	0.999845	1.760E-04
1.835E-02	0.999896	2.640E-04
2.112E-02	0.999951	5.281E-04
2.334E-02	0.999956	5.867E-04
2.490E-02	0.999961	6.601E-04
2.594E-02	0.999966	7.544E-04
2.701E-02	0.999971	8.801E-04
2.913E-02	0.999977	1.056E-03
3.138E-02	0.999982	1.320E-03
3.453E-02	0.999987	1.760E-03
3.993E-02	0.999992	2.640E-03
4.930E-02	0.999997	5.281E-03
5.166E-02	0.999997	5.869E-03
5.365E-02	0.999998	6.601E-03
5.609E-02	0.999998	7.544E-03
5.935E-02	0.999999	8.801E-03
6.275E-02	0.999999	1.056E-02
6.750E-02	0.999999	1.320E-02
7.440E-02	1.000000	1.760E-02
8.517E-02	1.000000	2.641E-02
1.073E-01	1.000000	5.282E-02
1.111E-01	1.000000	5.870E-02
1.159E-01	1.000000	6.604E-02
1.220E-01	1.000000	7.547E-02
1.272E-01	1.000001	8.806E-02
1.352E-01	1.000001	1.057E-01
1.457E-01	1.000001	1.321E-01
1.603E-01	1.000001	1.762E-01
1.835E-01	1.000000	2.645E-01
2.314E-01	1.000000	5.299E-01

ZINC NITRATE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.971E-03	0.446153	3.803E-08
3.047E-03	0.494973	9.604E-08
3.132E-03	0.546555	1.056E-07
3.230E-03	0.600371	1.174E-07
3.344E-03	0.655056	1.320E-07
3.478E-03	0.709565	1.509E-07
3.640E-03	0.763559	1.760E-07
3.843E-03	0.815467	2.113E-07
4.111E-03	0.863780	2.641E-07
4.245E-03	0.881569	2.934E-07
4.400E-03	0.898499	3.301E-07
4.585E-03	0.914607	3.772E-07
4.810E-03	0.929958	4.401E-07
5.092E-03	0.944137	5.281E-07
5.254E-03	0.950829	5.868E-07
5.464E-03	0.957331	6.601E-07
5.700E-03	0.963549	7.544E-07
5.984E-03	0.969429	8.802E-07
6.350E-03	0.975093	1.056E-06
6.825E-03	0.980556	1.320E-06
7.494E-03	0.985687	1.760E-06
8.550E-03	0.990620	2.640E-06
1.076E-02	0.995342	5.281E-06
1.114E-02	0.995759	5.868E-06
1.158E-02	0.996170	6.601E-06
1.211E-02	0.996597	7.544E-06
1.274E-02	0.997038	8.801E-06
1.354E-02	0.997495	1.056E-05
1.458E-02	0.997957	1.320E-05
1.594E-02	0.998454	1.760E-05
1.836E-02	0.998955	2.640E-05
2.312E-02	0.999472	5.281E-05
2.395E-02	0.999524	5.867E-05
2.491E-02	0.999577	6.601E-05
2.604E-02	0.999629	7.544E-05

[NOT REPRODUCIBLE

ZINC NITRATE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
6.400E-03	0.446156	8.803E-07
6.564E-03	0.494965	9.603E-07
6.749E-03	0.546657	1.056E-06
6.959E-03	0.600363	1.174E-06
7.204E-03	0.655048	1.320E-06
7.492E-03	0.709556	1.509E-06
7.842E-03	0.763549	1.760E-06
8.2[illegible]E-03	0.815457	2.112E-06
8.[illegible]E-03	0.863769	2.641E-06
9.1[illegible]E-03	0.881558	2.934E-06
9.[illegible]E-03	0.898489	3.301E-06
9.87[illegible]E-03	0.914597	3.772E-06
1.03[illegible]E-02	0.929548	4.401E-06
1.09[illegible]E-02	0.944127	5.281E-06
1.134E-02	0.950820	5.868E-06
1.177E-02	0.957321	6.601E-06
1.226E-02	0.963539	7.544E-06
1.290E-02	0.969420	8.801E-06
1.363E-02	0.975084	1.056E-05
1.470E-02	0.980548	1.320E-05
1.615E-02	0.985680	1.760E-05
1.844E-02	0.990614	2.640E-05
2.318E-02	0.995357	5.281E-05
2.460E-02	0.996754	5.867E-05
2.645E-02	0.998165	6.601E-05
2.891E-02	0.998592	7.544E-05
3.224E-02	0.999034	8.801E-05
3.716E-02	0.999491	1.056E-04
4.141E-02	0.999663	1.320E-04
4.458E-02	0.999450	1.760E-04
4.955E-02	0.999852	2.640E-04
5.332E-02	0.999469	5.281E-04
5.460E-02	0.999522	5.867E-04
5.588E-02	0.999574	6.601E-04
5.510E-02	0.999627	7.544E-04

5.9[illegible]E-02	0.999640	8.801E-04
6.276E-02	0.999744	1.056E-03
6.761E-02	0.999797	1.320E-03
7.442E-02	0.999840	1.760E-03
8.521E-02	0.999893	2.640E-03
1.074E-01	0.999947	5.280E-03
1.111E-01	0.999952	5.867E-03
1.156E-01	0.999958	6.601E-03
1.208E-01	0.999963	7.544E-03
1.272E-01	0.999968	8.801E-03
1.352E-01	0.999974	1.056E-02
1.456E-01	0.999979	1.320E-02
1.503E-01	0.999984	1.760E-02
1.835E-01	0.999990	2.640E-02
2.312E-01	0.999995	5.281E-02
2.394E-01	0.999996	5.867E-02
2.490E-01	0.999996	6.601E-02
2.604E-01	0.999997	7.544E-02
2.741E-01	0.999997	8.801E-02
2.913E-01	0.999998	1.056E-01
3.137E-01	0.999998	1.320E-01
3.458E-01	0.999999	1.760E-01
3.953E-01	0.999999	2.641E-01
4.981E-01	1.000000	5.282E-01
5.159E-01	1.000000	5.869E-01
5.366E-01	1.000000	6.603E-01
5.610E-01	1.000000	7.547E-01
5.906E-01	1.000000	8.806E-01
6.276E-01	1.000000	1.057E 00
6.761E-01	1.000000	1.321E 00
7.442E-01	1.000000	1.762E 00
8.521E-01	1.000000	2.645E 00
1.074E 00	1.000000	5.299E 00

ZINC NITRATE

PERCENTAGE	MOLALITY	DENSITY
0.50	5.280	1.5944
0.45	4.320	1.5134
0.40	3.520	1.4378
0.35	2.643	1.3678
0.30	2.263	1.3029
0.25	1.760	1.2427
0.20	1.320	1.1865
0.18	1.159	1.1652
0.16	1.006	1.1445
0.14	0.860	1.1244
0.12	0.720	1.1048
0.10	0.587	1.0859
0.08	0.459	1.0675
0.06	0.337	1.0496
0.04	0.220	1.0322
0.02	0.108	1.0154
0.00	0.000	1.0000

POTASSIUM BROMIDE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
119.02	2.750	2.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.3915E-05	2.0552E-06
1.00E-15	6.4586E-05	4.4279E-06
1.00E-14	2.9978E-04	9.5395E-06
1.00E-13	1.3915E-03	2.0552E-05
1.00E-12	6.4586E-03	4.4279E-05
1.00E-11	2.9978E-02	9.5395E-05
1.00E-10	1.3915E-01	2.0552E-04
1.00E-09	6.4586E-01	4.4279E-04
1.00E-08	2.9978E 00	9.5395E-04
1.00E-07	1.3915E 01	2.0552E-03
1.00E-06	6.4586E 01	4.4279E-03

NOT REPRODUCIBLE

POTASSIUM BROMIDE
(ONE-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
5.5000	0.81570	2.28039
5.0000	0.83289	2.22744
4.5000	0.85033	2.17126
4.0000	0.86778	2.11438
3.5000	0.88498	2.06138
3.0000	0.90192	2.01206.
2.5000	0.91873	1.96406
2.0000	0.93538	1.91732
1.8000	0.94195	1.90025
1.6000	0.94851	1.88334
1.4000	0.95494	1.87079
1.2000	0.96142	1.85529
1.0000	0.96735	1.84397
0.9000	0.97105	1.83888
0.8000	0.97425	1.83381
0.7000	0.97745	1.82877
0.6000	0.98035	1.82579
0.5000	0.98285	1.82280
0.4000	0.98503	1.82388
0.3000	0.98721	1.82338
0.2000	0.99342	1.83406
0.1500	0.99566	1.85911
0.1000	0.99737	1.87324
0.0800	0.99822	1.88736
0.0700	0.99861	1.89147
0.0600	0.99895	1.91057
0.0500	0.99925	1.92957
0.0400	0.99953	1.94375
0.0300	0.99974	1.96733
0.0200	0.99987	1.97137
0.0100	0.99994	1.99534
0.0050	0.99998	1.99735
0.0025	0.99999	1.99876
0.0010	0.99999	1.99912
0.0005	0.99999	1.99955

0.0050	[illegible]	[illegible]
0.0040	0.99938	[illegible]
0.0030	0.99940	[illegible]
0.0020	0.99943	[illegible]
0.0019	0.99943	[illegible]
0.0018	0.99994	[illegible]
0.0017	0.99994	[illegible]
0.0016	0.99994	1.00772
0.0015	0.99995	1.00771
0.0014	0.99995	1.00770
0.0013	0.99995	1.00802
0.0012	0.99995	1.00804
0.0011	0.99996	[illegible]
0.0010	0.99996	1.00851
0.0009	0.99997	[illegible]
0.0008	0.99997	[illegible]
0.0007	0.99997	[illegible]
0.0006	0.99998	1.00903
0.0005	0.99998	1.00930
0.0004	0.99999	1.00968
0.0003	0.99999	1.00902
0.0002	0.99999	1.00972
0.0001	1.00000	2.00000

NOT REPRODUCIBLE

3.414E-05	1.002947	1.681E-13
3.678E-05	1.002759	2.101E-13
4.048E-05	1.002529	2.801E-13
4.633E-05	1.002231	4.202E-13
5.838E-05	1.001792	8.404E-13
6.046E-05	1.001732	9.338E-13
6.268E-05	1.001663	1.051E-12
6.575E-05	1.001598	1.201E-12
6.921E-05	1.001520	1.401E-12
7.355E-05	1.001433	1.681E-12
7.923E-05	1.001332	2.101E-12
8.720E-05	1.001213	2.801E-12
9.982E-05	1.001061	4.202E-12
1.258E-04	1.000844	8.404E-12
1.303E-04	1.000816	9.338E-12
1.355E-04	1.000784	1.051E-11
1.416E-04	1.000750	1.201E-11
1.491E-04	1.000713	1.401E-11
1.585E-04	1.000671	1.681E-11
1.707E-04	1.000623	2.101E-11
1.879E-04	1.000567	2.802E-11
2.151E-04	1.000495	4.203E-11
2.710E-04	1.000393	8.407E-11
2.807E-04	1.000380	9.342E-11
2.919E-04	1.000365	1.051E-10
3.052E-04	1.000349	1.201E-10
3.213E-04	1.000332	1.402E-10
3.415E-04	1.000312	1.682E-10
3.678E-04	1.000290	2.103E-10
4.049E-04	1.000263	2.805E-10
4.636E-04	1.000230	4.210E-10
5.844E-04	1.000192	8.434E-10

POTASSIUM BROMIDE

(CRYSTAL MASS = 1.000E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAIN(GM)
7.533E-06	0.824037	1.520E-15
7.798E-06	0.842222	1.641E-15
8.043E-06	0.859722	1.768E-15
8.328E-06	0.877209	1.912E-15
8.666E-06	0.894365	2.082E-15
9.077E-06	0.911255	2.302E-15
9.514E-06	0.927905	2.562E-15
1.027E-05	0.944234	3.203E-15
1.052E-05	0.950706	3.603E-15
1.101E-05	0.957074	4.253E-15
1.144E-05	0.963293	5.004E-15
1.206E-05	0.969466	6.004E-15
1.279E-05	0.975592	7.405E-15
1.321E-05	0.978584	8.339E-15
1.372E-05	0.981564	9.339E-15
1.432E-05	0.984514	1.051E-14
1.506E-05	0.987416	1.201E-14
1.593E-05	0.990276	1.401E-14
1.710E-05	0.993052	1.681E-14
1.868E-05	0.995737	2.101E-14
2.150E-05	0.998293	2.802E-14
2.714E-05	1.000565	4.202E-14
2.811E-05	1.000744	8.405E-14
2.923E-05	1.000918	9.338E-14
3.055E-05	1.001083	1.051E-13
3.216E-05	1.001236	1.201E-13
3.417E-05	1.001377	1.401E-13
3.680E-05	1.001493	1.681E-13
4.050E-05	1.001573	2.101E-13
4.635E-05	1.001589	2.801E-13
5.838E-05	1.001469	4.202E-13
6.047E-05	1.001441	8.404E-13
6.289E-05	1.001409	9.338E-13
6.575E-05	1.001371	1.051E-12
6.922E-05	1.001325	1.201E-12

1.455E-04	1.000170	1.541E-11
1.628E-04	1.000142	2.101E-11
1.820E-04	1.000115	2.901E-11
2.032E-04	1.000097	4.031E-11
2.258E-04	1.000082	5.626E-11
2.503E-04	1.000069	7.834E-11
2.755E-04	1.000059	1.091E-10
3.016E-04	1.000050	1.521E-10
3.271E-04	1.000044	2.121E-10
3.535E-04	1.000038	2.961E-10
3.795E-04	1.000033	4.131E-10
4.048E-04	1.000029	5.761E-10
4.297E-04	1.000026	8.041E-10
4.539E-04	1.000023	1.121E-09
4.771E-04	1.000021	1.561E-09
4.996E-04	1.000019	2.181E-09
5.210E-04	1.000017	3.041E-09
5.415E-04	1.000016	4.241E-09
5.610E-04	1.000014	5.911E-09
5.797E-04	1.000013	8.241E-09
5.975E-04	1.000012	1.149E-08
6.145E-04	1.000011	1.601E-08
6.308E-04	1.000010	2.232E-08
6.464E-04	1.000009	3.111E-08
6.614E-04	1.000008	4.336E-08
6.759E-04	1.000008	6.043E-08
6.899E-04	1.000007	8.423E-08
7.035E-04	1.000006	1.174E-07
7.167E-04	1.000006	1.636E-07
7.296E-04	1.000005	2.280E-07
7.423E-04	1.000005	3.178E-07
7.548E-04	1.000004	4.429E-07
7.672E-04	1.000004	6.173E-07
7.795E-04	1.000004	8.603E-07
7.918E-04	1.000003	1.199E-06
8.041E-04	1.000003	1.670E-06
8.165E-04	1.000003	2.326E-06
8.290E-04	1.000002	3.240E-06
8.417E-04	1.000002	4.513E-06
8.546E-04	1.000002	6.285E-06
8.678E-04	1.000002	8.753E-06
8.813E-04	1.000001	1.218E-05
8.952E-04	1.000001	1.695E-05
9.095E-04	1.000001	2.358E-05
9.243E-04	1.000001	3.278E-05
9.396E-04	1.000001	4.554E-05
9.555E-04	1.000000	6.321E-05
9.720E-04	1.000000	8.767E-05
9.892E-04	1.000000	1.214E-04
1.007E-03	1.000000	1.679E-04
1.025E-03	1.000000	2.318E-04
1.044E-03	1.000000	3.195E-04
1.063E-03	1.000000	4.398E-04
1.083E-03	1.000000	6.043E-04
1.103E-03	1.000000	8.289E-04
1.124E-03	1.000000	1.134E-03
1.146E-03	1.000000	1.548E-03
1.168E-03	1.000000	2.109E-03
1.191E-03	1.000000	2.865E-03
1.215E-03	1.000000	3.878E-03
1.239E-03	1.000000	5.232E-03
1.264E-03	1.000000	7.027E-03
1.290E-03	1.000000	9.385E-03
1.316E-03	1.000000	1.245E-02
1.343E-03	1.000000	1.643E-02
1.371E-03	1.000000	2.154E-02
1.399E-03	1.000000	2.805E-02
1.428E-03	1.000000	3.630E-02
1.458E-03	1.000000	4.668E-02
1.488E-03	1.000000	5.966E-02
1.519E-03	1.000000	7.577E-02
1.551E-03	1.000000	9.559E-02
1.584E-03	1.000000	1.198E-01
1.617E-03	1.000000	1.491E-01
1.651E-03	1.000000	1.844E-01
1.686E-03	1.000000	2.268E-01
1.722E-03	1.000000	2.774E-01
1.758E-03	1.000000	3.374E-01
1.795E-03	1.000000	4.080E-01
1.833E-03	1.000000	4.904E-01
1.872E-03	1.000000	5.858E-01
1.911E-03	1.000000	6.954E-01
1.951E-03	1.000000	8.203E-01
1.992E-03	1.000000	9.615E-01
2.033E-03	1.000000	1.120E+00
2.075E-03	1.000000	1.295E+00
2.118E-03	1.000000	1.489E+00
2.162E-03	1.000000	1.703E+00
2.206E-03	1.000000	1.938E+00
2.251E-03	1.000000	2.195E+00
2.297E-03	1.000000	2.475E+00
2.344E-03	1.000000	2.779E+00
2.391E-03	1.000000	3.107E+00
2.439E-03	1.000000	3.461E+00
2.488E-03	1.000000	3.841E+00
2.538E-03	1.000000	4.248E+00
2.588E-03	1.000000	4.683E+00
2.639E-03	1.000000	5.146E+00
2.691E-03	1.000000	5.638E+00
2.744E-03	1.000000	6.159E+00
2.797E-03	1.000000	6.710E+00
2.851E-03	1.000000	7.291E+00
2.906E-03	1.000000	7.902E+00
2.962E-03	1.000000	8.543E+00
3.018E-03	1.000000	9.214E+00
3.075E-03	1.000000	9.916E+00
3.133E-03	1.000000	1.065E+01
3.192E-03	1.000000	1.141E+01
3.251E-03	1.000000	1.220E+01
3.312E-03	1.000000	1.302E+01
3.373E-03	1.000000	1.387E+01
3.435E-03	1.000000	1.475E+01
3.498E-03	1.000000	1.566E+01
3.562E-03	1.000000	1.660E+01
3.627E-03	1.000000	1.757E+01
3.693E-03	1.000000	1.857E+01
3.759E-03	1.000000	1.960E+01
3.827E-03	1.000000	2.066E+01
3.896E-03	1.000000	2.175E+01
3.965E-03	1.000000	2.287E+01
4.036E-03	1.000000	2.402E+01
4.107E-03	1.000000	2.520E+01
4.179E-03	1.000000	2.641E+01
4.252E-03	1.000000	2.765E+01
4.326E-03	1.000000	2.892E+01
4.401E-03	1.000000	3.022E+01
4.477E-03	1.000000	3.155E+01
4.554E-03	1.000000	3.291E+01
4.632E-03	1.000000	3.430E+01
4.711E-03	1.000000	3.572E+01
4.791E-03	1.000000	3.717E+01
4.872E-03	1.000000	3.865E+01
4.954E-03	1.000000	4.016E+01
5.037E-03	1.000000	4.170E+01
5.121E-03	1.000000	4.327E+01
5.206E-03	1.000000	4.487E+01
5.292E-03	1.000000	4.650E+01
5.379E-03	1.000000	4.816E+01
5.467E-03	1.000000	4.985E+01
5.556E-03	1.000000	5.157E+01
5.646E-03	1.000000	5.332E+01
5.737E-03	1.000000	5.510E+01
5.829E-03	1.000000	5.691E+01
5.922E-03	1.000000	5.875E+01
6.016E-03	1.000000	6.062E+01
6.111E-03	1.000000	6.252E+01
6.207E-03	1.000000	6.445E+01
6.304E-03	1.000000	6.641E+01
6.402E-03	1.000000	6.840E+01
6.501E-03	1.000000	7.042E+01
6.601E-03	1.000000	7.247E+01
6.702E-03	1.000000	7.455E+01
6.804E-03	1.000000	7.666E+01
6.907E-03	1.000000	7.880E+01
7.011E-03	1.000000	8.097E+01
7.116E-03	1.000000	8.317E+01
7.222E-03	1.000000	8.540E+01
7.329E-03	1.000000	8.766E+01
7.437E-03	1.000000	8.995E+01
7.546E-03	1.000000	9.227E+01
7.656E-03	1.000000	9.462E+01
7.767E-03	1.000000	9.700E+01
7.879E-03	1.000000	9.941E+01
7.992E-03	1.000000	1.018E+02
8.106E-03	1.000000	1.043E+02
8.221E-03	1.000000	1.067E+02
8.337E-03	1.000000	1.092E+02
8.454E-03	1.000000	1.117E+02
8.572E-03	1.000000	1.142E+02
8.691E-03	1.000000	1.167E+02
8.811E-03	1.000000	1.193E+02
8.932E-03	1.000000	1.218E+02
9.054E-03	1.000000	1.244E+02
9.177E-03	1.000000	1.270E+02
9.301E-03	1.000000	1.296E+02
9.426E-03	1.000000	1.322E+02
9.552E-03	1.000000	1.348E+02
9.679E-03	1.000000	1.375E+02
9.807E-03	1.000000	1.401E+02
9.936E-03	1.000000	1.428E+02
1.007E-02	1.000000	1.455E+02
1.020E-02	1.000000	1.482E+02
1.033E-02	1.000000	1.509E+02
1.046E-02	1.000000	1.536E+02
1.059E-02	1.000000	1.563E+02
1.072E-02	1.000000	1.591E+02
1.085E-02	1.000000	1.618E+02
1.098E-02	1.000000	1.646E+02
1.111E-02	1.000000	1.674E+02
1.125E-02	1.000000	1.702E+02
1.138E-02	1.000000	1.730E+02
1.152E-02	1.000000	1.758E+02
1.165E-02	1.000000	1.786E+02
1.179E-02	1.000000	1.814E+02
1.193E-02	1.000000	1.843E+02
1.207E-02	1.000000	1.871E+02
1.221E-02	1.000000	1.900E+02
1.235E-02	1.000000	1.929E+02
1.249E-02	1.000000	1.958E+02
1.263E-02	1.000000	1.987E+02
1.277E-02	1.000000	2.016E+02
1.291E-02	1.000000	2.045E+02
1.305E-02	1.000000	2.074E+02
1.320E-02	1.000000	2.104E+02
1.334E-02	1.000000	2.133E+02
1.348E-02	1.000000	2.163E+02
1.363E-02	1.000000	2.193E+02
1.377E-02	1.000000	2.223E+02
1.392E-02	1.000000	2.253E+02
1.406E-02	1.000000	2.283E+02
1.421E-02	1.000000	2.313E+02
1.435E-02	1.000000	2.343E+02
1.450E-02	1.000000	2.374E+02
1.465E-02	1.000000	2.404E+02
1.479E-02	1.000000	2.435E+02
1.494E-02	1.000000	2.466E+02
1.509E-02	1.000000	2.496E+02
1.524E-02	1.000000	2.527E+02
1.538E-02	1.000000	2.558E+02
1.553E-02	1.000000	2.589E+02
1.568E-02	1.000000	2.620E+02
1.583E-02	1.000000	2.652E+02
1.598E-02	1.000000	2.683E+02
1.613E-02	1.000000	2.714E+02
1.628E-02	1.000000	2.746E+02
1.643E-02	1.000000	2.777E+02
1.658E-02	1.000000	2.809E+02
1.673E-02	1.000000	2.841E+02
1.688E-02	1.000000	2.873E+02
1.703E-02	1.000000	2.904E+02
1.718E-02	1.000000	2.936E+02
1.733E-02	1.000000	2.968E+02
1.748E-02	1.000000	3.000E+02
1.763E-02	1.000000	3.032E+02
1.778E-02	1.000000	3.065E+02
1.793E-02	1.000000	3.097E+02
1.808E-02	1.000000	3.129E+02
1.823E-02	1.000000	3.161E+02
1.838E-02	1.000000	3.194E+02
1.853E-02	1.000000	3.226E+02
1.868E-02	1.000000	3.259E+02
1.883E-02	1.000000	3.291E+02
1.898E-02	1.000000	3.324E+02
1.913E-02	1.000000	3.356E+02
1.928E-02	1.000000	3.389E+02
1.943E-02	1.000000	3.422E+02
1.958E-02	1.000000	3.455E+02
1.973E-02	1.000000	3.488E+02
1.988E-02	1.000000	3.521E+02
2.003E-02	1.000000	3.554E+02
2.018E-02	1.000000	3.587E+02
2.033E-02	1.000000	3.620E+02
2.048E-02	1.000000	3.653E+02
2.063E-02	1.000000	3.686E+02
2.078E-02	1.000000	3.719E+02
2.093E-02	1.000000	3.752E+02
2.108E-02	1.000000	3.786E+02
2.123E-02	1.000000	3.819E+02
2.138E-02	1.000000	3.852E+02
2.153E-02	1.000000	3.886E+02
2.168E-02	1.000000	3.919E+02
2.183E-02	1.000000	3.953E+02
2.198E-02	1.000000	3.986E+02
2.213E-02	1.000000	4.020E+02
2.228E-02	1.000000	4.053E+02
2.243E-02	1.000000	4.087E+02
2.258E-02	1.000000	4.121E+02
2.273E-02	1.000000	4.154E+02
2.288E-02	1.000000	4.188E+02
2.303E-02	1.000000	4.222E+02
2.318E-02	1.000000	4.256E+02
2.333E-02	1.000000	4.289E+02
2.348E-02	1.000000	4.323E+02
2.363E-02	1.000000	4.357E+02
2.378E-02	1.000000	4.391E+02
2.393E-02	1.000000	4.425E+02
2.408E-02	1.000000	4.459E+02
2.423E-02	1.000000	4.493E+02
2.438E-02	1.000000	4.527E+02
2.453E-02	1.000000	4.561E+02
2.468E-02	1.000000	4.595E+02
2.483E-02	1.000000	4.629E+02
2.498E-02	1.000000	4.663E+02
2.513E-02	1.000000	4.697E+02
2.528E-02	1.000000	4.731E+02
2.543E-02	1.000000	4.765E+02
2.558E-02	1.000000	4.799E+02
2.573E-02	1.000000	4.833E+02
2.588E-02	1.000000	4.867E+02
2.603E-02	1.000000	4.901E+02
2.618E-02	1.000000	4.935E+02
2.633E-02	1.000000	4.969E+02
2.648E-02	1.000000	5.003E+02
2.663E-02	1.000000	5.037E+02
2.678E-02	1.000000	5.071E+02
2.693E-02	1.000000	5.105E+02
2.708E-02	1.000000	5.139E+02
2.723E-02	1.000000	5.173E+02
2.738E-02	1.000000	5.207E+02
2.753E-02	1.000000	5.241E+02
2.768E-02	1.000000	5.275E+02
2.783E-02	1.000000	5.309E+02
2.798E-02	1.000000	5.343E+02
2.813E-02	1.000000	5.377E+02
2.828E-02	1.000000	5.411E+02
2.843E-02	1.000000	5.445E+02
2.858E-02	1.000000	5.479E+02
2.873E-02	1.000000	5.513E+02
2.888E-02	1.000000	5.547E+02
2.903E-02	1.000000	5.581E+02
2.918E-02	1.000000	5.615E+02
2.933E-02	1.000000	5.649E+02
2.948E-02	1.000000	5.683E+02
2.963E-02	1.000000	5.717E+02
2.978E-02	1.000000	5.751E+02
2.993E-02	1.000000	5.785E+02
3.008E-02	1.000000	5.819E+02
3.023E-02	1.000000	5.853E+02
3.038E-02	1.000000	5.887E+02
3.053E-02	1.000000	5.921E+02
3.068E-02	1.000000	5.955E+02
3.083E-02	1.000000	5.989E+02
3.098E-02	1.000000	6.023E+02
3.113E-02	1.000000	6.057E+02
3.128E-02	1.000000	6.091E+02
3.143E-02	1.000000	6.125E+02
3.158E-02	1.000000	6.159E+02
3.173E-02	1.000000	6.193E+02
3.188E-02	1.000000	6.227E+02
3.203E-02	1.000000	6.261E+02
3.218E-02	1.000000	6.295E+02
3.233E-02	1.000000	6.329E+02
3.248E-02	1.000000	6.363E+02
3.263E-02	1.000000	6.397E+02
3.278E-02	1.000000	6.431E+02
3.293E-02	1.000000	6.465E+02
3.308E-02	1.000000	6.499E+02
3.323E-02	1.000000	6.533E+02
3.338E-02	1.000000	6.567E+02
3.353E-02	1.000000	6.601E+02
3.368E-02	1.000000	6.635E+02
3.383E-02	1.000000	6.669E+02
3.398E-02	1.000000	6.703E+02
3.413E-02	1.000000	6.737E+02
3.428E-02	1.000000	6.771E+02
3.443E-02	1.000000	6.805E+02
3.458E-02	1.000000	6.839E+02
3.473E-02	1.000000	6.873E+02
3.488E-02	1.000000	6.907E+02
3.503E-02	1.000000	6.941E+02
3.518E-02	1.000000	6.975E+02
3.533E-02	1.000000	7.009E+02
3.548E-02	1.000000	7.043E+02
3.563E-02	1.000000	7.077E+02
3.578E-02	1.000000	7.111E+02
3.593E-02	1.000000	7.145E+02
3.608E-02	1.000000	7.179E+02
3.623E-02	1.000000	7.213E+02
3.638E-02	1.000000	7.247E+02
3.653E-02	1.000000	7.281E+02
3.668E-02	1.000000	7.315E+02
3.683E-02	1.000000	7.349E+02
3.698E-02	1.000000	7.383E+02
3.713E-02	1.000000	7.417E+02
3.728E-02	1.000000	7.451E+02
3.743E-02	1.000000	7.485E+02
3.758E-02	1.000000	7.519E+02
3.773E-02	1.000000	7.553E+02
3.788E-02	1.000000	7.587E+02
3.803E-02	1.000000	7.621E+02
3.818E-02	1.000000	7.655E+02
3.833E-02	1.000000	7.689E+02
3.848E-02	1.000000	7.723E+02
3.863E-02	1.000000	7.757E+02
3.878E-02	1.000000	7.791E+02
3.893E-02	1.000000	7.825E+02
3.908E-02	1.000000	7.859E+02
3.923E-02	1.000000	7.893E+02
3.938E-02	1.000000	7.927E+02
3.953E-02	1.000000	7.961E+02
3.968E-02	1.000000	7.995E+02
3.983E-02	1.000000	8.029E+02
3.998E-02	1.000000	8.063E+02
4.013E-02	1.000000	8.097E+02
4.028E-02	1.000000	8.131E+02
4.043E-02	1.000000	8.165E+02
4.058E-02	1.000000	8.199E+02
4.073E-02	1.000000	8.233E+02
4.088E-02	1.000000	8.267E+02
4.103E-02	1.000000	8.301E+02
4.118E-02	1.000000	8.335E+02
4.133E-02	1.000000	8.369E+02
4.148E-02	1.000000	8.403E+02
4.163E-02	1.000000	8.437E+02
4.178E-02	1.000000	8.471E+02
4.193E-02	1.000000	8.505E+02
4.208E-02	1.000000	8.539E+02
4.223E-02	1.000000	8.573E+02
4.238E-02	1.000000	8.607E+02
4.253E-02	1.000000	8.641E+02
4.268E-02	1.000000	8.675E+02
4.283E-02	1.000000	8.709E+02
4.298E-02	1.000000	8.743E+02
4.313E-02	1.000000	8.777E+02
4.328E-02	1.000000	8.811E+02
4.343E-02	1.000000	8.845E+02
4.358E-02	1.000000	8.879E+02
4.373E-02	1.000000	8.913E+02
4.388E-02	1.000000	8.947E+02
4.403E-02	1.000000	8.981E+02
4.418E-02	1.000000	9.015E+02
4.433E-02	1.000000	9.049E+02
4.448E-02	1.000000	9.083E+02
4.463E-02	1.000000	9.117E+02
4.478E-02	1.000000	9.151E+02
4.493E-02	1.000000	9.185E+02
4.508E-02	1.000000	9.219E+02
4.523E-02	1.000000	9.253E+02
4.538E-02	1.000000	9.287E+02
4.553E-02	1.000000	9.321E+02
4.568E-02	1.000000	9.355E+02
4.583E-02	1.000000	9.389E+02
4.598E-02	1.000000	9.423E+02
4.613E-02	1.000000	9.457E+02
4.628E-02	1.000000	9.491E+02
4.643E-02	1.000000	9.525E+02
4.658E-02	1.000000	9.559E+02
4.673E-02	1.000000	9.593E+02
4.688E-02	1.000000	9.627E+02
4.703E-02	1.000000	9.661E+02
4.718E-02	1.000000	9.695E+02
4.733E-02	1.000000	9.729E+02
4.748E-02	1.000000	9.763E+02
4.763E-02	1.000000	9.797E+02
4.778E-02	1.000000	9.831E+02
4.793E-02	1.000000	9.865E+02
4.808E-02	1.000000	9.899E+02
4.823E-02	1.000000	9.933E+02
4.838E-02	1.000000	9.967E+02
4.853E-02	1.000000	1.000E+03

POTASSIUM BROMIDE

[illegible] = 1.00E-14 GM TEMPERATURE = 20C)

[illegible]	SATURATION RATIO	WATER GAINED(GM)
1.2[illegible]E-05	0.815974	1.52[illegible]E-14
1.5[illegible]E-05	0.837210	1.681E-14
1.7[illegible]E-05	0.856674	1.868E-14
1.9[illegible]E-05	0.872146	2.101E-14
1.[illegible]E-05	0.[illegible]31	2.402E-14
1.[illegible]E-05	0.[illegible]43	2.802E-14
2.[illegible]E-05	0.[illegible]71	3.362E-14
2.[illegible]E-05	0.[illegible]52	4.203E-14
2.[illegible]E-05	0.[illegible]	4.670E-14
2.372E-05	0.932475	5.253E-14
2.474E-05	0.952[illegible]	6.004E-14
2.597E-05	0.965156	7.004E-14
2.752E-05	0.971431	8.405E-14
2.947E-05	0.974539	9.339E-14
2.950E-05	0.977[illegible]3	1.051E-13
3.096E-05	0.980729	1.201E-13
3.244E-05	0.983783	1.401E-13
3.442E-05	0.986[illegible]	1.681E-13
3.702E-05	0.989820	2.101E-13
4.050E-05	0.992773	2.802E-13
4.564E-05	0.995640	4.202E-13
5.347E-05	0.998472	8.404E-13
6.055E-05	0.999721	9.338E-13
6.717E-05	0.999971	1.051E-12
6.582E-05	0.999720	1.201E-12
6.928E-05	0.999466	1.401E-12
7.361E-05	0.999708	1.681E-12
7.928E-05	0.999942	2.101E-12
8.724E-05	1.000143	2.801E-12
9.945E-05	1.000357	4.202E-12
1.293E-04	1.000490	8.404E-12
1.303E-04	1.000466	9.338E-12
1.355E-04	1.000500	1.051E-11
1.417E-04	1.000502	1.201E-11
1.497E-04	1.000503	1.401E-11

1.535E-04	1.000493	1.681E-11
1.707E-04	1.000481	2.101E-11
1.879E-04	1.000460	2.801E-11
2.151E-04	1.000424	4.202E-11
2.710E-04	1.000358	8.404E-11
2.806E-04	1.000348	9.338E-11
2.919E-04	1.000337	1.051E-10
3.052E-04	1.000324	1.201E-10
3.212E-04	1.000310	1.401E-10
3.414E-04	1.000294	1.681E-10
3.677E-04	1.000276	2.101E-10
4.047E-04	1.000253	2.801E-10
4.633E-04	1.000223	4.202E-10
5.837E-04	1.000179	8.404E-10
6.046E-04	1.000173	9.338E-10
6.288E-04	1.000167	1.051E-09
6.574E-04	1.000160	1.201E-09
6.921E-04	1.000152	1.401E-09
7.355E-04	1.000143	1.681E-09
7.923E-04	1.000133	2.101E-09
8.720E-04	1.000121	2.802E-09
9.982E-04	1.000106	4.203E-09
1.258E-03	1.000084	8.407E-09
1.303E-03	1.000082	9.341E-09
1.355E-03	1.000078	1.051E-08
1.417E-03	1.000075	1.201E-08
1.491E-03	1.000071	1.401E-08
1.585E-03	1.000067	1.682E-08
1.707E-03	1.000062	2.103E-08
1.879E-03	1.000057	2.805E-08
2.152E-03	1.000049	4.209E-08
2.713E-03	1.000039	8.434E-08

POTASSIUM BROMIDE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.520E-05	0.817680	1.528E-13
3.619E-05	0.834894	1.681E-13
3.733E-05	0.852343	1.868E-13
3.866E-05	0.869806	2.101E-13
4.023E-05	0.886995	2.402E-13
4.213E-05	0.903926	2.802E-13
4.453E-05	0.920702	3.362E-13
4.769E-05	0.937294	4.203E-13
4.927E-05	0.943836	4.669E-13
5.111E-05	0.950349	5.253E-13
5.330E-05	0.956734	6.003E-13
5.596E-05	0.963152	7.004E-13
5.930E-05	0.969510	8.405E-13
6.133E-05	0.972667	9.338E-13
6.369E-05	0.975823	1.051E-12
6.649E-05	0.978975	1.201E-12
6.989E-05	0.982102	1.401E-12
7.415E-05	0.985228	1.681E-12
7.975E-05	0.988323	2.101E-12
8.764E-05	0.991400	2.801E-12
1.002E-04	0.994469	4.202E-12
1.260E-04	0.997502	8.404E-12
1.305E-04	0.997784	9.338E-12
1.357E-04	0.998068	1.051E-11
1.418E-04	0.998356	1.201E-11
1.493E-04	0.998645	1.401E-11
1.586E-04	0.998935	1.681E-11
1.708E-04	0.999224	2.101E-11
1.880E-04	0.999509	2.801E-11
2.151E-04	0.999785	4.202E-11
2.710E-04	1.000036	8.404E-11
2.807E-04	1.000058	9.338E-11
2.919E-04	1.000079	1.050E-10
3.052E-04	1.000098	1.201E-10
3.213E-04	1.000117	1.401E-10

3.414E-04	1.000133	1.681E-10
3.678E-04	1.000146	2.101E-10
4.043E-04	1.000156	2.801E-10
4.633E-04	1.000158	4.202E-10
5.837E-04	1.000147	8.404E-10
6.046E-04	1.000144	9.338E-10
6.288E-04	1.000141	1.050E-09
6.574E-04	1.000137	1.201E-09
6.921E-04	1.000132	1.401E-09
7.355E-04	1.000127	1.681E-09
7.923E-04	1.000120	2.101E-09
8.720E-04	1.000111	2.801E-09
9.982E-04	1.000100	4.202E-09
1.258E-03	1.000081	8.404E-09
1.303E-03	1.000079	9.338E-09
1.355E-03	1.000076	1.050E-08
1.416E-03	1.000073	1.201E-08
1.491E-03	1.000069	1.401E-08
1.585E-03	1.000065	1.681E-08
1.707E-03	1.000061	2.101E-08
1.879E-03	1.000056	2.802E-08
2.151E-03	1.000049	4.202E-08
2.710E-03	1.000039	8.406E-08
2.807E-03	1.000038	9.341E-08
2.919E-03	1.000036	1.051E-07
3.052E-03	1.000035	1.201E-07
3.213E-03	1.000033	1.401E-07
3.414E-03	1.000031	1.682E-07
3.678E-03	1.000029	2.103E-07
4.049E-03	1.000026	2.804E-07
4.636E-03	1.000023	4.205E-07
5.844E-03	1.000015	.434E-07

POTASSIUM BROMIDE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.583E-05	0.816617	1.528E-12
7.798E-05	0.833821	1.681E-12
8.043E-05	0.851263	1.868E-12
8.328E-05	0.868722	2.101E-12
8.666E-05	0.885913	2.402E-12
9.077E-05	0.902853	2.802E-12
9.594E-05	0.919646	3.362E-12
1.027E-04	0.936270	4.202E-12
1.062E-04	0.942829	4.669E-12
1.101E-04	0.949363	5.253E-12
1.148E-04	0.955774	6.003E-12
1.206E-04	0.962223	7.004E-12
1.277E-04	0.968620	8.404E-12
1.321E-04	0.971800	9.338E-12
1.372E-04	0.974981	1.051E-11
1.432E-04	0.978162	1.201E-11
1.506E-04	0.981322	1.401E-11
1.598E-04	0.984488	1.681E-11
1.718E-04	0.987629	2.101E-11
1.888E-04	0.990763	2.801E-11
2.158E-04	0.993907	4.202E-11
2.714E-04	0.997052	8.404E-11
2.811E-04	0.997349	9.338E-11
2.923E-04	0.997650	1.051E-10
3.055E-04	0.997955	1.201E-10
3.216E-04	0.998264	1.401E-10
3.417E-04	0.998576	1.681E-10
3.680E-04	0.998890	2.101E-10
4.049E-04	0.999206	2.801E-10
4.635E-04	0.999520	4.202E-10
5.838E-04	0.999825	8.404E-10
6.047E-04	0.999854	9.338E-10
6.289E-04	0.999883	1.050E-09
6.575E-04	0.999911	1.201E-09
6.922E-04	0.999939	1.401E-09

7.355E-04	0.999965	1.681E-09
7.923E-04	0.999991	2.101E-09
8.720E-04	1.000014	2.801E-09
9.982E-04	1.000035	4.202E-09
1.258E-03	1.000049	8.404E-09
1.303E-03	1.000049	9.337E-09
1.355E-03	1.000050	1.050E-08
1.416E-03	1.000050	1.201E-08
1.491E-03	1.000050	1.401E-08
1.585E-03	1.000049	1.681E-08
1.707E-03	1.000048	2.101E-08
1.879E-03	1.000046	2.801E-08
2.150E-03	1.000042	4.202E-08
2.709E-03	1.000036	8.404E-08
2.806E-03	1.000035	9.337E-08
2.919E-03	1.000034	1.050E-07
3.052E-03	1.000032	1.201E-07
3.212E-03	1.000031	1.401E-07
3.414E-03	1.000029	1.681E-07
3.677E-03	1.000028	2.101E-07
4.047E-03	1.000025	2.801E-07
4.633E-03	1.000022	4.202E-07
5.838E-03	1.000018	8.406E-07
6.047E-03	1.000017	9.341E-07
6.289E-03	1.000017	1.051E-06
6.575E-03	1.000016	1.201E-06
6.922E-03	1.000015	1.401E-06
7.356E-03	1.000014	1.682E-06
7.925E-03	1.000013	2.103E-06
8.723E-03	1.000012	2.804E-06
9.997E-03	1.000011	4.209E-06
1.259E-02	1.000008	8.433E-06

POTASSIUM BROMIDE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.634E-04	0.816125	1.528E-11
1.680E-04	0.833324	1.681E-11
1.733E-04	0.850762	1.868E-11
1.794E-04	0.868219	2.101E-11
1.867E-04	0.885411	2.401E-11
1.956E-04	0.902355	2.802E-11
2.067E-04	0.919157	3.362E-11
2.213E-04	0.935795	4.202E-11
2.287E-04	0.942362	4.669E-11
2.372E-04	0.948906	5.253E-11
2.474E-04	0.955329	6.003E-11
2.597E-04	0.961793	7.004E-11
2.752E-04	0.968207	8.404E-11
2.846E-04	0.971397	9.338E-11
2.956E-04	0.974590	1.051E-10
3.086E-04	0.977785	1.201E-10
3.244E-04	0.980960	1.401E-10
3.442E-04	0.984144	1.681E-10
3.702E-04	0.987307	2.101E-10
4.068E-04	0.990468	2.801E-10
4.649E-04	0.993647	4.202E-10
5.847E-04	0.996843	8.404E-10
6.055E-04	0.997147	9.338E-10
6.297E-04	0.997456	1.050E-09
6.582E-04	0.997769	1.201E-09
6.928E-04	0.998087	1.401E-09
7.361E-04	0.998409	1.681E-09
7.928E-04	0.998735	2.101E-09
8.724E-04	0.999065	2.801E-09
9.985E-04	0.999397	4.202E-09
1.258E-03	0.999727	8.404E-09
1.303E-03	0.999760	9.337E-09
1.355E-03	0.999792	1.050E-08
1.417E-03	0.999824	1.201E-08
1.491E-03	0.999856	1.401E-08

1.585E-03	0.999888	1.681E-08
1.707E-03	0.999919	2.101E-08
1.879E-03	0.999949	2.801E-08
2.151E-03	0.999978	4.202E-08
2.709E-03	1.000003	8.403E-08
2.806E-03	1.000006	9.337E-08
2.919E-03	1.000008	1.050E-07
3.052E-03	1.000010	1.200E-07
3.212E-03	1.000012	1.401E-07
3.414E-03	1.000013	1.681E-07
3.677E-03	1.000015	2.101E-07
4.047E-03	1.000016	2.801E-07
4.633E-03	1.000016	4.202E-07
5.837E-03	1.000015	8.404E-07
6.046E-03	1.000014	9.337E-07
6.288E-03	1.000014	1.050E-06
6.574E-03	1.000014	1.201E-06
6.921E-03	1.000013	1.401E-06
7.355E-03	1.000013	1.681E-06
7.923E-03	1.000012	2.101E-06
8.720E-03	1.000011	2.801E-06
9.982E-03	1.000010	4.202E-06
1.258E-02	1.000008	8.406E-06
1.303E-02	1.000008	9.340E-06
1.355E-02	1.000008	1.051E-05
1.417E-02	1.000007	1.201E-05
1.491E-02	1.000007	1.401E-05
1.585E-02	1.000007	1.682E-05
1.707E-02	1.000006	2.103E-05
1.879E-02	1.000006	2.804E-05
2.152E-02	1.000005	4.209E-05
2.713E-02	1.000004	8.433E-05

POTASSIUM BROMIDE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS (CM)	SATURATION RATIO	WATER GAINED(GM)
3.520E-04	0.815896	1.528E-10
3.619E-04	0.833093	1.681E-10
3.733E-04	0.850529	1.868E-10
3.866E-04	0.867986	2.101E-10
4.022E-04	0.885178	2.401E-10
4.213E-04	0.902124	2.802E-10
4.453E-04	0.918930	3.362E-10
4.769E-04	0.935574	4.202E-10
4.927E-04	0.942146	4.669E-10
5.111E-04	0.948694	5.253E-10
5.330E-04	0.955122	6.003E-10
5.596E-04	0.961593	7.003E-10
5.929E-04	0.968015	8.404E-10
6.133E-04	0.971211	9.338E-10
6.369E-04	0.974409	1.050E-09
6.649E-04	0.977610	1.201E-09
6.989E-04	0.980793	1.401E-09
7.415E-04	0.983985	1.681E-09
7.975E-04	0.987157	2.101E-09
8.763E-04	0.990331	2.801E-09
1.002E-03	0.993526	4.202E-09
1.260E-03	0.996746	8.404E-09
1.305E-03	0.997053	9.337E-09
1.357E-03	0.997365	1.050E-08
1.418E-03	0.997683	1.201E-08
1.493E-03	0.998005	1.401E-08
1.586E-03	0.998332	1.681E-08
1.708E-03	0.998664	2.101E-08
1.880E-03	0.999000	2.801E-08
2.151E-03	0.999340	4.202E-08
2.710E-03	0.999682	8.403E-08
2.807E-03	0.999716	9.337E-08
2.919E-03	0.999750	1.050E-07
3.052E-03	0.999784	1.200E-07
3.213E-03	0.999818	1.401E-07

3.414E-03	0.999852	1.681E-07
3.677E-03	0.999865	2.101E-07
4.048E-03	0.999918	2.801E-07
4.633E-03	0.999951	4.202E-07
5.837E-03	0.999982	8.403E-07
6.046E-03	0.999985	9.337E-07
6.218E-03	0.999998	1.050E-06
6.574E-03	0.999991	1.200E-06
6.921E-03	0.999994	1.401E-06
7.355E-03	0.999996	1.681E-06
7.922E-03	0.999999	2.101E-06
8.720E-03	1.000001	2.801E-06
9.982E-03	1.000003	4.202E-06
1.258E-02	1.000005	8.403E-06
1.303E-02	1.000005	9.337E-06
1.355E-02	1.000005	1.050E-05
1.416E-02	1.000005	1.200E-05
1.491E-02	1.000005	1.401E-05
1.584E-02	1.000005	1.681E-05
1.707E-02	1.000005	2.101E-05
1.879E-02	1.000005	2.801E-05
2.151E-02	1.000004	4.202E-05
2.710E-02	1.000004	8.406E-05
2.807E-02	1.000003	9.340E-05
2.919E-02	1.000003	1.051E-04
3.052E-02	1.000003	1.201E-04
3.213E-02	1.000003	1.401E-04
3.414E-02	1.000003	1.682E-04
3.678E-02	1.000003	2.103E-04
4.059E-02	1.000003	2.804E-04
4.636E-02	1.000002	4.209E-04
5.844E-02	1.000002	8.433E-04

POTASSIUM BROMIDE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.583E-04	0.815790	1.528E-09
7.797E-04	0.832986	1.681E-09
8.043E-04	0.850422	1.868E-09
8.328E-04	0.867878	2.101E-09
8.666E-04	0.885070	2.401E-09
9.077E-04	0.902017	2.801E-09
9.593E-04	0.918824	3.362E-09
1.027E-03	0.935472	4.202E-09
1.061E-03	0.942045	4.669E-09
1.101E-03	0.948596	5.252E-09
1.148E-03	0.955026	6.003E-09
1.206E-03	0.961500	7.003E-09
1.277E-03	0.967926	8.404E-09
1.321E-03	0.971124	9.338E-09
1.372E-03	0.974325	1.050E-08
1.432E-03	0.977529	1.201E-08
1.506E-03	0.980715	1.401E-08
1.597E-03	0.983911	1.681E-08
1.718E-03	0.987088	2.101E-08
1.888E-03	0.990267	2.801E-08
2.158E-03	0.993470	4.202E-08
2.714E-03	0.996701	8.403E-08
2.811E-03	0.997010	9.337E-08
2.923E-03	0.997324	1.050E-07
3.055E-03	0.997643	1.200E-07
3.216E-03	0.997967	1.401E-07
3.417E-03	0.998296	1.681E-07
3.680E-03	0.998630	2.101E-07
4.049E-03	0.998969	2.801E-07
4.635E-03	0.999313	4.202E-07
5.838E-03	0.999661	8.403E-07
6.047E-03	0.999656	9.337E-07
6.289E-03	0.999730	1.050E-06
6.575E-03	0.999765	1.200E-06
6.922E-03	0.999800	1.401E-06

7.3[illegible]E-03	0.999835	1.681E-05
7.92[illegible]E-03	0.999870	2.101E-05
8.72[illegible]E-03	0.999904	2.801E-05
9.43[illegible]E-03	0.999939	4.202E-05
1.25[illegible]E-02	0.999972	8.403E-05
1.30[illegible]E-02	0.999976	9.337E-05
1.35[illegible]E-02	0.999979	1.050E-04
1.41[illegible]E-02	0.999982	1.200E-04
1.49[illegible]E-02	0.999986	1.401E-04
1.58[illegible]E-02	0.999989	1.681E-04
1.70[illegible]E-02	0.999992	2.101E-04
1.87[illegible]E-02	0.999995	2.801E-04
2.15[illegible]E-02	0.999998	4.202E-04
2.70[illegible]E-02	1.000000	8.403E-04
2.80[illegible]E-02	1.000001	9.337E-04
2.91[illegible]E-02	1.000001	1.050E-03
3.05[illegible]E-02	1.000001	1.200E-03
3.21[illegible]E-02	1.000001	1.401E-03
3.41[illegible]E-02	1.000001	1.681E-03
3.67[illegible]E-02	1.000001	2.101E-03
4.04[illegible]E-02	1.000001	2.801E-03
4.63[illegible]E-02	1.000002	4.202E-03
5.33[illegible]E-02	1.000001	8.406E-03
5.94[illegible]E-02	1.000001	9.340E-03
6.23[illegible]E-02	1.000001	1.051E-02
6.57[illegible]E-02	1.000001	1.201E-02
6.92[illegible]E-02	1.000001	1.401E-02
7.35[illegible]E-02	1.000001	1.682E-02
7.92[illegible]E-02	1.000001	2.103E-02
8.72[illegible]E-02	1.000001	2.804E-02
9.93[illegible]E-02	1.000001	4.209E-02
1.25[illegible]E-01	1.000001	8.433E-02

POTASSIUM BROMIDE

(CRYSTAL MASS = 1.00E-08 GM .TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.634E-03	0.815741	1.528E-08
1.680E-03	0.832936	1.681E-08
1.733E-03	0.850372	1.868E-08
1.794E-03	0.867828	2.101E-08
1.867E-03	0.885020	2.401E-08
1.956E-03	0.901967	2.801E-08
2.067E-03	0.918776	3.362E-08
2.213E-03	0.935425	4.202E-08
2.287E-03	0.941998	4.669E-08
2.372E-03	0.948550	5.252E-08
2.474E-03	0.954982	6.003E-08
2.597E-03	0.961457	7.003E-08
2.752E-03	0.967895	8.404E-08
2.846E-03	0.971084	9.337E-08
2.956E-03	0.974286	1.050E-07
3.086E-03	0.977491	1.201E-07
3.244E-03	0.980679	1.401E-07
3.442E-03	0.983876	1.681E-07
3.702E-03	0.987056	2.101E-07
4.068E-03	0.990238	2.801E-07
4.649E-03	0.993444	4.202E-07
5.947E-03	0.996680	8.403E-07
6.055E-03	0.996990	9.337E-07
6.297E-03	0.997304	1.050E-06
6.582E-03	0.997624	1.200E-06
6.928E-03	0.997949	1.401E-06
7.361E-03	0.998279	1.681E-06
7.928E-03	0.998615	2.101E-06
8.724E-03	0.998955	2.801E-06
9.985E-03	0.999301	4.202E-06
1.258E-02	0.999651	8.403E-06
1.303E-02	0.999686	9.337E-06
1.355E-02	0.999721	1.050E-05
1.417E-02	0.999757	1.200E-05
1.491E-02	0.999792	1.400E-05

1.585E-02	0.999827	1.681E-05
1.707E-02	0.999863	2.101E-05
1.879E-02	0.999898	2.801E-05
2.151E-02	0.999933	4.201E-05
2.709E-02	0.999968	8.403E-05
2.806E-02	0.999971	9.337E-05
2.914E-02	0.999975	1.050E-04
3.051E-02	0.999978	1.200E-04
3.212E-02	0.999982	1.400E-04
3.414E-02	0.999985	1.681E-04
3.677E-02	0.999988	2.101E-04
4.047E-02	0.999992	2.801E-04
4.533E-02	0.999995	4.201E-04
5.337E-02	0.999998	8.403E-04
6.046E-02	0.999999	9.337E-04
6.298E-02	0.999999	1.050E-03
6.574E-02	0.999999	1.200E-03
6.921E-02	0.999999	1.401E-03
7.354E-02	1.000000	1.681E-03
7.922E-02	1.000000	2.101E-03
8.720E-02	1.000000	2.801E-03
9.982E-02	1.000000	4.202E-03
1.258E-01	1.000000	8.405E-03
1.303E-01	1.000000	9.340E-03
1.355E-01	1.000000	1.051E-02
1.417E-01	1.000001	1.201E-02
1.491E-01	1.000000	1.401E-02
1.585E-01	1.000000	1.682E-02
1.707E-01	1.000000	2.102E-02
1.879E-01	1.000000	2.804E-02
2.152E-01	1.000000	4.209E-02
2.713E-01	1.000000	8.433E-02

POTASSIUM BROMIDE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.520E-03	0.815718	1.528E-07
3.619E-03	0.832913	1.681E-07
3.733E-03	0.850348	1.868E-07
3.865E-03	0.867804	2.101E-07
4.022E-03	0.884997	2.401E-07
4.213E-03	0.901944	2.801E-07
4.453E-03	0.918753	3.361E-07
4.769E-03	0.935402	4.202E-07
4.927E-03	0.941977	4.669E-07
5.111E-03	0.948529	5.252E-07
5.330E-03	0.954961	6.002E-07
5.595E-03	0.961437	7.003E-07
5.929E-03	0.967866	8.403E-07
6.132E-03	0.971065	9.337E-07
6.369E-03	0.974268	1.050E-06
6.648E-03	0.977474	1.200E-06
6.988E-03	0.980662	1.401E-06
7.415E-03	0.983860	1.681E-06
7.975E-03	0.987041	2.101E-06
8.763E-03	0.990224	2.801E-06
1.002E-02	0.993432	4.202E-06
1.260E-02	0.996670	8.403E-06
1.305E-02	0.996980	9.337E-06
1.357E-02	0.997295	1.050E-05
1.418E-02	0.997615	1.200E-05
1.493E-02	0.997941	1.400E-05
1.586E-02	0.998272	1.681E-05
1.708E-02	0.998608	2.101E-05
1.880E-02	0.998949	2.801E-05
2.151E-02	0.999295	4.201E-05
2.710E-02	0.999646	8.403E-05
2.807E-02	0.999682	9.336E-05
2.919E-02	0.999717	1.050E-04
3.052E-02	0.999753	1.200E-04
3.213E-02	0.999788	1.400E-04

3.414E-02	C.999824	1.681E-04
3.677E-02	0.999859	2.101E-04
4.047E-02	0.999895	2.801E-04
4.633E-02	0.999930	4.201E-04
5.837E-02	0.999966	8.403E-04
6.046E-02	0.999969	9.336E-04
6.288E-02	0.999973	1.050E-03
6.574E-02	C.999976	1.200E-03
6.921E-02	0.999980	1.400E-03
7.354E-02	0.999983	1.681E-03
7.922E-02	0.999987	2.101E-03
8.720E-02	C.999990	2.801E-03
9.981E-02	0.999994	4.201E-03
1.258E-01	0.999997	8.403E-03
1.303E-01	0.999998	9.336E-03
1.355E-01	C.999998	1.050E-02
1.416E-01	0.999998	1.200E-02
1.491E-01	C.999999	1.400E-02
1.584E-01	0.999999	1.681E-02
1.707E-01	0.999999	2.101E-02
1.879E-01	0.999999	2.801E-02
2.151E-01	1.000000	4.202E-02
2.710E-01	1.000000	8.405E-02
2.807E-01	1.000000	9.340E-02
2.919E-01	1.000000	1.051E-01
3.052E-01	1.000000	1.201E-01
3.213E-01	1.000000	1.401E-01
3.414E-01	1.000000	1.682E-01
3.678E-01	1.000000	2.102E-01
4.049E-01	1.000000	2.804E-01
4.636E-01	1.000000	4.209E-01
5.844E-01	1.000000	8.432E-01

POTASSIUM BROMIDE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.583E-03	0.815707	1.528E-06
7.797E-03	0.832902	1.681E-06
8.043E-03	0.850337	1.868E-06
8.328E-03	0.867794	2.101E-06
8.666E-03	0.884986	2.401E-06
9.077E-03	0.901934	2.801E-06
9.593E-03	0.918742	3.361E-06
1.027E-02	0.935392	4.202E-06
1.061E-02	0.941967	4.669E-06
1.101E-02	0.948519	5.252E-06
1.148E-02	0.954952	6.002E-06
1.205E-02	0.961428	7.003E-06
1.277E-02	0.967857	8.403E-06
1.321E-02	0.971056	9.337E-06
1.372E-02	0.974259	1.050E-05
1.432E-02	0.977465	1.200E-05
1.506E-02	0.980654	1.401E-05
1.597E-02	0.983853	1.681E-05
1.718E-02	0.987034	2.101E-05
1.888E-02	0.990218	2.801E-05
2.158E-02	0.993426	4.201E-05
2.714E-02	0.996666	8.403E-05
2.810E-02	0.996976	9.336E-05
2.923E-02	0.997291	1.050E-04
3.055E-02	0.997611	1.200E-04
3.216E-02	0.997937	1.400E-04
3.416E-02	0.998268	1.681E-04
3.680E-02	0.998604	2.101E-04
4.049E-02	0.998946	2.801E-04
4.634E-02	0.999292	4.201E-04
5.838E-02	0.999644	8.403E-04
6.047E-02	0.999680	9.336E-04
6.289E-02	0.999715	1.050E-03
6.575E-02	0.999751	1.200E-03
6.921E-02	0.999786	1.400E-03

7.355E-02	0.999822	1.681E-03
7.923E-02	0.999858	2.101E-03
8.720E-02	0.999893	2.801E-03
9.982E-02	0.999929	4.201E-03
1.258E-01	0.999965	8.402E-03
1.303E-01	0.999968	9.336E-03
1.355E-01	0.999972	1.050E-02
1.416E-01	0.999976	1.200E-02
1.491E-01	0.999979	1.400E-02
1.584E-01	0.999983	1.680E-02
1.707E-01	0.999986	2.101E-02
1.879E-01	0.999990	2.801E-02
2.150E-01	0.999993	4.201E-02
2.709E-01	0.999997	8.403E-02
2.806E-01	0.999997	9.336E-02
2.919E-01	0.999997	1.050E-01
3.051E-01	0.999998	1.200E-01
3.212E-01	0.999998	1.400E-01
3.414E-01	0.999999	1.681E-01
3.677E-01	0.999999	2.101E-01
4.047E-01	0.999999	2.801E-01
4.633E-01	1.000000	4.202E-01
5.838E-01	1.000000	8.405E-01
6.046E-01	1.000000	9.339E-01
6.289E-01	1.000000	1.051E 00
6.575E-01	1.000000	1.201E 00
6.922E-01	1.000000	1.401E 00
7.356E-01	1.000000	1.682E 00
7.924E-01	1.000000	2.102E 00
8.723E-01	1.000000	2.804E 00
9.987E-01	1.000000	4.209E 00
1.259E 00	1.000000	8.432E 00

POTASSIUM BROMIDE

PERCENTAGE	MOLALITY	DENSITY
0.40	5.601	1.3746
0.35	4.524	1.3147
0.30	3.601	1.2593
0.24	2.653	1.1980
0.22	2.370	1.1788
0.20	2.100	1.1601
0.18	1.844	1.1419
0.16	1.600	1.1242
0.14	1.368	1.1070
0.12	1.146	1.0903
0.10	0.934	1.0740
0.08	0.731	1.0581
0.06	0.536	1.0426
0.04	0.350	1.0275
0.02	0.171	1.0127
0.01	0.085	1.0054
0.00	0.000	1.0000

(12) AMMONIUM SULFATE

[NOT REPRODUCIBLE

AMMONIUM SULFATE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
132.15	1.769	3.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.2012E-05	2.3808E-06
1.00E-15	5.5753E-05	5.1293E-06
1.00E-14	2.5878E-04	1.1051E-05
1.00E-13	1.2012E-03	2.3808E-05
1.00E-12	5.5753E-03	5.1293E-05
1.00E-11	2.5878E-02	1.1051E-04
1.00E-10	1.2012E-01	2.3808E-04
1.00E-09	5.5753E-01	5.1293E-04
1.00E-08	2.5878E 00	1.1051E-03
1.00E-07	1.2012E 01	2.3808E-03
1.00E-06	5.5753E 01	5.1293E-03

AMMONIUM SULFATE
(ONE-TWO ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
5.5000	0.81239	2.33076
5.0000	0.83080	2.26110
4.5000	0.84902	2.19362
4.0000	0.86703	2.12821
3.5000	0.88481	2.06477
3.0000	0.90217	2.00652
2.5000	0.91890	1.95971
2.0000	0.93488	1.93337
1.8000	0.94119	1.92680
1.6000	0.94747	1.92343
1.4000	0.95360	1.92949
1.2000	0.95984	1.93539
1.0000	0.96600	1.95359
0.9000	0.96907	1.96877
0.8000	0.97220	1.98383
0.7000	0.97541	1.99877
0.6000	0.97860	2.02280
0.5000	0.98187	2.04969
0.4000	0.98519	2.08551
0.3000	0.98860	2.13320
0.2000	0.99213	2.20169
0.1000	0.99586	2.30577
0.0900	0.99615	2.37546
0.0800	0.99644	2.44509
0.0700	0.99684	2.51467
0.0600	0.99721	2.58420
0.0500	0.99762	2.65366
0.0400	0.99804	2.72306
0.0300	0.99849	2.79240
0.0200	0.99897	2.86167
0.0100	0.99947	2.93086
0.0090	0.99952	2.93773
0.0080	0.99958	2.94466
0.0070	0.99963	2.95159
0.0060	0.99968	2.95847

[illegible]	[illegible]	2.96543
[illegible]	[illegible]	2.97233
[illegible]	[illegible]	2.97924
[illegible]	[illegible]	2.98618
[illegible]	[illegible]	2.99381
[illegible]	[illegible]	2.99750
[illegible]	[illegible]	2.99804
[illegible]	[illegible]	2.99891
[illegible]	[illegible]	2.99962
[illegible]	[illegible]	2.99013
[illegible]	[illegible]	2.99073
[illegible]	[illegible]	2.99143
0.0011	0.99994	2.99226
[illegible]	[illegible]	2.99285
[illegible]	[illegible]	2.99357
[illegible]	[illegible]	2.99447
[illegible]	[illegible]	2.99505
[illegible]	[illegible]	2.99583
[illegible]	[illegible]	2.99609
[illegible]	[illegible]	2.99649
[illegible]	[illegible]	2.99717
[illegible]	[illegible]	2.99855
[illegible]	[illegible]	2.99859

AMMONIUM SULFATE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.578E-06	0.835656	1.377E-16
3.665E-06	0.854084	1.514E-16
3.765E-06	0.872250	1.683E-16
3.882E-06	0.890107	1.893E-16
4.022E-06	0.907602	2.163E-16
4.193E-06	0.924525	2.524E-16
4.409E-06	0.940615	3.028E-16
4.697E-06	0.955678	3.785E-16
4.842E-06	0.961530	4.206E-16
5.012E-06	0.967273	4.732E-16
5.214E-06	0.972772	5.407E-16
5.461E-06	0.978291	6.309E-16
5.773E-06	0.983586	7.570E-16
5.963E-06	0.986152	8.411E-16
6.185E-06	0.988737	9.463E-16
6.449E-06	0.991331	1.081E-15
6.770E-06	0.993822	1.262E-15
7.173E-06	0.996288	1.514E-15
7.705E-06	0.998665	1.892E-15
8.455E-06	1.000923	2.523E-15
9.650E-06	1.002964	3.785E-15
1.212E-05	1.004519	7.570E-15
1.255E-05	1.004525	8.411E-15
1.305E-05	1.004532	9.462E-15
1.364E-05	1.004537	1.081E-14
1.435E-05	1.004531	1.262E-14
1.525E-05	1.004505	1.514E-14
1.642E-05	1.004441	1.892E-14
1.807E-05	1.004310	2.523E-14
2.067E-05	1.004054	3.785E-14
2.604E-05	1.003509	7.570E-14
2.697E-05	1.003422	8.411E-14
2.805E-05	1.003324	9.462E-14
2.932E-05	1.003213	1.081E-13
3.087E-05	1.003085	1.262E-13

3.280E-05	1.002937	1.514E-13
3.533E-05	1.002760	1.892E-13
3.889E-05	1.002541	2.523E-13
4.452E-05	1.002253	3.785E-13
5.608E-05	1.001819	7.569E-13
5.809E-05	1.001760	8.410E-13
6.042E-05	1.001696	9.462E-13
6.316E-05	1.001625	1.081E-12
6.650E-05	1.001547	1.262E-12
7.066E-05	1.001460	1.514E-12
7.612E-05	1.001358	1.892E-12
8.378E-05	1.001238	2.523E-12
9.590E-05	1.001084	3.785E-12
1.208E-04	1.000864	7.569E-12
1.251E-04	1.000834	8.411E-12
1.302E-04	1.000803	9.462E-12
1.361E-04	1.000768	1.081E-11
1.433E-04	1.000730	1.262E-11
1.522E-04	1.000687	1.514E-11
1.640E-04	1.000638	1.892E-11
1.805E-04	1.000580	2.523E-11
2.066E-04	1.000507	3.785E-11
2.603E-04	1.000403	7.572E-11
2.697E-04	1.000389	8.413E-11
2.805E-04	1.000374	9.466E-11
2.932E-04	1.000358	1.082E-10
3.087E-04	1.000340	1.262E-10
3.280E-04	1.000320	1.515E-10
3.534E-04	1.000297	1.894E-10
3.890E-04	1.000270	2.526E-10
4.454E-04	1.000236	3.791E-10
5.615E-04	1.000187	7.596E-10

AMMONIUM SULFATE

(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.709E-06	0.823108	1.377E-15
7.897E-06	0.841525	1.514E-15
8.112E-06	0.859724	1.683E-15
8.364E-06	0.877668	1.893E-15
8.665E-06	0.895317	2.163E-15
9.033E-06	0.912477	2.524E-15
9.500E-06	0.928915	3.023E-15
1.012E-05	0.944476	3.785E-15
1.043E-05	0.950580	4.206E-15
1.080E-05	0.956612	4.731E-15
1.123E-05	0.962449	5.407E-15
1.177E-05	0.968361	6.308E-15
1.244E-05	0.974125	7.570E-15
1.285E-05	0.976960	8.411E-15
1.333E-05	0.979844	9.462E-15
1.389E-05	0.982770	1.081E-14
1.458E-05	0.985638	1.262E-14
1.545E-05	0.988537	1.514E-14
1.660E-05	0.991424	1.892E-14
1.822E-05	0.994302	2.523E-14
2.079E-05	0.997144	3.785E-14
2.611E-05	0.999872	7.570E-14
2.704E-05	1.000036	8.411E-14
2.811E-05	1.000214	9.462E-14
2.938E-05	1.000405	1.081E-13
3.092E-05	1.000604	1.262E-13
3.285E-05	1.000807	1.514E-13
3.537E-05	1.001007	1.892E-13
3.892E-05	1.001189	2.523E-13
4.454E-05	1.001327	3.785E-13
5.610E-05	1.001344	7.569E-13
5.810E-05	1.001331	8.410E-13
6.043E-05	1.001314	9.462E-13
6.318E-05	1.001290	1.081E-12
6.651E-05	1.001259	1.262E-12

7.067E-05	1.001219	1.514E-12
7.613E-05	1.001165	1.892E-12
8.378E-05	1.001092	2.523E-12
9.591E-05	1.000987	3.785E-12
1.208E-04	1.000815	7.569E-12
1.251E-04	1.000791	8.410E-12
1.302E-04	1.000764	9.462E-12
1.361E-04	1.000734	1.081E-11
1.433E-04	1.000701	1.262E-11
1.522E-04	1.000663	1.514E-11
1.640E-04	1.000619	1.892E-11
1.805E-04	1.000566	2.523E-11
2.066E-04	1.000497	3.785E-11
2.603E-04	1.000398	7.569E-11
2.590E-04	1.000385	8.410E-11
2.804E-04	1.000370	9.462E-11
2.932E-04	1.000354	1.081E-10
3.086E-04	1.000337	1.262E-10
3.230E-04	1.000317	1.514E-10
3.533E-04	1.000295	1.892E-10
3.889E-04	1.000268	2.523E-10
4.451E-04	1.000235	3.785E-10
5.609E-04	1.000187	7.572E-10
5.809E-04	1.000180	8.413E-10
6.042E-04	1.000173	9.465E-10
6.317E-04	1.000166	1.082E-09
6.651E-04	1.000158	1.262E-09
7.068E-04	1.000148	1.515E-09
7.614E-04	1.000138	1.894E-09
8.381E-04	1.000125	2.526E-09
9.596E-04	1.000109	3.791E-09
1.210E-03	1.000087	7.596E-09

AMMONIUM SULFATE
(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.661E-05	0.817348	1.377E-14
1.701E-05	0.835758	1.514E-14
1.748E-05	0.853971	1.682E-14
1.802E-05	0.871954	1.893E-14
1.867E-05	0.889671	2.163E-14
1.946E-05	0.906939	2.524E-14
2.047E-05	0.923535	3.028E-14
2.180E-05	0.939321	3.785E-14
2.248E-05	0.945539	4.206E-14
2.326E-05	0.951703	4.731E-14
2.420E-05	0.957695	5.407E-14
2.535E-05	0.963787	6.308E-14
2.680E-05	0.969765	7.570E-14
2.768E-05	0.972723	8.411E-14
2.871E-05	0.975743	9.462E-14
2.993E-05	0.978822	1.081E-13
3.142E-05	0.981863	1.262E-13
3.330E-05	0.984960	1.514E-13
3.576E-05	0.988081	1.892E-13
3.924E-05	0.991244	2.523E-13
4.479E-05	0.994454	3.785E-13
5.626E-05	0.997722	7.569E-13
5.825E-05	0.997959	8.410E-13
6.056E-05	0.998216	9.462E-13
6.330E-05	0.998492	1.081E-12
6.662E-05	0.998786	1.262E-12
7.077E-05	0.999096	1.514E-12
7.621E-05	0.999417	1.892E-12
8.386E-05	0.999744	2.523E-12
9.596E-05	1.000063	3.785E-12
1.209E-04	1.000341	7.569E-12
1.252E-04	1.000362	8.410E-12
1.302E-04	1.000382	9.461E-12
1.361E-04	1.000399	1.081E-11
1.433E-04	1.000413	1.262E-11

1.523E-04	1.000422	1.514E-11
1.640E-04	1.000426	1.892E-11
1.805E-04	1.000421	2.523E-11
2.066E-04	1.000401	3.785E-11
2.603E-04	1.000349	7.569E-11
2.696E-04	1.000341	8.410E-11
2.804E-04	1.000331	9.461E-11
2.932E-04	1.000320	1.081E-10
3.086E-04	1.000308	1.262E-10
3.280E-04	1.000293	1.514E-10
3.533E-04	1.000276	1.892E-10
3.889E-04	1.000254	2.523E-10
4.451E-04	1.000225	3.785E-10
5.608E-04	1.000182	7.569E-10
5.809E-04	1.000176	8.410E-10
6.041E-04	1.000169	9.461E-10
6.316E-04	1.000162	1.081E-09
6.649E-04	1.000155	1.262E-09
7.066E-04	1.000146	1.514E-09
7.612E-04	1.000136	1.892E-09
8.378E-04	1.000124	2.523E-09
9.590E-04	1.000108	3.785E-09
1.208E-03	1.000086	7.571E-09
1.252E-03	1.000083	8.413E-09
1.302E-03	1.000080	9.465E-09
1.361E-03	1.000077	1.082E-08
1.433E-03	1.000073	1.262E-08
1.523E-03	1.000069	1.515E-08
1.640E-03	1.000064	1.894E-08
1.806E-03	1.000058	2.526E-08
2.057E-03	1.000051	3.791E-08
2.606E-03	1.000040	7.596E-08

AMMONIUM SULFATE
(CRYSTAL MASS = 1.00E-13 GM . TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.578E-05	0.814688	1.377E-13
3.665E-05	0.833095	1.514E-13
3.765E-05	0.851314	1.682E-13
3.882E-05	0.869314	1.893E-13
4.022E-05	0.887062	2.163E-13
4.193E-05	0.904379	2.523E-13
4.409E-05	0.921048	3.028E-13
4.697E-05	0.936938	3.785E-13
4.842E-05	0.943209	4.206E-13
5.012E-05	0.949434	4.731E-13
5.214E-05	0.955496	5.407E-13
5.461E-05	0.961671	6.308E-13
5.773E-05	0.967747	7.570E-13
5.963E-05	0.970762	8.411E-13
6.185E-05	0.973845	9.462E-13
6.449E-05	0.976995	1.081E-12
6.770E-05	0.980115	1.262E-12
7.173E-05	0.983304	1.514E-12
7.705E-05	0.986533	1.892E-12
8.455E-05	0.989828	2.523E-12
9.649E-05	0.993208	3.785E-12
1.212E-04	0.996726	7.569E-12
1.255E-04	0.996996	8.410E-12
1.305E-04	0.997290	9.461E-12
1.364E-04	0.997606	1.081E-11
1.435E-04	0.997944	1.262E-11
1.525E-04	0.998302	1.514E-11
1.642E-04	0.998680	1.892E-11
1.807E-04	0.999073	2.523E-11
2.067E-04	0.999477	3.785E-11
2.604E-04	0.999875	7.569E-11
2.697E-04	0.999913	8.410E-11
2.805E-04	0.999950	9.461E-11
2.932E-04	0.999986	1.081E-10
3.087E-04	1.000020	1.261E-10

3.280E-04	1.000053	1.514E-10
3.533E-04	1.000083	1.892E-10
3.889E-04	1.000109	2.523E-10
4.452E-04	1.000128	3.784E-10
5.608E-04	1.000133	7.569E-10
5.809E-04	1.000132	8.410E-10
6.041E-04	1.000131	9.461E-10
6.316E-04	1.000128	1.081E-09
6.649E-04	1.000125	1.261E-09
7.066E-04	1.000122	1.514E-09
7.612E-04	1.000116	1.892E-09
8.378E-04	1.000109	2.523E-09
9.590E-04	1.000099	3.784E-09
1.208E-03	1.000081	7.569E-09
1.251E-03	1.000079	8.410E-09
1.302E-03	1.000076	9.461E-09
1.361E-03	1.000073	1.081E-08
1.433E-03	1.000070	1.262E-08
1.522E-03	1.000066	1.514E-08
1.640E-03	1.000062	1.892E-08
1.805E-03	1.000057	2.523E-08
2.066E-03	1.000050	3.785E-08
2.603E-03	1.000040	7.571E-08
2.696E-03	1.000038	8.413E-08
2.804E-03	1.000037	9.465E-08
2.932E-03	1.000035	1.082E-07
3.087E-03	1.000034	1.262E-07
3.280E-03	1.000032	1.515E-07
3.534E-03	1.000029	1.894E-07
3.890E-03	1.000027	2.526E-07
4.454E-03	1.000023	3.791E-07
5.615E-03	1.000019	7.596E-07

AMMONIUM SULFATE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.709E-05	0.813457	1.377E-12
7.896E-05	0.831862	1.514E-12
8.112E-05	0.850084	1.682E-12
8.364E-05	0.868092	1.893E-12
8.665E-05	0.885854	2.163E-12
9.033E-05	0.903194	2.523E-12
9.500E-05	0.919896	3.028E-12
1.012E-04	0.935833	3.785E-12
1.043E-04	0.942129	4.205E-12
1.080E-04	0.948382	4.731E-12
1.123E-04	0.954477	5.407E-12
1.177E-04	0.960690	6.308E-12
1.244E-04	0.966812	7.569E-12
1.285E-04	0.969854	8.410E-12
1.333E-04	0.972965	9.462E-12
1.389E-04	0.976148	1.081E-11
1.458E-04	0.979305	1.262E-11
1.545E-04	0.982537	1.514E-11
1.660E-04	0.985816	1.892E-11
1.922E-04	0.989171	2.523E-11
2.079E-04	0.992630	3.785E-11
2.611E-04	0.996263	7.569E-11
2.704E-04	0.996550	8.410E-11
2.811E-04	0.996860	9.461E-11
2.938E-04	0.997195	1.081E-10
3.092E-04	0.997553	1.261E-10
3.295E-04	0.997934	1.514E-10
3.537E-04	0.998338	1.892E-10
3.892E-04	0.998762	2.523E-10
4.454E-04	0.999205	3.784E-10
5.610E-04	0.999659	7.569E-10
5.810E-04	0.999705	8.410E-10
6.043E-04	0.999749	9.461E-10
6.318E-04	0.999794	1.081E-09
6.650E-04	0.999838	1.261E-09

7.067E-04	0.999891	1.514E-09
7.612E-04	0.999924	1.892E-09
8.378E-04	0.999964	2.523E-09
9.590E-04	1.000002	3.784E-09
1.208E-03	1.000033	7.569E-09
1.251E-03	1.000035	8.410E-09
1.302E-03	1.000037	9.461E-09
1.361E-03	1.000039	1.081E-08
1.433E-03	1.000041	1.261E-08
1.522E-03	1.000042	1.514E-08
1.640E-03	1.000042	1.892E-08
1.805E-03	1.000042	2.523E-08
2.066E-03	1.000040	3.784E-08
2.603E-03	1.000035	7.569E-08
2.695E-03	1.000034	8.410E-08
2.804E-03	1.000033	9.461E-08
2.932E-03	1.000032	1.081E-07
3.086E-03	1.000031	1.261E-07
3.280E-03	1.000029	1.514E-07
3.533E-03	1.000028	1.892E-07
3.889E-03	1.000025	2.523E-07
4.451E-03	1.000023	3.785E-07
5.609E-03	1.000018	7.571E-07
5.809E-03	1.000018	8.413E-07
6.042E-03	1.000017	9.465E-07
6.317E-03	1.000016	1.092E-06
6.650E-03	1.000015	1.262E-06
7.067E-03	1.000015	1.515E-06
7.614E-03	1.000014	1.894E-06
8.381E-03	1.000012	2.526E-06
9.595E-03	1.000011	3.791E-06
1.210E-02	1.000009	7.596E-06

AMMONIUM SULFATE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.661E-04	0.812885	1.376E-11
1.701E-04	0.831290	1.514E-11
1.748E-04	0.849513	1.682E-11
1.802E-04	0.867525	1.893E-11
1.867E-04	0.885294	2.163E-11
1.946E-04	0.902644	2.523E-11
2.047E-04	0.919361	3.028E-11
2.180E-04	0.935321	3.785E-11
2.[illegible]E-04	0.941628	4.205E-11
2.326E-04	0.947894	4.731E-11
2.420E-04	0.954005	5.407E-11
2.535E-04	0.960235	6.308E-11
2.680E-04	0.966378	7.569E-11
2.788E-04	0.969432	8.410E-11
2.871E-04	0.972557	9.461E-11
2.993E-04	0.975755	1.081E-10
3.142E-04	0.978929	1.262E-10
3.329E-04	0.982181	1.514E-10
3.576E-04	0.985483	1.892E-10
3.924E-04	0.988866	2.523E-10
4.479E-04	0.992362	3.784E-10
5.626E-04	0.996049	7.569E-10
5.825E-04	0.996343	8.410E-10
6.056E-04	0.996661	9.461E-10
6.330E-04	0.997004	1.081E-09
6.662E-04	0.997372	1.261E-09
7.077E-04	0.997763	1.514E-09
7.621E-04	0.998179	1.892E-09
8.385E-04	0.998618	2.523E-09
9.536E-04	0.999079	3.784E-09
1.209E-03	0.999559	7.569E-09
1.252E-03	0.999608	8.410E-09
1.302E-03	0.999656	9.461E-09
1.361E-03	0.999705	1.081E-08
1.433E-03	0.999754	1.261E-08

1.523E-03	0.999802	1.514E-09
1.640E-03	0.999850	1.892E-09
1.805E-03	0.999897	2.523E-09
2.066E-03	0.999943	3.784E-09
2.503E-03	0.999986	7.569E-09
2.696E-03	0.999990	8.409E-09
2.804E-03	0.999994	9.461E-09
2.932E-03	0.999998	1.081E-07
3.086E-03	1.000002	1.261E-07
3.280E-03	1.000005	1.514E-07
3.533E-03	1.000008	1.892E-07
3.888E-03	1.000011	2.523E-07
4.451E-03	1.000013	3.784E-07
5.608E-03	1.000013	7.569E-07
5.809E-03	1.000013	8.410E-07
6.041E-03	1.000013	9.461E-07
6.316E-03	1.000013	1.081E-06
6.649E-03	1.000013	1.261E-06
7.066E-03	1.000012	1.514E-06
7.612E-03	1.000012	1.892E-06
8.378E-03	1.000011	2.523E-06
9.590E-03	1.000010	3.785E-06
1.208E-02	1.000009	7.571E-06
1.252E-02	1.000008	8.412E-06
1.302E-02	1.000008	9.464E-06
1.361E-02	1.000007	1.082E-05
1.433E-02	1.000007	1.262E-05
1.523E-02	1.000007	1.515E-05
1.640E-02	1.000006	1.894E-05
1.806E-02	1.000006	2.526E-05
2.067E-02	1.000005	3.791E-05
2.606E-02	1.000004	7.595E-05

AMMONIUM SULFATE
(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.578E-04	0.812621	1.376E-10
3.665E-04	0.831025	1.514E-10
3.765E-04	0.849249	1.682E-10
3.882E-04	0.867262	1.892E-10
4.022E-04	0.885034	2.163E-10
4.193E-04	0.902389	2.523E-10
4.409E-04	0.919113	3.028E-10
4.697E-04	0.935084	3.785E-10
4.842E-04	0.941396	4.205E-10
5.012E-04	0.947668	4.731E-10
5.214E-04	0.953785	5.407E-10
5.461E-04	0.960024	6.308E-10
5.773E-04	0.966177	7.569E-10
5.963E-04	0.969237	8.410E-10
6.185E-04	0.972368	9.461E-10
6.449E-04	0.975572	1.081E-09
6.769E-04	0.978755	1.261E-09
7.173E-04	0.982015	1.514E-09
7.704E-04	0.985328	1.892E-09
8.455E-04	0.988725	2.523E-09
9.649E-04	0.992238	3.784E-09
1.212E-03	0.995950	7.569E-09
1.255E-03	0.996247	8.410E-09
1.305E-03	0.996569	9.461E-09
1.364E-03	0.996916	1.081E-08
1.435E-03	0.997287	1.261E-08
1.525E-03	0.997684	1.514E-08
1.642E-03	0.998105	1.892E-08
1.807E-03	0.998551	2.523E-08
2.067E-03	0.999021	3.784E-08
2.604E-03	0.999513	7.568E-08
2.697E-03	0.999563	8.409E-08
2.805E-03	0.999613	9.461E-08
2.932E-03	0.999664	1.081E-07
3.087E-03	0.999714	1.261E-07

3.280E-03	0.999765	1.514E-07
3.533E-03	0.999816	1.892E-07
3.889E-03	0.999866	2.523E-07
4.451E-03	0.999916	3.784E-07
5.608E-03	0.999965	7.568E-07
5.809E-03	0.999970	8.409E-07
6.041E-03	0.999974	9.460E-07
6.316E-03	0.999979	1.081E-06
6.649E-03	0.999983	1.261E-06
7.066E-03	0.999988	1.514E-06
7.611E-03	0.999992	1.892E-06
8.377E-03	0.999996	2.523E-06
9.590E-03	1.000000	3.784E-06
1.208E-02	1.000003	7.568E-06
1.251E-02	1.000004	8.409E-06
1.302E-02	1.000004	9.461E-06
1.361E-02	1.000004	1.081E-05
1.433E-02	1.000004	1.261E-05
1.522E-02	1.000004	1.514E-05
1.640E-02	1.000004	1.892E-05
1.805E-02	1.000004	2.523E-05
2.066E-02	1.000004	3.785E-05
2.603E-02	1.000003	7.571E-05
2.696E-02	1.000003	8.412E-05
2.804E-02	1.000003	9.464E-05
2.932E-02	1.000003	1.082E-04
3.087E-02	1.000003	1.262E-04
3.280E-02	1.000003	1.515E-04
3.534E-02	1.000003	1.894E-04
3.890E-02	1.000003	2.526E-04
4.454E-02	1.000002	3.791E-04
5.615E-02	1.000002	7.595E-04

AMMONIUM SULFATE

(CRYSTAL MASS = 1.00E-09 GM . TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.709E-04	0.812498	1.376E-09
7.896E-04	0.830902	1.514E-09
8.112E-04	0.849126	1.682E-09
8.364E-04	0.867140	1.892E-09
8.665E-04	0.884914	2.163E-09
9.033E-04	0.902271	2.523E-09
9.499E-04	0.918998	3.028E-09
1.012E-03	0.934974	3.785E-09
1.043E-03	0.941288	4.205E-09
1.080E-03	0.947563	4.731E-09
1.123E-03	0.953684	5.406E-09
1.177E-03	0.959926	6.307E-09
1.244E-03	0.966084	7.569E-09
1.285E-03	0.969146	8.410E-09
1.333E-03	0.972280	9.461E-09
1.389E-03	0.975488	1.081E-08
1.458E-03	0.978674	1.261E-08
1.545E-03	0.981939	1.514E-08
1.660E-03	0.985257	1.892E-08
1.822E-03	0.988659	2.523E-08
2.079E-03	0.992180	3.784E-08
2.611E-03	0.995903	7.569E-08
2.704E-03	0.996202	8.409E-08
2.811E-03	0.996526	9.461E-08
2.938E-03	0.996875	1.081E-07
3.092E-03	0.997248	1.261E-07
3.285E-03	0.997647	1.514E-07
3.537E-03	0.998071	1.892E-07
3.892E-03	0.998520	2.523E-07
4.454E-03	0.998994	3.784E-07
5.610E-03	0.999491	7.568E-07
5.810E-03	0.999542	8.409E-07
6.043E-03	0.999593	9.460E-07
6.317E-03	0.999645	1.081E-06
6.650E-03	0.999696	1.261E-06

7.067E-03	0.999748	1.514E-06
7.612E-03	0.999800	1.892E-06
8.378E-03	0.999852	2.523E-06
9.590E-03	0.999903	3.784E-06
1.208E-02	0.999955	7.568E-06
1.251E-02	0.999960	8.409E-06
1.302E-02	0.999965	9.460E-06
1.361E-02	0.999970	1.081E-05
1.433E-02	0.999975	1.261E-05
1.522E-02	0.999980	1.514E-05
1.640E-02	0.999985	1.892E-05
1.905E-02	0.999990	2.523E-05
2.066E-02	0.999994	3.784E-05
2.603E-02	0.999999	7.568E-05
2.696E-02	0.999999	8.409E-05
2.804E-02	0.999999	9.460E-05
2.932E-02	1.000000	1.081E-04
3.086E-02	1.000000	1.261E-04
3.280E-02	1.000000	1.514E-04
3.533E-02	1.000001	1.892E-04
3.888E-02	1.000001	2.523E-04
4.451E-02	1.000001	3.785E-04
5.609E-02	1.000001	7.571E-04
5.809E-02	1.000001	8.412E-04
6.042E-02	1.000001	9.464E-04
6.317E-02	1.000001	1.082E-03
6.650E-02	1.000001	1.262E-03
7.067E-02	1.000001	1.515E-03
7.613E-02	1.000001	1.894E-03
8.380E-02	1.000001	2.526E-03
9.595E-02	1.000001	3.791E-03
1.210E-01	1.000001	7.595E-03

[illegible] TEMPERATURE 20C)

[illegible]	[illegible]	WATER GAIN(DIGM)
[illegible]	0.912491	1.376E-09
[illegible]	[illegible]	1.514E-09
[illegible]	[illegible]	1.682E-09
[illegible]	[illegible]	1.892E-09
[illegible]	[illegible]	2.163E-09
[illegible]	[illegible]	2.523E-09
[illegible]	[illegible]	3.028E-09
[illegible]	0.936422	3.784E-09
[illegible]	0.941238	4.205E-09
4.732E-03	0.947514	4.731E-09
[illegible]	0.955536	5.406E-09
[illegible]	0.965981	6.307E-09
[illegible]	0.976301	7.569E-09
2.289E-03	0.969104	8.410E-09
2.371E-03	0.972239	9.461E-09
2.938E-03	0.975448	1.081E-07
3.142E-03	0.978635	1.261E-07
3.329E-03	0.981903	1.514E-07
3.570E-03	0.985223	1.892E-07
3.924E-03	0.988623	2.523E-07
4.479E-03	0.992153	3.784E-07
5.926E-03	0.995642	7.568E-07
5.829E-03	0.996191	8.409E-07
6.050E-03	0.996506	9.460E-07
6.340E-03	0.996855	1.081E-06
6.667E-03	0.997230	1.261E-06
7.077E-03	0.997630	1.514E-06
7.621E-03	0.998055	1.892E-06
8.335E-03	0.998506	2.523E-06
9.596E-03	0.998981	3.784E-06
1.209E-02	0.999481	7.568E-06
1.252E-02	0.999532	8.409E-06
1.302E-02	0.999584	9.460E-06
1.361E-02	0.999636	1.081E-05
1.433E-02	0.999691	1.261E-05

1.522E-02	0.999740	1.514E-05
1.640E-02	0.999792	1.892E-05
1.805E-02	0.999845	2.523E-05
2.066E-02	0.999897	3.784E-05
2.603E-02	0.999950	7.568E-05
2.696E-02	0.999955	8.409E-05
2.804E-02	0.999961	9.460E-05
2.932E-02	0.999966	1.081E-04
3.086E-02	0.999971	1.261E-04
3.280E-02	0.999976	1.514E-04
3.533E-02	0.999981	1.892E-04
3.888E-02	0.999986	2.523E-04
4.451E-02	0.999992	3.784E-04
5.608E-02	0.999996	7.568E-04
5.808E-02	0.999997	8.409E-04
6.041E-02	0.999997	9.460E-04
6.316E-02	0.999998	1.081E-03
6.649E-02	0.999998	1.261E-03
7.066E-02	0.999999	1.514E-03
7.611E-02	0.999999	1.892E-03
8.377E-02	1.000000	2.523E-03
9.590E-02	1.000000	3.785E-03
1.208E-01	1.000000	7.570E-03
1.252E-01	1.000000	8.412E-03
1.302E-01	1.000000	9.464E-03
1.361E-01	1.000000	1.082E-02
1.433E-01	1.000000	1.262E-02
1.523E-01	1.000000	1.515E-02
1.640E-01	1.000000	1.894E-02
1.805E-01	1.000000	2.526E-02
2.067E-01	1.000000	3.791E-02
2.606E-01	1.000000	7.595E-02

AMMONIUM SULFATE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.578E-03	0.812414	1.376E-07
3.665E-03	0.830818	1.514E-07
3.765E-03	0.849042	1.682E-07
3.882E-03	0.867057	1.892E-07
4.022E-03	0.884832	2.163E-07
4.193E-03	0.902190	2.523E-07
4.409E-03	0.918920	3.028E-07
4.697E-03	0.934899	3.784E-07
4.842E-03	0.941215	4.205E-07
5.012E-03	0.947492	4.730E-07
5.214E-03	0.953614	5.406E-07
5.461E-03	0.959860	6.307E-07
5.773E-03	0.966020	7.568E-07
5.963E-03	0.969084	8.409E-07
6.185E-03	0.972221	9.461E-07
6.448E-03	0.975430	1.081E-06
6.769E-03	0.978619	1.261E-06
7.173E-03	0.981887	1.514E-06
7.704E-03	0.985208	1.892E-06
8.455E-03	0.988615	2.523E-06
9.649E-03	0.992141	3.784E-06
1.212E-02	0.995872	7.568E-06
1.255E-02	0.996172	8.409E-06
1.305E-02	0.996497	9.460E-06
1.364E-02	0.996847	1.081E-05
1.435E-02	0.997222	1.261E-05
1.525E-02	0.997622	1.514E-05
1.642E-02	0.998048	1.892E-05
1.807E-02	0.998499	2.523E-05
2.067E-02	0.998975	3.784E-05
2.604E-02	0.999476	7.568E-05
2.697E-02	0.999528	8.409E-05
2.805E-02	0.999580	9.460E-05
2.932E-02	0.999632	1.081E-04
3.087E-02	0.999684	1.261E-04

3.280E-02	0.999736	1.514E-04
3.533E-02	0.999789	1.892E-04
3.889E-02	0.999842	2.523E-04
4.451E-02	0.999895	3.784E-04
5.608E-02	0.999948	7.568E-04
5.809E-02	0.999953	8.409E-04
6.041E-02	0.999959	9.460E-04
6.316E-02	0.999964	1.081E-03
6.649E-02	0.999969	1.261E-03
7.066E-02	0.999974	1.514E-03
7.611E-02	0.999980	1.892E-03
8.377E-02	0.999985	2.523E-03
9.589E-02	0.999990	3.784E-03
1.208E-01	0.999995	7.568E-03
1.251E-01	0.999996	8.409E-03
1.301E-01	0.999996	9.460E-03
1.361E-01	0.999997	1.081E-02
1.432E-01	0.999997	1.261E-02
1.522E-01	0.999998	1.514E-02
1.640E-01	0.999998	1.892E-02
1.805E-01	0.999999	2.523E-02
2.066E-01	0.999999	3.784E-02
2.603E-01	1.000000	7.570E-02
2.696E-01	1.000000	8.412E-02
2.804E-01	1.000000	9.464E-02
2.932E-01	1.000000	1.082E-01
3.087E-01	1.000000	1.262E-01
3.280E-01	1.000000	1.515E-01
3.534E-01	1.000000	1.894E-01
3.890E-01	1.000000	2.525E-01
4.454E-01	1.000000	3.790E-01
5.615E-01	1.000000	7.595E-01

AMMONIUM SULFATE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 298)

RADIUS (CM)	SATURATION RATIO	WATER SATURATION (GM)
7.70?E-??	0.912402	1.376E-06
7.896E-??	0.930806	1.514E-06
8.112E-??	0.949030	1.662E-06
8.364E-??	0.967045	1.892E-06
8.658E-??	0.984829	2.162E-06
9.043E-??	0.992178	2.523E-06
9.4?0E-??	0.?13900	3.027E-06
1.012E-??	0.?34????	3.784E-06
1.?4?E-??	0.?41?0?	4.205E-06
1.?5?E-??	0.?47441	4.730E-06
1.?2?E-??	0.?53604	5.404E-06
1.?77E-??	0.?59???	6.307E-06
1.?44E-??	0.966011	7.568E-06
1.?35E-??	0.??????	8.409E-06
1.332E-??	0.972212	9.460E-06
1.?19E-??	0.975422	1.081E-05
1.???E-??	0.978611	1.261E-05
1.???E-??	0.981?7?	1.514E-05
1.???E-??	0.?85201	1.892E-05
1.?21E-??	0.988604	2.523E-05
2.?7?E-??	0.992135	3.784E-05
2.?11E-??	0.?95?67	7.568E-05
2.704E-??	0.?96147	8.409E-05
2.811E-??	0.?96492	9.460E-05
2.?38E-??	0.?96842	1.081E-04
2.??2E-??	0.?37218	1.261E-04
3.235E-??	0.?97619	1.514E-04
3.537E-??	0.?98045	1.892E-04
3.?92E-??	0.?98466	2.523E-04
4.454E-??	0.?98972	3.784E-04
5.?10E-??	0.?99474	7.568E-04
5.810E-??	0.?99?2?	8.409E-04
6.?42E-??	0.?99578	9.460E-04
6.?1?E-??	0.?99630	1.081E-03
6.?30E-??	0.?99?12	1.?61E-03

7.867E-02	0.999734	1.514E-03
7.912E-02	0.999787	1.892E-03
8.373E-02	0.999840	2.523E-03
9.570E-02	0.999884	3.784E-03
1.208E-01	0.999947	7.569E-03
1.251E-01	0.999962	9.408E-03
1.302E-01	0.999968	9.460E-03
1.351E-01	0.999983	1.081E-02
1.432E-01	0.999988	1.261E-02
1.522E-01	0.999994	1.514E-02
1.640E-01	0.999999	1.892E-02
1.805E-01	0.999994	2.523E-02
2.066E-01	0.999990	3.784E-02
2.573E-01	0.999995	7.569E-02
2.796E-01	0.999996	9.409E-02
2.804E-01	0.999996	9.460E-02
2.932E-01	0.999997	1.081E-01
3.086E-01	0.999997	1.261E-01
3.280E-01	0.999998	1.514E-01
3.533E-01	0.999998	1.892E-01
3.880E-01	0.999999	2.523E-01
4.451E-01	0.999999	3.784E-01
5.508E-01	1.000000	7.570E-01
5.809E-01	1.000000	8.411E-01
6.042E-01	1.000000	9.463E-01
6.317E-01	1.000000	1.082E 00
6.650E-01	1.000000	1.262E 00
7.067E-01	1.000000	1.515E 00
7.613E-01	1.000000	1.894E 00
8.380E-01	1.000000	2.525E 00
9.595E-01	1.000000	3.790E 00
1.210E 00	1.000000	7.994E 00

AMMONIUM SULFATE

PERCENTAGE	MOLALITY	DENSITY
0.50	7.567	1.2825
0.45	6.191	1.2552
0.40	5.045	1.2277
0.35	4.075	1.2000
0.30	3.243	1.1721
0.24	2.390	1.1383
0.22	2.134	1.1269
0.20	1.892	1.1154
0.18	1.661	1.1039
0.16	1.441	1.0924
0.14	1.232	1.0808
0.12	1.032	1.0691
0.10	0.841	1.0574
0.08	0.658	1.0456
0.06	0.483	1.0338
0.04	0.315	1.0220
0.02	0.154	1.0101
0.01	0.076	1.0041
0.00	0.000	1.0000

(13) BARIUM CHLORIDE

BARIUM CHLORIDE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
208.27	3.856	3.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.5574E-05	1.8362E-06
1.00E-15	7.2289E-05	3.9560E-06
1.00E-14	3.3554E-04	8.5230E-06
1.00E-13	1.5574E-03	1.8362E-05
1.00E-12	7.2289E-03	3.9560E-05
1.00E-11	3.3554E-02	8.5230E-05
1.00E-10	1.5574E-01	1.8362E-04
1.00E-09	7.2289E-01	3.9560E-04
1.00E-08	3.3554E 00	8.5230E-04
1.00E-07	1.5574E 01	1.8362E-03
1.00E-06	7.2289E 01	3.9560E-03

BARIUM CHLORIDE
(TWO-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
1.8000	0.90153	3.36637
1.6000	0.91447	3.24490
1.4000	0.92699	3.12288
1.2000	0.93921	2.99390
1.0000	0.95078	2.87392
0.9000	0.95633	2.81641
0.8000	0.96167	2.76570
0.7000	0.96689	2.71546
0.6000	0.97196	2.66877
0.5000	0.97692	2.62249
0.4000	0.98173	2.58274
0.3000	0.98643	2.54636
0.2000	0.99099	2.52239
0.1000	0.99545	2.53477
0.0900	0.99583	2.58149
0.0800	0.99623	2.62816
0.0700	0.99664	2.67480
0.0600	0.99707	2.72139
0.0500	0.99751	2.76794
0.0400	0.99798	2.81444
0.0300	0.99846	2.86090
0.0200	0.99895	2.90732
0.0100	0.99947	2.95368
0.0090	0.99952	2.95830
0.0080	0.99957	2.96292
0.0070	0.99963	2.96756
0.0060	0.99968	2.97220
0.0050	0.99973	2.97677
0.0040	0.99979	2.98143
0.0030	0.99984	2.98599
0.0020	0.99989	2.99073
0.0019	0.99990	2.99116
0.0018	0.99990	2.99164
0.0017	0.99991	2.99194
0.0016	0.99991	2.99253

0.0015	0.99992	2.99293
0.0014	0.99992	2.99338
0.0013	0.99993	2.99391
0.0012	0.99994	2.99419
0.0011	0.99994	2.99490
0.0010	0.99995	2.99533
0.0009	0.99995	2.99541
0.0008	0.99996	2.99603
0.0007	0.99996	2.99623
0.0006	0.99997	2.99720
0.0005	0.99997	2.99692
0.0004	0.99999	2.99753
0.0003	0.99998	2.99855
0.0002	0.99999	2.99855
0.0001	0.99999	2.99859

BARIUM CHLORIDE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.065E-06	0.921429	2.669E-16
4.222E-06	0.934213	3.002E-16
4.407E-06	0.946530	3.431E-16
4.631E-06	0.958424	4.003E-16
4.912E-06	0.969485	4.804E-16
5.082E-06	0.974707	5.337E-16
5.281E-06	0.979643	6.004E-16
5.515E-06	0.984379	6.862E-16
5.800E-06	0.988862	8.006E-16
6.156E-06	0.993102	9.607E-16
6.624E-06	0.997009	1.201E-15
7.282E-06	1.000549	1.601E-15
8.325E-06	1.003545	2.402E-15
1.048E-05	1.005586	4.803E-15
1.085E-05	1.005630	5.337E-15
1.128E-05	1.005662	6.004E-15
1.178E-05	1.005677	6.862E-15
1.241E-05	1.005667	8.005E-15
1.319E-05	1.005619	9.606E-15
1.421E-05	1.005513	1.201E-14
1.563E-05	1.005314	1.601E-14
1.789E-05	1.004953	2.402E-14
2.254E-05	1.004237	4.803E-14
2.335E-05	1.004125	5.337E-14
2.428E-05	1.004001	6.004E-14
2.533E-05	1.003861	6.861E-14
2.673E-05	1.003702	8.005E-14
2.840E-05	1.003518	9.606E-14
3.059E-05	1.003300	1.201E-13
3.367E-05	1.003033	1.601E-13
3.854E-05	1.002682	2.401E-13
4.856E-05	1.002160	4.803E-13
5.030E-05	1.002099	5.337E-13
5.231E-05	1.002012	6.004E-13
5.459E-05	1.001928	6.861E-13

5.757E-05	1.001835	8.005E-13
6.118E-05	1.001730	9.606E-13
6.591E-05	1.001610	1.201E-12
7.254E-05	1.001466	1.601E-12
8.304E-05	1.001284	2.401E-12
1.046E-04	1.001022	4.803E-12
1.084E-04	1.000987	5.337E-12
1.127E-04	1.000949	6.004E-12
1.178E-04	1.000908	6.861E-12
1.240E-04	1.000863	8.005E-12
1.318E-04	1.000813	9.606E-12
1.420E-04	1.000755	1.201E-11
1.563E-04	1.000686	1.601E-11
1.789E-04	1.000600	2.402E-11
2.254E-04	1.000476	4.804E-11
2.335E-04	1.000460	5.338E-11
2.428E-04	1.000442	6.006E-11
2.539E-04	1.000423	6.864E-11
2.673E-04	1.000402	8.009E-11
2.840E-04	1.000378	9.612E-11
3.060E-04	1.000351	1.202E-10
3.368E-04	1.000319	1.603E-10
3.856E-04	1.000278	2.406E-10
4.962E-04	1.000221	4.820E-10

BARIUM CHLORIDE

(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.759E-06	0.910741	2.669E-15
9.095E-06	0.923581	3.002E-15
9.493E-06	0.936008	3.431E-15
9.977E-06	0.948092	4.003E-15
1.058E-05	0.959414	4.803E-15
1.095E-05	0.964817	5.337E-15
1.138E-05	0.969970	6.004E-15
1.188E-05	0.974969	6.862E-15
1.250E-05	0.979770	8.005E-15
1.326E-05	0.984400	9.606E-15
1.427E-05	0.988792	1.201E-14
1.569E-05	0.992956	1.601E-14
1.794E-05	0.996800	2.402E-14
2.257E-05	1.000144	4.803E-14
2.337E-05	1.000368	5.337E-14
2.431E-05	1.000595	6.004E-14
2.541E-05	1.000824	6.861E-14
2.675E-05	1.001050	8.005E-14
2.842E-05	1.001267	9.606E-14
3.061E-05	1.001467	1.201E-13
3.368E-05	1.001634	1.601E-13
3.855E-05	1.001734	2.401E-13
4.957E-05	1.001679	4.803E-13
5.030E-05	1.001655	5.337E-13
5.232E-05	1.001626	6.004E-13
5.470E-05	1.001589	6.861E-13
5.758E-05	1.001544	8.005E-13
6.119E-05	1.001488	9.606E-13
6.591E-05	1.001415	1.201E-12
7.254E-05	1.001320	1.601E-12
8.304E-05	1.001186	2.401E-12
1.046E-04	1.000973	4.803E-12
1.084E-04	1.000943	5.336E-12
1.127E-04	1.000910	6.003E-12
1.178E-04	1.000874	6.861E-12

1.240E-04	1.000834	8.005E-12
1.318E-04	1.000788	9.606E-12
1.420E-04	1.000735	1.201E-11
1.563E-04	1.000671	1.601E-11
1.789E-04	1.000590	2.401E-11
2.254E-04	1.000471	4.803E-11
2.335E-04	1.000455	5.336E-11
2.428E-04	1.000438	6.004E-11
2.539E-04	1.000419	6.861E-11
2.672E-04	1.000399	8.005E-11
2.840E-04	1.000376	9.606E-11
3.059E-04	1.000349	1.201E-10
3.367E-04	1.000317	1.601E-10
3.854E-04	1.000278	2.402E-10
4.856E-04	1.000221	4.804E-10
5.030E-04	1.000213	5.338E-10
5.232E-04	1.000205	6.006E-10
5.470E-04	1.000196	6.864E-10
5.758E-04	1.000186	8.009E-10
6.119E-04	1.000175	9.612E-10
6.592E-04	1.000163	1.202E-09
7.257E-04	1.000148	1.603E-09
8.308E-04	1.000129	2.406E-09
1.047E-03	1.000103	4.820E-09

BARIUM CHLORIDE

[illegible] MASS [illegible] TEMPERATURE = 20C)

[illegible] MASS	[illegible]	WATER GAINED(GM)
1.847E-05	0.905822	2.669E-14
1.959E-05	0.918688	3.002E-14
2.045E-05	0.931165	3.431E-14
2.149E-05	0.943319	4.003E-14
2.280E-05	0.954776	4.803E-14
2.353E-05	0.960250	5.337E-14
2.451E-05	0.965513	6.004E-14
2.560E-05	0.970632	6.862E-14
2.692E-05	0.975579	8.005E-14
2.857E-05	0.980387	9.606E-14
3.075E-05	0.985001	1.201E-13
3.330E-05	0.989451	1.601E-13
3.864E-05	0.993685	2.401E-13
4.862E-05	0.997629	4.803E-13
5.036E-05	0.997935	5.337E-13
5.237E-05	0.998252	6.004E-13
5.474E-05	0.998579	6.861E-13
5.762E-05	0.998914	8.005E-13
6.122E-05	0.999254	9.606E-13
6.594E-05	0.999595	1.201E-12
7.257E-05	0.999930	1.601E-12
8.306E-05	1.000243	2.401E-12
1.046E-04	1.000494	4.803E-12
1.084E-04	1.000511	5.336E-12
1.127E-04	1.000525	6.003E-12
1.178E-04	1.000537	6.861E-12
1.240E-04	1.000544	8.005E-12
1.318E-04	1.000547	9.605E-12
1.420E-04	1.000542	1.201E-11
1.563E-04	1.000526	1.601E-11
1.789E-04	1.000493	2.401E-11
2.254E-04	1.000423	4.803E-11
2.335E-04	1.000412	5.336E-11
2.428E-04	1.000399	6.003E-11
2.539E-04	1.000385	6.861E-11

2.672E-04	1.000370	6.004E-11
2.340E-04	1.000351	9.605E-11
3.059E-04	1.000330	1.201E-10
3.367E-04	1.000303	1.601E-10
3.854E-04	1.000268	2.401E-10
4.356E-04	1.000216	4.803E-10
5.030E-04	1.000209	5.336E-10
5.231E-04	1.000201	6.003E-10
5.469E-04	1.000183	6.861E-10
5.757E-04	1.000183	8.005E-10
6.119E-04	1.000173	9.606E-10
6.591E-04	1.000161	1.201E-09
7.254E-04	1.000146	1.601E-09
8.304E-04	1.000129	2.402E-09
1.045E-03	1.000102	4.804E-09
1.134E-03	1.000092	5.338E-09
1.127E-03	1.000095	6.006E-09
1.178E-03	1.000091	6.864E-09
1.241E-03	1.000086	8.009E-09
1.318E-03	1.000081	9.612E-09
1.426E-03	1.000075	1.202E-08
1.563E-03	1.000069	1.603E-08
1.790E-03	1.000060	2.406E-08
2.257E-03	1.000048	4.820E-08

BARIUM CHLORIDE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.056E-05	0.903548	2.669E-13
4.222E-05	0.916425	3.002E-13
4.406E-05	0.928925	3.431E-13
4.631E-05	0.941117	4.003E-13
4.912E-05	0.952630	4.803E-13
5.082E-05	0.958153	5.337E-13
5.280E-05	0.963452	6.004E-13
5.515E-05	0.968626	6.862E-13
5.800E-05	0.973639	8.005E-13
6.150E-05	0.978529	9.606E-13
6.624E-05	0.983246	1.201E-12
7.282E-05	0.987829	1.601E-12
8.325E-05	0.992242	2.401E-12
1.048E-04	0.996463	4.803E-12
1.085E-04	0.996807	5.336E-12
1.128E-04	0.997166	6.003E-12
1.179E-04	0.997539	6.861E-12
1.241E-04	0.997924	8.005E-12
1.319E-04	0.998321	9.605E-12
1.421E-04	0.998727	1.201E-11
1.563E-04	0.999140	1.601E-11
1.789E-04	0.999552	2.401E-11
2.254E-04	0.999944	4.803E-11
2.335E-04	0.999930	5.336E-11
2.428E-04	1.000015	6.003E-11
2.538E-04	1.000049	6.861E-11
2.673E-04	1.000080	8.004E-11
2.840E-04	1.000110	9.605E-11
3.059E-04	1.000136	1.201E-10
3.367E-04	1.000158	1.601E-10
3.854E-04	1.000171	2.401E-10
4.356E-04	1.000167	4.803E-10
5.030E-04	1.000145	5.336E-10
5.231E-04	1.000162	6.003E-10
5.469E-04	1.000159	6.861E-10

5.757E-04	1.000154	3.004E-10
6.118E-04	1.000149	5.635E-10
6.590E-04	1.000141	1.201E-09
7.254E-04	1.000132	1.681E-09
8.303E-04	1.000119	2.401E-09
1.046E-03	1.000097	4.803E-09
1.084E-03	1.000094	5.285E-09
1.127E-03	1.000091	6.005E-09
1.178E-03	1.000087	6.851E-09
1.240E-03	1.000083	8.005E-09
1.318E-03	1.000079	9.605E-09
1.420E-03	1.000073	1.201E-08
1.563E-03	1.000067	1.601E-08
1.789E-03	1.000059	2.402E-08
2.254E-03	1.000047	4.804E-08
2.335E-03	1.000046	5.333E-08
2.428E-03	1.000044	6.006E-08
2.539E-03	1.000042	6.864E-08
2.673E-03	1.000040	8.009E-08
2.840E-03	1.000038	9.612E-08
3.060E-03	1.000035	1.202E-07
3.363E-03	1.000032	1.603E-07
3.856E-03	1.000028	2.405E-07
4.862E-03	1.000022	4.820E-07

BARIUM CHLORIDE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.759E-05	0.902495	2.668E-12
9.999E-05	0.915377	3.002E-12
1.023E-04	0.927887	3.431E-12
1.047E-04	0.940096	4.003E-12
1.059E-04	0.951636	4.803E-12
1.095E-04	0.957176	5.337E-12
1.131E-04	0.962496	6.004E-12
1.188E-04	0.967696	6.861E-12
1.249E-04	0.972740	8.005E-12
1.326E-04	0.977668	9.606E-12
1.427E-04	0.982433	1.201E-11
1.569E-04	0.987076	1.601E-11
1.794E-04	0.991573	2.401E-11
2.257E-04	0.995922	4.803E-11
2.337E-04	0.996285	5.336E-11
2.431E-04	0.996663	6.003E-11
2.541E-04	0.997056	6.861E-11
2.674E-04	0.997465	8.004E-11
2.842E-04	0.997888	9.605E-11
3.061E-04	0.998325	1.201E-10
3.368E-04	0.998774	1.601E-10
3.855E-04	0.999231	2.401E-10
4.857E-04	0.999689	4.803E-10
5.030E-04	0.999734	5.336E-10
5.231E-04	0.999778	6.003E-10
5.469E-04	0.999822	6.861E-10
5.758E-04	0.999865	8.004E-10
6.118E-04	0.999907	9.605E-10
6.591E-04	0.999948	1.201E-09
7.254E-04	0.999987	1.601E-09
8.304E-04	1.000022	2.401E-09
1.046E-03	1.000049	4.802E-09
1.084E-03	1.000051	5.336E-09
1.127E-03	1.000052	6.003E-09
1.178E-03	1.000053	6.861E-09

1.240E-03	1.000054	8.004E-09
1.318E-03	1.000055	9.605E-09
1.420E-03	1.000054	1.201E-08
1.563E-03	1.000053	1.601E-08
1.789E-03	1.000049	2.401E-08
2.254E-03	1.000042	4.802E-08
2.334E-03	1.000041	5.336E-08
2.428E-03	1.000040	6.003E-08
2.538E-03	1.000039	6.861E-08
2.672E-03	1.000037	8.004E-08
2.840E-03	1.000035	9.605E-08
3.059E-03	1.000033	1.201E-07
3.367E-03	1.000030	1.601E-07
3.854E-03	1.000027	2.402E-07
4.856E-03	1.000022	4.804E-07
5.030E-03	1.000021	5.338E-07
5.232E-03	1.000020	6.005E-07
5.470E-03	1.000019	6.864E-07
5.758E-03	1.000018	8.008E-07
6.119E-03	1.000017	9.611E-07
6.592E-03	1.000016	1.202E-06
7.256E-03	1.000015	1.603E-06
8.308E-03	1.000013	2.405E-06
1.047E-02	1.000010	4.819E-06

BARIUM CHLORIDE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.887E-04	0.902006	2.668E-11
1.959E-04	0.914891	3.002E-11
2.045E-04	0.927406	3.431E-11
2.149E-04	0.939623	4.002E-11
2.280E-04	0.951175	4.803E-11
2.359E-04	0.956723	5.337E-11
2.451E-04	0.962053	6.004E-11
2.560E-04	0.967264	6.861E-11
2.692E-04	0.972323	8.005E-11
2.857E-04	0.977269	9.605E-11
3.074E-04	0.982055	1.201E-10
3.380E-04	0.986727	1.601E-10
3.864E-04	0.991263	2.401E-10
4.862E-04	0.995672	4.803E-10
5.035E-04	0.996042	5.336E-10
5.236E-04	0.996429	6.003E-10
5.474E-04	0.996832	6.861E-10
5.762E-04	0.997252	8.004E-10
6.122E-04	0.997687	9.605E-10
6.594E-04	0.998138	1.201E-09
7.257E-04	0.998603	1.601E-09
8.306E-04	0.999082	2.401E-09
1.046E-03	0.999571	4.802E-09
1.084E-03	0.999620	5.336E-09
1.127E-03	0.999668	6.003E-09
1.178E-03	0.999717	6.861E-09
1.240E-03	0.999765	8.004E-09
1.318E-03	0.999813	9.605E-09
1.420E-03	0.999861	1.201E-08
1.563E-03	0.999907	1.601E-08
1.789E-03	0.999952	2.401E-08
2.254E-03	0.999994	4.802E-08
2.334E-03	0.999997	5.336E-08
2.428E-03	1.000001	6.003E-08
2.538E-03	1.000005	6.860E-08

{NOT REPRODUCIBLE

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

CALCIUM CHLORIDE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

[illegible]	SATURATION RATIO	WATER GAINED(GM)
[illegible]	[illegible]	[illegible]
4.221E-04	0.914665	3.002E-10
[illegible]	0.927183	3.431E-10
4.931E-04	0.939403	4.002E-10
4.912E-04	0.950961	4.803E-10
5.082E-04	0.956513	5.336E-10
5.230E-04	0.961647	6.003E-10
5.515E-04	0.967064	6.861E-10
5.799E-04	0.972130	8.004E-10
6.156E-04	0.977084	9.605E-10
6.624E-04	0.981881	1.201E-09
7.282E-04	0.986565	1.601E-09
8.325E-04	0.991119	2.401E-09
1.048E-03	0.995555	4.802E-09
1.035E-03	0.995930	5.336E-09
1.128E-03	0.996321	6.003E-09
1.179E-03	0.996728	6.861E-09
1.241E-03	0.997153	8.004E-09
1.319E-03	0.997594	9.605E-09
1.421E-03	0.998051	1.201E-08
1.563E-03	0.998525	1.601E-08
1.789E-03	0.999013	2.401E-08
2.254E-03	0.999516	4.802E-08
2.335E-03	0.999567	5.336E-08
2.428E-03	0.999617	6.003E-08
2.539E-03	0.999668	6.860E-08
2.672E-03	0.999719	8.004E-08
2.840E-03	0.999770	9.605E-08
3.059E-03	0.999820	1.201E-07
3.357E-03	0.999871	1.601E-07
3.854E-03	0.999920	2.401E-07
4.850E-03	0.999968	4.802E-07
5.029E-03	0.999973	5.336E-07
5.231E-03	0.999977	6.003E-07
5.469E-03	0.999982	6.860E-07

5.757E-03	0.999986	8.004E-07
6.118E-03	0.999991	9.604E-07
6.590E-03	0.999995	1.201E-06
7.254E-03	0.999999	1.601E-06
8.303E-03	1.000002	2.401E-06
1.046E-02	1.000005	4.802E-06
1.093E-02	1.000005	5.336E-06
1.127E-02	1.000005	6.003E-06
1.178E-02	1.000005	6.860E-06
1.240E-02	1.000005	8.004E-06
1.318E-02	1.000005	9.605E-06
1.420E-02	1.000005	1.201E-05
1.563E-02	1.000005	1.601E-05
1.789E-02	1.000005	2.401E-05
2.254E-02	1.000004	4.804E-05
2.335E-02	1.000004	5.338E-05
2.423E-02	1.000004	6.005E-05
2.539E-02	1.000004	6.864E-05
2.673E-02	1.000004	8.008E-05
2.840E-02	1.000004	9.611E-05
3.050E-02	1.000003	1.202E-04
3.363E-02	1.000003	1.603E-04
3.856E-02	1.000003	2.405E-04
4.862E-02	1.000002	4.819E-04

BARIUM CHLORIDE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIC	WATER GAINED(GM)
8.758E-04	0.901674	2.668E-09
9.095E-04	0.914560	3.002E-09
9.493E-04	0.927079	3.431E-09
9.976E-04	0.939301	4.002E-09
1.058E-03	0.950861	4.803E-09
1.095E-03	0.956415	5.336E-09
1.138E-03	0.961752	6.003E-09
1.188E-03	0.966971	6.861E-09
1.249E-03	0.972040	8.004E-09
1.326E-03	0.976998	9.605E-09
1.427E-03	0.981799	1.201E-08
1.569E-03	0.986490	1.601E-08
1.794E-03	0.991052	2.401E-08
2.257E-03	0.995501	4.802E-08
2.337E-03	0.995877	5.336E-08
2.430E-03	0.996270	6.003E-08
2.541E-03	0.996680	6.860E-08
2.674E-03	0.997107	8.004E-08
2.842E-03	0.997550	9.605E-08
3.061E-03	0.998011	1.201E-07
3.368E-03	0.998488	1.601E-07
3.855E-03	0.998981	2.401E-07
4.856E-03	0.999490	4.802E-07
5.030E-03	0.999542	5.336E-07
5.231E-03	0.999594	6.003E-07
5.469E-03	0.999646	6.860E-07
5.758E-03	0.999697	8.004E-07
6.118E-03	0.999749	9.604E-07
6.591E-03	0.999801	1.201E-06
7.254E-03	0.999853	1.601E-06
8.303E-03	0.999905	2.401E-06
1.046E-02	0.999956	4.802E-06
1.084E-02	0.999961	5.336E-06
1.127E-02	0.999966	6.003E-06
1.178E-02	0.999971	6.860E-06

NOT REPRODUCIBLE

1.244E-02	0.998976	8.004E-05
1.313E-02	0.999991	9.604E-05
1.420E-02	0.999996	1.201E-04
1.563E-02	0.999991	1.601E-04
1.759E-02	0.999995	2.401E-04
2.254E-02	0.999999	4.802E-04
2.334E-02	1.000000	5.336E-04
2.428E-02	1.000000	6.003E-04
2.538E-02	1.000000	6.860E-04
2.672E-02	1.000001	8.004E-04
2.840E-02	1.000001	9.605E-04
3.050E-02	1.000001	1.201E-03
3.367E-02	1.000002	1.601E-03
3.854E-02	1.000002	2.401E-03
4.856E-02	1.000002	4.804E-03
5.030E-02	1.000002	5.338E-03
5.231E-02	1.000002	6.005E-03
5.470E-02	1.000002	6.863E-03
5.758E-02	1.000002	8.008E-03
6.114E-02	1.000001	9.611E-03
6.572E-02	1.000001	1.202E-02
7.259E-02	1.000001	1.603E-02
8.308E-02	1.000001	2.405E-02
1.047E-01	1.000001	4.819E-02

BARIUM CHLORIDE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.887E-03	0.901625	2.668E-08
1.959E-03	0.914512	3.002E-08
2.045E-03	0.927031	3.430E-08
2.149E-03	0.939254	4.002E-08
2.280E-03	0.950815	4.803E-08
2.359E-03	0.956370	5.336E-08
2.451E-03	0.961707	6.003E-08
2.560E-03	0.966928	6.861E-08
2.692E-03	0.971999	8.004E-08
2.857E-03	0.976958	9.605E-08
3.074E-03	0.981762	1.201E-07
3.380E-03	0.986455	1.601E-07
3.864E-03	0.991021	2.401E-07
4.862E-03	0.995476	4.802E-07
5.035E-03	0.995853	5.336E-07
5.236E-03	0.996247	6.003E-07
5.474E-03	0.996658	6.860E-07
5.762E-03	0.997086	8.004E-07
6.122E-03	0.997530	9.604E-07
6.594E-03	0.997992	1.201E-06
7.256E-03	0.998471	1.601E-06
8.305E-03	0.998966	2.401E-06
1.046E-02	0.999478	4.802E-06
1.084E-02	0.999530	5.336E-06
1.127E-02	0.999583	6.003E-06
1.178E-02	0.999635	6.860E-06
1.240E-02	0.999687	8.003E-06
1.318E-02	0.999740	9.604E-06
1.420E-02	0.999793	1.201E-05
1.563E-02	0.999846	1.601E-05
1.789E-02	0.999898	2.401E-05
2.254E-02	0.999951	4.802E-05
2.334E-02	0.999956	5.336E-05
2.428E-02	0.999961	6.003E-05
2.538E-02	0.999966	6.860E-05

2.572E-02	0.999972	8.003E-05
2.840E-02	0.999977	9.604E-05
3.059E-02	0.999982	1.200E-04
3.357E-02	0.999987	1.601E-04
3.854E-02	0.999992	2.401E-04
4.356E-02	0.999997	4.802E-04
5.124E-02	0.999997	5.336E-04
5.231E-02	0.999998	6.003E-04
5.459E-02	0.999998	6.860E-04
5.757E-02	0.999999	8.004E-04
6.118E-02	0.999999	9.604E-04
6.590E-02	0.999999	1.201E-03
7.254E-02	1.000000	1.601E-03
8.304E-02	1.000000	2.401E-03
1.040E-01	1.000000	4.804E-03
1.084E-01	1.000001	5.337E-03
1.127E-01	1.000001	6.005E-03
1.178E-01	1.000001	6.863E-03
1.241E-01	1.000001	8.008E-03
1.318E-01	1.000001	9.610E-03
1.420E-01	1.000001	1.202E-02
1.563E-01	1.000001	1.602E-02
1.790E-01	1.000000	2.405E-02
2.256E-01	1.000000	4.819E-02

BARIUM CHLORIDE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.06[illegible]E-03	0.901603	2.66[illegible]E-07
4.221E-03	0.914489	3.002E-07
4.406E-03	0.927009	3.430E-07
4.630E-03	0.939232	4.002E-07
4.911E-03	0.950794	4.802E-07
5.082E-03	0.956349	5.336E-07
5.280E-03	0.961667	6.003E-07
5.515E-03	0.966908	6.860E-07
5.799E-03	0.971979	8.004E-07
6.156E-03	0.976939	9.605E-07
6.624E-03	0.981744	1.201E-06
7.281E-03	0.986439	1.601E-06
8.325E-03	0.991006	2.401E-06
1.048E-02	0.995465	4.802E-06
1.085E-02	0.995842	5.336E-06
1.128E-02	0.996236	6.003E-06
1.179E-02	0.996647	6.860E-06
1.241E-02	0.997076	8.003E-06
1.319E-02	0.997521	9.604E-06
1.421E-02	0.997984	1.201E-05
1.563E-02	0.998463	1.601E-05
1.789E-02	0.998960	2.401E-05
2.254E-02	0.999473	4.802E-05
2.339E-02	0.999525	5.336E-05
2.428E-02	0.999578	6.002E-05
2.539E-02	0.999630	6.860E-05
2.672E-02	0.999683	8.003E-05
2.840E-02	0.999736	9.604E-05
3.059E-02	0.999789	1.200E-04
3.367E-02	0.999842	1.601E-04
3.854E-02	0.999895	2.401E-04
4.856E-02	0.999948	4.802E-04
5.029E-02	0.999954	5.335E-04
5.231E-02	0.999959	6.002E-04
5.469E-02	0.999964	6.860E-04

5.754E-02	0.999994	1.003E-04
6.118E-02	0.999979	3.604E-04
6.590E-02	0.999980	1.201E-03
7.253E-02	0.999585	1.601E-03
8.303E-02	0.999960	2.401E-03
1.046E-01	0.999596	4.802E-03
1.094E-01	0.999856	5.335E-03
1.127E-01	0.999957	6.002E-03
1.170E-01	0.999997	6.860E-03
1.240E-01	0.999998	8.003E-03
1.316E-01	0.999998	9.604E-03
1.420E-01	0.999999	1.201E-02
1.568E-01	0.999999	1.601E-02
1.789E-01	1.000000	2.401E-02
2.254E-01	1.000000	4.803E-02
2.335E-01	1.000000	5.337E-02
2.428E-01	1.000000	6.005E-02
2.539E-01	1.000000	6.863E-02
2.673E-01	1.000000	8.003E-02
2.840E-01	1.000000	9.610E-02
3.060E-01	1.000000	1.201E-01
3.368E-01	1.000000	1.602E-01
3.850E-01	1.000000	2.405E-01
4.361E-01	1.000000	4.819E-01

BARIUM CHLORIDE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RATE (CM)	SATURATION RATIO	WATER GAINED(GM)
8.758E-03	0.901592	2.658E-06
9.196E-03	0.914479	3.001E-06
9.443E-03	0.926598	3.430E-06
9.970E-03	0.939222	4.002E-06
1.056E-02	0.950784	4.802E-06
1.095E-02	0.956339	5.336E-06
1.138E-02	0.961677	6.003E-06
1.188E-02	0.966899	6.860E-06
1.249E-02	0.971970	8.004E-06
1.320E-02	0.976931	9.604E-06
1.427E-02	0.981736	1.201E-05
1.559E-02	0.986432	1.601E-05
1.794E-02	0.991000	2.401E-05
2.257E-02	0.995459	4.802E-05
2.337E-02	0.995837	5.336E-05
2.430E-02	0.996231	6.002E-05
2.541E-02	0.996643	6.860E-05
2.674E-02	0.997071	8.003E-05
2.842E-02	0.997517	9.604E-05
3.061E-02	0.997980	1.200E-04
3.368E-02	0.998459	1.601E-04
3.855E-02	0.998956	2.401E-04
4.856E-02	0.999470	4.802E-04
5.030E-02	0.999523	5.335E-04
5.231E-02	0.999575	6.002E-04
5.459E-02	0.999628	6.860E-04
5.757E-02	0.999681	8.003E-04
6.118E-02	0.999734	9.604E-04
6.590E-02	0.999787	1.200E-03
7.254E-02	0.999840	1.601E-03
8.303E-02	0.999894	2.401E-03
1.046E-01	0.999947	4.802E-03
1.094E-01	0.999952	5.335E-03
1.127E-01	0.999958	6.002E-03
1.178E-01	0.999963	6.860E-03

[NOT REPRODUCIBLE

1.240E-01	0.999968	8.003E-03
1.314E-01	0.999974	9.604E-03
1.420E-01	0.999979	1.200E-02
1.563E-01	0.999984	1.601E-02
1.789E-01	0.999990	2.401E-02
2.254E-01	0.999995	4.802E-02
2.334E-01	0.999996	5.335E-02
2.423E-01	0.999996	6.002E-02
2.538E-01	0.999997	6.860E-02
2.672E-01	0.999997	8.003E-02
2.840E-01	0.999998	9.604E-02
3.059E-01	0.999998	1.201E-01
3.367E-01	0.999999	1.601E-01
3.854E-01	0.999999	2.401E-01
4.359E-01	1.000000	4.803E-01
5.030E-01	1.000000	5.337E-01
5.231E-01	1.000000	6.005E-01
5.469E-01	1.000000	6.863E-01
5.759E-01	1.000000	8.007E-01
6.119E-01	1.000000	9.610E-01
6.592E-01	1.000000	1.201E 00
7.259E-01	1.000000	1.602E 00
8.303E-01	1.000000	2.405E 00
1.047E 00	1.000000	4.819E 00

BARIUM CHLORIDE

PERCENTAGE	MOLALITY	DENSITY
0.24	1.516	1.2531
0.22	1.354	1.2277
0.20	1.200	1.2031
0.18	1.054	1.1793
0.16	0.915	1.1564
0.14	0.782	1.1342
0.12	0.655	1.1128
0.10	0.533	1.0921
0.08	0.418	1.0721
0.06	0.306	1.0528
0.04	0.200	1.0341
0.02	0.098	1.0159
0.00	0.000	1.0000

(14) SODIUM SULFATE

SODIUM SULFATE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
142.05	2.698	3.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.3826E-05	2.0683E-06
1.00E-15	6.4176E-05	4.4561E-06
1.00E-14	2.9788E-04	9.6004E-06
1.00E-13	1.3826E-03	2.0683E-05
1.00E-12	6.4176E-03	4.4561E-05
1.00E-11	2.9788E-02	9.6004E-05
1.00E-10	1.3826E-01	2.0683E-04
1.00E-09	6.4176E-01	4.4561E-04
1.00E-08	2.9788E 00	9.6004E-04
1.00E-07	1.3826E 01	2.0683E-03
1.00E-06	6.4176E 01	4.4561E-03

SODIUM SULFATE
(ONE-TWO ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
4.0000	0.85217	2.40743
3.5000	0.87665	2.23168
3.0000	0.89837	2.09316
2.5000	0.91774	1.98911
2.0000	0.93508	1.92695
1.8000	0.94147	1.91724
1.6000	0.94772	1.91393
1.4000	0.95381	1.92004
1.2000	0.95990	1.93227
1.0000	0.96590	1.95980
0.9000	0.96888	1.98115
0.8000	0.97195	2.00235
0.7000	0.97508	2.02646
0.6000	0.97825	2.05652
0.5000	0.98153	2.08942
0.4000	0.98488	2.13120
0.3000	0.98831	2.18783
0.2000	0.99189	2.26822
0.1000	0.99572	2.38410
0.0900	0.99605	2.44593
0.0800	0.99640	2.50772
0.0700	0.99677	2.56945
0.0600	0.99716	2.63113
0.0500	0.99758	2.69275
0.0400	0.99802	2.75433
0.0300	0.99849	2.81584
0.0200	0.99896	2.87727
0.0100	0.99947	2.93865
0.0090	0.99952	2.94478
0.0080	0.99957	2.95092
0.0070	0.99963	2.95703
0.0060	0.99969	2.96316
0.0050	0.99973	2.96932
0.0040	0.99979	2.97543
0.0030	0.99984	2.98158

0.0020	0.99989	2.98763
0.0019	0.99990	2.98833
0.0018	0.99990	2.98888
0.0017	0.99991	2.98950
0.0016	0.99991	2.98994
0.0015	0.99992	2.99072
0.0014	0.99992	2.99132
0.0013	0.99993	2.99200
0.0012	0.99994	2.99247
0.0011	0.99994	2.99302
0.0010	0.99995	2.99368
0.0009	0.99995	2.99403
0.0008	0.99996	2.99499
0.0007	0.99996	2.99564
0.0006	0.99997	2.99583
0.0005	0.99997	2.99692
0.0004	0.99998	2.99753
0.0003	0.99998	2.99717
0.0002	0.99999	2.99855
0.0001	0.99999	2.99859

SODIUM SULFATE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.586E-06	0.872902	1.761E-16
3.738E-06	0.897545	2.012E-16
3.923E-06	0.919245	2.348E-16
4.155E-06	0.938400	2.817E-16
4.460E-06	0.955151	3.522E-16
4.612E-06	0.961216	3.913E-16
4.788E-06	0.967067	4.402E-16
4.998E-06	0.972675	5.031E-16
5.252E-06	0.978171	5.869E-16
5.571E-06	0.983427	7.043E-16
5.764E-06	0.985970	7.825E-16
5.989E-06	0.988550	8.803E-16
6.255E-06	0.991119	1.006E-15
6.578E-06	0.993645	1.174E-15
6.983E-06	0.996161	1.408E-15
7.514E-06	0.998602	1.761E-15
8.261E-06	1.000918	2.347E-15
9.446E-06	1.003022	3.521E-15
1.189E-05	1.004650	7.042E-15
1.231E-05	1.004677	7.825E-15
1.280E-05	1.004702	8.803E-15
1.338E-05	1.004720	1.006E-14
1.409E-05	1.004723	1.174E-14
1.497E-05	1.004701	1.408E-14
1.612E-05	1.004636	1.761E-14
1.774E-05	1.004498	2.347E-14
2.031E-05	1.004226	3.521E-14
2.550E-05	1.003650	7.042E-14
2.650E-05	1.003558	7.824E-14
2.756E-05	1.003455	8.802E-14
2.881E-05	1.003339	1.006E-13
3.033E-05	1.003206	1.174E-13
3.223E-05	1.003051	1.408E-13
3.472E-05	1.002866	1.760E-13
3.821E-05	1.002637	2.347E-13

4.374E-05	1.002337	3.521E-13
5.511E-05	1.001886	7.042E-13
5.708E-05	1.001824	7.824E-13
5.937E-05	1.001758	8.802E-13
6.207E-05	1.001685	1.006E-12
6.534E-05	1.001604	1.174E-12
6.944E-05	1.001513	1.408E-12
7.480E-05	1.001408	1.760E-12
8.233E-05	1.001282	2.347E-12
9.424E-05	1.001123	3.521E-12
1.187E-04	1.000895	7.042E-12
1.240E-04	1.000864	7.824E-12
1.279E-04	1.000831	8.802E-12
1.337E-04	1.000795	1.006E-11
1.408E-04	1.000756	1.174E-11
1.496E-04	1.000712	1.408E-11
1.612E-04	1.000661	1.761E-11
1.774E-04	1.000601	2.347E-11
2.[illegible]0E-04	1.000525	3.521E-11
2.[illegible]3E-04	1.000417	7.044E-11
2.650E-04	1.000403	7.827E-11
2.756E-04	1.000387	8.806E-11
2.881E-04	1.000370	1.006E-10
3.033E-04	1.000352	1.174E-10
3.224E-04	1.000331	1.409E-10
3.473E-04	1.000307	1.762E-10
3.823E-04	1.000279	2.350E-10
4.377E-04	1.000244	3.527E-10
5.518E-04	1.000194	7.067E-10

SODIUM SULFATE

(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.725E-06	0.861730	1.761E-15
8.054E-06	0.886286	2.012E-15
8.453E-06	0.908601	2.348E-15
8.952E-06	0.927295	2.817E-15
9.606E-06	0.944343	3.521E-15
9.936E-06	0.950584	3.913E-15
1.032E-05	0.956650	4.402E-15
1.077E-05	0.962521	5.030E-15
1.131E-05	0.968340	5.869E-15
1.200E-05	0.973996	7.042E-15
1.242E-05	0.976774	7.825E-15
1.290E-05	0.979621	8.803E-15
1.349E-05	0.982494	1.006E-14
1.417E-05	0.985368	1.174E-14
1.504E-05	0.988293	1.408E-14
1.619E-05	0.991223	1.761E-14
1.780E-05	0.994145	2.347E-14
2.035E-05	0.997044	3.521E-14
2.561E-05	0.999857	7.042E-14
2.652E-05	1.000045	7.824E-14
2.758E-05	1.000244	8.803E-14
2.883E-05	1.000452	1.006E-13
3.035E-05	1.000666	1.174E-13
3.225E-05	1.000879	1.408E-13
3.474E-05	1.001055	1.760E-13
3.823E-05	1.001269	2.347E-13
4.375E-05	1.001403	3.521E-13
5.512E-05	1.001409	7.042E-13
5.709E-05	1.001394	7.824E-13
5.937E-05	1.001374	8.802E-13
6.207E-05	1.001348	1.096E-12
6.535E-05	1.001315	1.174E-12
6.944E-05	1.001271	1.408E-12
7.480E-05	1.001214	1.760E-12
8.233E-05	1.001137	2.347E-12

9.424E-05	1.001026	3.521E-12
1.187E-04	1.000846	7.042E-12
1.230E-04	1.000820	7.824E-12
1.279E-04	1.000792	8.802E-12
1.337E-04	1.000761	1.006E-11
1.408E-04	1.000727	1.174E-11
1.496E-04	1.000687	1.408E-11
1.611E-04	1.000642	1.760E-11
1.774E-04	1.000586	2.347E-11
2.030E-04	1.000515	3.521E-11
2.553E-04	1.000412	7.042E-11
2.649E-04	1.000398	7.824E-11
2.756E-04	1.000383	8.802E-11
2.881E-04	1.000367	1.006E-10
3.033E-04	1.000349	1.174E-10
3.223E-04	1.000329	1.408E-10
3.472E-04	1.000306	1.761E-10
3.821E-04	1.000278	2.347E-10
4.374E-04	1.000243	3.521E-10
5.512E-04	1.000193	7.044E-10
5.709E-04	1.000187	7.827E-10
5.937E-04	1.000180	8.806E-10
6.208E-04	1.000172	1.006E-09
6.535E-04	1.000163	1.174E-09
6.945E-04	1.000154	1.409E-09
7.482E-04	1.000143	1.762E-09
8.236E-04	1.000130	2.350E-09
9.429E-04	1.000113	3.527E-09
1.189E-03	1.000090	7.057E-09

SODIUM SULFATE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.664E-05	0.856593	1.751E-14
1.735E-05	0.881107	2.012E-14
1.821E-05	0.902829	2.348E-14
1.929E-05	0.922185	2.817E-14
2.070E-05	0.939368	3.521E-14
2.141E-05	0.945689	3.913E-14
2.223E-05	0.951854	4.402E-14
2.320E-05	0.957845	5.030E-14
2.438E-05	0.963810	5.869E-14
2.586E-05	0.969648	7.042E-14
2.675E-05	0.972536	7.825E-14
2.780E-05	0.975504	8.803E-14
2.903E-05	0.978515	1.006E-13
3.053E-05	0.981550	1.174E-13
3.241E-05	0.984662	1.408E-13
3.488E-05	0.987816	1.761E-13
3.835E-05	0.991016	2.347E-13
4.385E-05	0.994281	3.521E-13
5.518E-05	0.997640	7.042E-13
5.714E-05	0.997902	7.824E-13
5.942E-05	0.998182	8.802E-13
6.212E-05	0.998478	1.006E-12
6.539E-05	0.998788	1.174E-12
6.948E-05	0.999110	1.408E-12
7.483E-05	0.999441	1.760E-12
8.236E-05	0.999774	2.347E-12
9.426E-05	1.000096	3.521E-12
1.187E-04	1.000370	7.042E-12
1.230E-04	1.000391	7.824E-12
1.279E-04	1.000410	8.802E-12
1.337E-04	1.000426	1.006E-11
1.408E-04	1.000438	1.174E-11
1.496E-04	1.000447	1.408E-11
1.612E-04	1.000448	1.760E-11
1.774E-04	1.000441	2.347E-11

2.030E-04	1.000419	3.521E-11
2.558E-04	1.000364	7.042E-11
2.649E-04	1.000355	7.824E-11
2.756E-04	1.000345	8.802E-11
2.881E-04	1.000333	1.006E-10
3.033E-04	1.000320	1.174E-10
3.223E-04	1.000304	1.408E-10
3.472E-04	1.000286	1.760E-10
3.821E-04	1.000263	2.347E-10
4.374E-04	1.000233	3.521E-10
5.511E-04	1.000198	7.042E-10
5.708E-04	1.000182	7.824E-10
5.937E-04	1.000176	8.802E-10
6.207E-04	1.000168	1.006E-09
6.534E-04	1.000160	1.174E-09
6.944E-04	1.000151	1.408E-09
7.480E-04	1.000141	1.760E-09
8.233E-04	1.000128	2.347E-09
9.424E-04	1.000112	3.521E-09
1.187E-03	1.000089	7.044E-09
1.230E-03	1.000086	7.827E-09
1.279E-03	1.000083	8.805E-09
1.337E-03	1.000079	1.006E-08
1.408E-03	1.000076	1.174E-08
1.496E-03	1.000071	1.409E-08
1.612E-03	1.000066	1.762E-08
1.774E-03	1.000060	2.350E-08
2.031E-03	1.000052	3.527E-08
2.561E-03	1.000042	7.066E-08

SODIUM SULFATE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.586E-05	0.854219	1.761E-13
3.738E-05	0.878714	2.012E-13
3.923E-05	0.900439	2.348E-13
4.155E-05	0.919823	2.817E-13
4.459E-05	0.937068	3.521E-13
4.912E-05	0.953426	3.912E-13
4.768E-05	0.949635	4.401E-13
4.993E-05	0.955682	5.030E-13
5.252E-05	0.961715	5.868E-13
5.571E-05	0.967637	7.042E-13
5.764E-05	0.970574	7.825E-13
5.989E-05	0.973599	8.803E-13
6.259E-05	0.976674	1.006E-12
6.578E-05	0.979783	1.174E-12
6.983E-05	0.982981	1.408E-12
7.514E-05	0.986239	1.760E-12
8.261E-05	0.989567	2.347E-12
9.440E-05	0.993001	3.521E-12
1.189E-04	0.996613	7.042E-12
1.231E-04	0.996909	7.824E-12
1.280E-04	0.997226	8.802E-12
1.338E-04	0.997562	1.006E-11
1.409E-04	0.997917	1.174E-11
1.497E-04	0.998290	1.408E-11
1.612E-04	0.998679	1.760E-11
1.774E-04	0.999081	2.347E-11
2.031E-04	0.999489	3.521E-11
2.558E-04	0.999888	7.042E-11
2.650E-04	0.999926	7.824E-11
2.756E-04	0.999962	8.802E-11
2.881E-04	0.999998	1.006E-10
3.033E-04	1.000032	1.174E-10
3.223E-04	1.000064	1.408E-10
3.472E-04	1.000093	1.760E-10
3.821E-04	1.000118	2.347E-10

4.374E-04	1.000137	3.521E-10
5.511E-04	1.000140	7.041E-10
5.708E-04	1.000139	7.824E-10
5.937E-04	1.000137	8.802E-10
6.207E-04	1.000134	1.006E-09
6.534E-04	1.000131	1.174E-09
6.944E-04	1.000127	1.408E-09
7.480E-04	1.000121	1.760E-09
8.232E-04	1.000114	2.347E-09
9.424E-04	1.000103	3.521E-09
1.187E-03	1.000085	7.041E-09
1.230E-03	1.000082	7.824E-09
1.279E-03	1.000079	8.802E-09
1.337E-03	1.000076	1.006E-08
1.409E-03	1.000073	1.174E-08
1.496E-03	1.000069	1.408E-08
1.611E-03	1.000064	1.760E-08
1.774E-03	1.000059	2.347E-08
2.030E-03	1.000052	3.521E-08
2.558E-03	1.000041	7.044E-08
2.650E-03	1.000040	7.826E-08
2.756E-03	1.000038	8.805E-08
2.881E-03	1.000037	1.006E-07
3.033E-03	1.000035	1.174E-07
3.224E-03	1.000033	1.409E-07
3.473E-03	1.000031	1.762E-07
3.823E-03	1.000028	2.350E-07
4.377E-03	1.000024	3.527E-07
5.518E-03	1.000019	7.066E-07

SODIUM SULFATE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS (CM)	SATURATION RATIO	WATER GAINED(GM)
7.725E-05	0.853120	1.761E-12
8.054E-05	0.877605	2.012E-12
8.452E-05	0.899331	2.348E-12
8.952E-05	0.918729	2.817E-12
9.603E-05	0.936002	3.521E-12
9.935E-05	0.942377	3.912E-12
1.032E-04	0.948607	4.401E-12
1.077E-04	0.954679	5.030E-12
1.131E-04	0.960744	5.868E-12
1.200E-04	0.966705	7.042E-12
1.242E-04	0.969665	7.824E-12
1.290E-04	0.972716	8.802E-12
1.348E-04	0.975821	1.006E-11
1.417E-04	0.978964	1.174E-11
1.504E-04	0.982202	1.408E-11
1.614E-04	0.985508	1.760E-11
1.780E-04	0.988856	2.347E-11
2.035E-04	0.992408	3.521E-11
2.551E-04	0.996136	7.042E-11
2.652E-04	0.996449	7.824E-11
2.759E-04	0.996783	8.802E-11
2.883E-04	0.997138	1.006E-10
3.035E-04	0.997514	1.174E-10
3.225E-04	0.997910	1.408E-10
3.473E-04	0.998325	1.760E-10
3.823E-04	0.998759	2.347E-10
4.375E-04	0.999208	3.521E-10
5.512E-04	0.999665	7.041E-10
5.709E-04	0.999710	7.824E-10
5.937E-04	0.999755	8.802E-10
6.207E-04	0.999799	1.006E-09
6.535E-04	0.999843	1.174E-09
6.944E-04	0.999886	1.408E-09
7.480E-04	0.999928	1.760E-09
8.233E-04	0.999969	2.347E-09

9.424E-04	1.CCCCC6	3.521E-09
1.187E-03	1.000036	7.041E-09
1.230E-03	1.000038	7.824E-09
1.279E-03	1.000040	8.801E-09
1.337E-03	1.000042	1.006E-08
1.408E-03	1.000043	1.174E-08
1.496E-03	1.000044	1.408E-08
1.611E-03	1.000045	1.760E-08
1.774E-03	1.000044	2.347E-08
2.030E-03	1.000042	3.521E-08
2.558E-03	1.000036	7.041E-08
2.649E-03	1.000035	7.824E-08
2.756E-03	1.000034	8.802E-08
2.881E-03	1.000033	1.006E-07
3.033E-03	1.000032	1.174E-07
3.223E-03	1.000030	1.408E-07
3.472E-03	1.000029	1.760E-07
3.821E-03	1.000026	2.347E-07
4.374E-03	1.000023	3.521E-07
5.512E-03	1.000019	7.043E-07
5.709E-03	1.000018	7.826E-07
5.937E-03	1.000018	8.805E-07
6.208E-03	1.000017	1.006E-06
6.535E-03	1.000016	1.174E-06
6.945E-03	1.000015	1.409E-06
7.482E-03	1.000014	1.762E-06
8.235E-03	1.000013	2.350E-06
9.429E-03	1.000011	3.527E-06
1.189E-02	1.000009	7.066E-06

SODIUM SULFATE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.664E-04	0.852610	1.761E-11
1.735E-04	0.877091	2.012E-11
1.821E-04	0.898818	2.347E-11
1.929E-04	0.918221	2.817E-11
2.070E-04	0.935508	3.521E-11
2.140E-04	0.941891	3.912E-11
2.223E-04	0.948131	4.401E-11
2.320E-04	0.954214	5.030E-11
2.438E-04	0.960234	5.868E-11
2.586E-04	0.966273	7.042E-11
2.675E-04	0.969244	7.824E-11
2.780E-04	0.972307	8.802E-11
2.903E-04	0.975425	1.006E-10
3.053E-04	0.978584	1.174E-10
3.241E-04	0.981840	1.408E-10
3.488E-04	0.985169	1.760E-10
3.834E-04	0.988584	2.347E-10
4.364E-04	0.992132	3.521E-10
5.519E-04	0.995915	7.041E-10
5.714E-04	0.996235	7.824E-10
5.942E-04	0.996577	8.802E-10
6.212E-04	0.996941	1.006E-09
6.539E-04	0.997326	1.174E-09
6.948E-04	0.997733	1.408E-09
7.483E-04	0.998161	1.760E-09
8.235E-04	0.998610	2.347E-09
9.426E-04	0.999077	3.521E-09
1.187E-03	0.999561	7.041E-09
1.230E-03	0.999610	7.824E-09
1.278E-03	0.999658	8.801E-09
1.337E-03	0.999707	1.006E-08
1.408E-03	0.999756	1.174E-08
1.496E-03	0.999804	1.408E-08
1.612E-03	0.999852	1.760E-08
1.774E-03	0.999899	2.347E-08

2.030E-03	0.999945	3.521E-08
2.558E-03	0.999988	7.041E-08
2.649E-03	0.999992	7.823E-08
2.756E-03	0.999996	8.801E-08
2.851E-03	0.999999	1.006E-07
3.038E-03	1.000003	1.174E-07
3.223E-03	1.000006	1.408E-07
3.472E-03	1.000009	1.760E-07
3.821E-03	1.000012	2.347E-07
4.374E-03	1.000014	3.521E-07
5.511E-03	1.000014	7.041E-07
5.798E-03	1.000014	7.823E-07
5.937E-03	1.000014	8.801E-07
6.207E-03	1.000013	1.006E-06
6.534E-03	1.000013	1.174E-06
6.943E-03	1.000013	1.408E-06
7.480E-03	1.000012	1.760E-06
8.233E-03	1.000011	2.347E-06
9.424E-03	1.000010	3.521E-06
1.187E-02	1.000008	7.043E-06
1.230E-02	1.000008	7.826E-06
1.279E-02	1.000008	8.805E-06
1.337E-02	1.000008	1.006E-05
1.408E-02	1.000007	1.174E-05
1.496E-02	1.000007	1.409E-05
1.612E-02	1.000006	1.762E-05
1.774E-02	1.000006	2.350E-05
2.031E-02	1.000005	3.527E-05
2.561E-02	1.000004	7.066E-05

SODIUM SULFATE
(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.585E-04	0.862373	1.761E-10
3.738E-04	0.876853	2.012E-10
3.923E-04	0.898579	2.347E-10
4.155E-04	0.917986	2.817E-10
4.459E-04	0.935279	3.521E-10
4.612E-04	0.941665	3.912E-10
4.788E-04	0.947909	4.401E-10
4.998E-04	0.953999	5.030E-10
5.252E-04	0.960085	5.868E-10
5.570E-04	0.966072	7.042E-10
5.764E-04	0.969048	7.824E-10
5.989E-04	0.972117	8.802E-10
6.255E-04	0.975241	1.006E-09
6.578E-04	0.978407	1.174E-09
6.983E-04	0.981673	1.408E-09
7.514E-04	0.985011	1.760E-09
8.261E-04	0.988439	2.347E-09
9.446E-04	0.992005	3.521E-09
1.189E-03	0.995812	7.041E-09
1.231E-03	0.996136	7.824E-09
1.280E-03	0.996492	8.801E-09
1.338E-03	0.996849	1.006E-08
1.409E-03	0.997239	1.174E-08
1.497E-03	0.997651	1.408E-08
1.612E-03	0.998085	1.760E-08
1.774E-03	0.998541	2.347E-08
2.031E-03	0.999017	3.521E-08
2.558E-03	0.999513	7.041E-08
2.650E-03	0.999563	7.823E-08
2.756E-03	0.999614	8.801E-08
2.881E-03	0.999664	1.006E-07
3.033E-03	0.999715	1.173E-07
3.223E-03	0.999766	1.408E-07
3.472E-03	0.999816	1.760E-07
3.821E-03	0.999867	2.347E-07

4.374E-03	0.999917	3.520E-07
5.511E-03	0.999965	7.041E-07
5.708E-03	0.999970	7.823E-07
5.937E-03	0.999975	8.801E-07
6.207E-03	0.999979	1.006E-06
6.534E-03	0.999984	1.173E-06
6.943E-03	0.999988	1.408E-06
7.480E-03	0.999993	1.760E-06
8.232E-03	0.999997	2.347E-06
9.424E-03	1.000001	3.520E-06
1.137E-02	1.000004	7.041E-06
1.230E-02	1.000004	7.823E-06
1.279E-02	1.000004	8.801E-06
1.337E-02	1.000004	1.006E-05
1.408E-02	1.000004	1.174E-05
1.496E-02	1.000004	1.408E-05
1.611E-02	1.000004	1.760E-05
1.774E-02	1.000004	2.347E-05
2.030E-02	1.000004	3.521E-05
2.558E-02	1.000004	7.043E-05
2.650E-02	1.000004	7.826E-05
2.756E-02	1.000003	8.805E-05
2.881E-02	1.000003	1.006E-04
3.033E-02	1.000003	1.174E-04
3.224E-02	1.000003	1.409E-04
3.473E-02	1.000003	1.752E-04
3.823E-02	1.000003	2.350E-04
4.377E-02	1.000002	3.527E-04
5.517E-02	1.000002	7.066E-04

SODIUM SULFATE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.725E-04	0.852263	1.761E-09
8.053E-04	0.876742	2.012E-09
8.452E-04	0.898469	2.347E-09
8.952E-04	0.917877	2.817E-09
9.607E-04	0.935172	3.521E-09
9.935E-04	0.941560	3.912E-09
1.032E-03	0.947807	4.401E-09
1.077E-03	0.953899	5.030E-09
1.131E-03	0.959588	5.868E-09
1.200E-03	0.965979	7.041E-09
1.242E-03	0.968957	7.824E-09
1.290E-03	0.972028	8.802E-09
1.348E-03	0.975156	1.006E-08
1.417E-03	0.978326	1.174E-08
1.504E-03	0.981595	1.408E-08
1.619E-03	0.984938	1.760E-08
1.780E-03	0.988372	2.347E-08
2.035E-03	0.991945	3.521E-08
2.551E-03	0.995765	7.041E-08
2.652E-03	0.996090	7.823E-08
2.758E-03	0.996437	8.801E-08
2.883E-03	0.996807	1.006E-07
3.035E-03	0.997199	1.173E-07
3.225E-03	0.997613	1.408E-07
3.473E-03	0.998050	1.760E-07
3.822E-03	0.998508	2.347E-07
4.375E-03	0.998989	3.520E-07
5.512E-03	0.999490	7.041E-07
5.709E-03	0.999541	7.823E-07
5.937E-03	0.999593	8.801E-07
6.207E-03	0.999644	1.006E-06
6.534E-03	0.999696	1.173E-06
6.944E-03	0.999748	1.408E-06
7.480E-03	0.999800	1.760E-06
8.232E-03	0.999852	2.347E-06

9.424E-03	0.999904	3.520E-06
1.187E-02	0.999955	7.041E-06
1.230E-02	0.999960	7.823E-06
1.279E-02	0.999965	8.801E-06
1.337E-02	0.999970	1.006E-05
1.408E-02	0.999975	1.173E-05
1.496E-02	0.999980	1.408E-05
1.611E-02	0.999985	1.760E-05
1.774E-02	0.999990	2.347E-05
2.030E-02	0.999994	3.520E-05
2.558E-02	0.999999	7.041E-05
2.649E-02	0.999999	7.823E-05
2.755E-02	1.000000	8.801E-05
2.881E-02	1.000000	1.006E-04
3.033E-02	1.000000	1.173E-04
3.223E-02	1.000001	1.408E-04
3.472E-02	1.000001	1.760E-04
3.821E-02	1.000001	2.347E-04
4.374E-02	1.000001	3.521E-04
5.511E-02	1.000001	7.043E-04
5.709E-02	1.000001	7.826E-04
5.937E-02	1.000001	8.804E-04
6.208E-02	1.000001	1.006E-03
6.535E-02	1.000001	1.174E-03
6.945E-02	1.000001	1.409E-03
7.482E-02	1.000001	1.762E-03
8.235E-02	1.000001	2.350E-03
9.429E-02	1.000001	3.526E-03
1.189E-01	1.000001	7.066E-03

SODIUM SULFATE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.654E-03	0.852212	1.760E-08
1.735E-03	0.876691	2.012E-08
1.821E-03	0.898418	2.347E-08
1.929E-03	0.917826	2.817E-08
2.070E-03	0.935123	3.521E-08
2.140E-03	0.941511	3.912E-08
2.222E-03	0.947759	4.401E-08
2.320E-03	0.953852	5.029E-08
2.438E-03	0.959943	5.868E-08
2.586E-03	0.965936	7.041E-08
2.675E-03	0.968915	7.824E-08
2.780E-03	0.971987	8.801E-09
2.903E-03	0.975117	1.006E-07
3.053E-03	0.978288	1.174E-07
3.241E-03	0.981559	1.408E-07
3.488E-03	0.984904	1.760E-07
3.834E-03	0.988341	2.347E-07
4.384E-03	0.991918	3.520E-07
5.517E-03	0.995743	7.041E-07
5.714E-03	0.996049	7.823E-07
5.942E-03	0.996417	8.801E-07
6.212E-03	0.996787	1.006E-06
6.539E-03	0.997180	1.173E-06
6.947E-03	0.997596	1.408E-06
7.483E-03	0.998033	1.760E-06
8.235E-03	0.998493	2.347E-06
9.426E-03	0.998976	3.520E-06
1.187E-02	0.999480	7.041E-06
1.230E-02	0.999531	7.823E-06
1.279E-02	0.999583	8.801E-06
1.337E-02	0.999635	1.006E-05
1.408E-02	0.999687	1.173E-05
1.496E-02	0.999740	1.408E-05
1.611E-02	0.999792	1.760E-05
1.774E-02	0.999845	2.347E-05

2.030E-02	0.999898	3.520E-05
2.558E-02	0.999950	7.041E-05
2.649E-02	0.999955	7.823E-05
2.755E-02	0.999961	8.801E-05
2.881E-02	0.999966	1.006E-04
3.033E-02	0.999971	1.173E-04
3.223E-02	0.999976	1.408E-04
3.472E-02	0.999981	1.760E-04
3.821E-02	0.999987	2.347E-04
4.374E-02	0.999992	3.520E-04
5.511E-02	0.999997	7.041E-04
5.708E-02	0.999997	7.823E-04
5.936E-02	0.999997	8.801E-04
6.207E-02	0.999998	1.006E-03
6.534E-02	0.999998	1.173E-03
6.943E-02	0.999999	1.408E-03
7.480E-02	0.999999	1.760E-03
8.232E-02	1.000000	2.347E-03
9.424E-02	1.000000	3.521E-03
1.187E-01	1.000000	7.043E-03
1.230E-01	1.000000	7.826E-03
1.279E-01	1.000000	8.804E-03
1.337E-01	1.000000	1.006E-02
1.408E-01	1.000000	1.174E-02
1.496E-01	1.000000	1.409E-02
1.612E-01	1.000000	1.762E-02
1.774E-01	1.000000	2.350E-02
2.031E-01	1.000000	3.526E-02
2.561E-01	1.000000	7.066E-02

SODIUM SULFATE

(CRYSTAL MASS = 1.000E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.535E-03	0.852189	1.760E-07
3.738E-03	0.876667	2.012E-07
3.923E-03	0.898394	2.347E-07
4.155E-03	0.917802	2.817E-07
4.459E-03	0.935100	3.521E-07
4.611E-03	0.941489	3.912E-07
4.788E-03	0.947737	4.401E-07
4.998E-03	0.953831	5.029E-07
5.252E-03	0.959922	5.868E-07
5.570E-03	0.965916	7.041E-07
5.764E-03	0.968896	7.823E-07
5.989E-03	0.971968	8.801E-07
6.255E-03	0.975098	1.006E-06
6.573E-03	0.978270	1.173E-06
6.983E-03	0.981542	1.408E-06
7.514E-03	0.984889	1.760E-06
8.261E-03	0.988327	2.347E-06
9.446E-03	0.991905	3.520E-06
1.189E-02	0.995732	7.041E-06
1.231E-02	0.996059	7.823E-06
1.280E-02	0.996407	8.801E-06
1.338E-02	0.996778	1.006E-05
1.409E-02	0.997172	1.173E-05
1.497E-02	0.997587	1.408E-05
1.612E-02	0.998026	1.760E-05
1.774E-02	0.998487	2.347E-05
2.031E-02	0.998970	3.520E-05
2.558E-02	0.999475	7.041E-05
2.650E-02	0.999527	7.823E-05
2.756E-02	0.999579	8.801E-05
2.881E-02	0.999631	1.006E-04
3.033E-02	0.999683	1.173E-04
3.223E-02	0.999736	1.408E-04
3.472E-02	0.999789	1.760E-04
3.821E-02	0.999842	2.347E-04

4.374E-02	C.999895	3.520E-04
5.511E-02	0.999948	7.040E-04
5.708E-02	0.999953	7.823E-04
5.936E-02	0.999959	8.800E-04
6.207E-02	0.999964	1.006E-03
6.534E-02	0.999969	1.173E-03
6.943E-02	0.999975	1.408E-03
7.479E-02	0.999980	1.760E-03
8.232E-02	0.999985	2.347E-03
9.423E-02	0.999990	3.520E-03
1.187E-01	0.999995	7.040E-03
1.230E-01	0.999996	7.823E-03
1.279E-01	0.999997	8.801E-03
1.337E-01	0.999997	1.006E-02
1.408E-01	0.999998	1.173E-02
1.496E-01	0.999998	1.408E-02
1.611E-01	C.999998	1.760E-02
1.774E-01	C.999999	2.347E-02
2.030E-01	0.999999	3.521E-02
2.558E-01	1.000000	7.043E-02
2.650E-01	1.000000	7.825E-02
2.756E-01	1.000000	8.804E-02
2.881E-01	1.000000	1.006E-01
3.033E-01	1.000000	1.174E-01
3.223E-01	1.000000	1.409E-01
3.473E-01	1.000000	1.762E-01
3.922E-01	1.000000	2.349E-01
4.376E-01	1.000000	3.526E-01
5.517E-01	1.000000	7.065E-01

SODIUM SULFATE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.724E-03	0.852178	1.760E-06
8.053E-03	0.876656	2.012E-06
8.452E-03	0.898383	2.347E-06
8.951E-03	0.917792	2.816E-06
9.607E-03	0.935089	3.521E-06
9.935E-03	0.941478	3.912E-06
1.032E-02	0.947727	4.401E-06
1.077E-02	0.953821	5.029E-06
1.131E-02	0.959912	5.867E-06
1.200E-02	0.965907	7.041E-06
1.242E-02	0.968887	7.823E-06
1.290E-02	0.971960	8.801E-06
1.348E-02	0.975090	1.006E-05
1.417E-02	0.978262	1.173E-05
1.504E-02	0.981534	1.408E-05
1.619E-02	0.984891	1.760E-05
1.780E-02	0.988320	2.347E-05
2.035E-02	0.991899	3.520E-05
2.561E-02	0.995728	7.041E-05
2.652E-02	0.996054	7.823E-05
2.758E-02	0.996403	8.801E-05
2.883E-02	0.996774	1.006E-04
3.035E-02	0.997168	1.173E-04
3.225E-02	0.997584	1.408E-04
3.473E-02	0.998022	1.760E-04
3.822E-02	0.998483	2.347E-04
4.375E-02	0.998967	3.520E-04
5.511E-02	0.999473	7.040E-04
5.708E-02	0.999525	7.823E-04
5.937E-02	0.999577	8.800E-04
6.207E-02	0.999629	1.006E-03
6.534E-02	0.999681	1.173E-03
6.944E-02	0.999734	1.408E-03
7.480E-02	0.999787	1.760E-03
8.232E-02	0.999840	2.347E-03

9.424E-02	C.999893	3.520E-03
1.187E-01	0.999947	7.040E-03
1.230E-01	0.999952	7.822E-03
1.279E-01	C.999958	8.800E-03
1.337E-01	0.999963	1.006E-02
1.408E-01	0.999968	1.173E-02
1.496E-01	C.999974	1.408E-02
1.611E-01	0.999979	1.760E-02
1.774E-01	C.999984	2.347E-02
2.030E-01	C.999990	3.520E-02
2.558E-01	C.999995	7.040E-02
2.649E-01	0.999996	7.823E-02
2.755E-C1	0.999996	8.800E-02
2.881E-01	C.999997	1.006E-01
3.033E-01	C.999997	1.173E-01
3.223E-01	0.999998	1.408E-01
3.472E-01	0.999998	1.760E-01
3.821E-C1	C.999999	2.347E-01
4.374E-01	0.999999	3.521E-01
5.511E-01	1.000000	7.042E-01
5.708E-01	1.000000	7.825E-01
5.937E-01	1.000000	8.804E-01
6.207E-01	1.000000	1.006E 00
6.535E-01	1.000000	1.174E 00
6.945E-01	1.000000	1.409E 00
7.481E-01	1.000000	1.762E 00
8.235E-01	1.000000	2.349E 00
9.429E-01	1.000000	3.526E 00
1.189E 00	1.000000	7.065E 00

SODIUM SULFATE

PERCENTAGE	MOLALITY	DENSITY
0.24	2.223	1.2336
0.22	1.986	1.2124
0.20	1.760	1.1915
0.18	1.545	1.1709
0.16	1.341	1.1506
0.14	1.146	1.1306
0.12	0.960	1.1109
0.10	0.782	1.0915
0.08	0.612	1.0724
0.06	0.449	1.0535
0.04	0.293	1.0348
0.02	0.144	1.0164
0.01	0.071	1.0073
0.00	0.000	1.0000

POTASSIUM NITRATE

POTASSIUM NITRATE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
101.11	2.110	2.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.2739E-05	2.2450E-06
1.00E-15	5.9127E-05	4.8366E-06
1.00E-14	2.7445E-04	1.0420E-05
1.00E-13	1.2739E-03	2.2450E-05
1.00E-12	5.9127E-03	4.8366E-05
1.00E-11	2.7445E-02	1.0420E-04
1.00E-10	1.2739E-01	2.2450E-04
1.00E-09	5.9127E-01	4.8366E-04
1.00E-08	2.7445E 00	1.0420E-03
1.00E-07	1.2739E 01	2.2450E-03
1.00E-06	5.9127E 01	4.8366E-03

POTASSIUM NITRATE
(ONE-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
3.5000	0.92592	1.19702
3.0000	0.93700	1.24404
2.5000	0.94875	1.29855
2.0000	0.96234	1.37078
1.8000	0.96861	1.39980
1.6000	0.97545	1.42963
1.4000	0.98443	1.46232
1.2000	0.98868	1.49567
1.0000	0.99313	1.53278
0.9000	0.99544	1.55324
0.8000	0.99732	1.57356
0.7000	0.99827	1.59584
0.6000	0.99891	1.61798
0.5000	0.99939	1.64608
0.4000	0.99967	1.67604
0.3000	0.99984	1.70985
0.2000	0.99993	1.75150
0.1000	0.99998	1.81496
0.0900	0.99999	1.83352
0.0800	0.99999	1.85206
0.0700	0.99999	1.87060
0.0600	0.99999	1.88912
0.0500	0.99999	1.90763
0.0400	0.99999	1.92614
0.0300	0.99999	1.94461
0.0200	0.99999	1.96309
0.0100	0.99999	1.98152
0.0090	0.99999	1.98340
0.0080	0.99999	1.98519
0.0070	0.99999	1.98705
0.0060	0.99999	1.98893
0.0050	0.99999	1.99076
0.0040	0.99999	1.99261
0.0030	0.99999	1.99437
0.0020	0.99999	1.99630

0.0019	0.99993	1.99643
0.0018	0.99994	1.99653
0.0017	0.99994	1.99675
0.0016	0.99994	1.99694
0.0015	0.99995	1.99716
0.0014	0.99995	1.99741
0.0013	0.99995	1.99738
0.0012	0.99996	1.99769
0.0011	0.99996	1.99769
0.0010	0.99996	1.99809
0.0009	0.99997	1.99813
0.0008	0.99997	1.99818
0.0007	0.99997	1.99825
0.0006	0.99998	1.99834
0.0005	0.99998	1.99848
0.0004	0.99999	1.99868
0.0003	0.99999	1.99902
0.0002	0.99999	1.99765
0.0001	1.00000	2.00000

POTASSIUM NITRATE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.254E-06	0.950789	2.827E-16
4.455E-06	0.957498	3.298E-16
4.708E-06	0.964621	3.958E-16
5.042E-06	0.971967	4.947E-16
5.209E-06	0.975225	5.497E-16
5.404E-06	0.978589	6.184E-16
5.636E-06	0.982017	7.067E-16
5.917E-06	0.985619	8.245E-16
6.270E-06	0.989299	9.894E-16
6.485E-06	0.991160	1.099E-15
6.735E-06	0.993055	1.237E-15
7.032E-06	0.994948	1.413E-15
7.392E-06	0.996857	1.649E-15
7.843E-06	0.998707	1.979E-15
8.436E-06	1.000523	2.473E-15
9.271E-06	1.002248	3.298E-15
1.060E-05	1.003768	4.947E-15
1.333E-05	1.004769	9.894E-15
1.380E-05	1.004793	1.099E-14
1.435E-05	1.004801	1.237E-14
1.500E-05	1.004790	1.413E-14
1.579E-05	1.004752	1.649E-14
1.678E-05	1.004679	1.979E-14
1.807E-05	1.004554	2.473E-14
1.989E-05	1.004350	3.298E-14
2.276E-05	1.004013	4.947E-14
2.867E-05	1.003391	9.893E-14
2.970E-05	1.003297	1.099E-13
3.089E-05	1.003193	1.237E-13
3.229E-05	1.003077	1.413E-13
3.399E-05	1.002946	1.649E-13
3.612E-05	1.002796	1.979E-13
3.891E-05	1.002618	2.473E-13
4.283E-05	1.002401	3.298E-13
4.903E-05	1.002120	4.947E-13

6.177E-05	1.001703	9.993E-13
6.398E-05	1.001647	1.099E-12
6.654E-05	1.001596	1.237E-12
6.957E-05	1.001519	1.413E-12
7.323E-05	1.001445	1.649E-12
7.782E-05	1.001362	1.979E-12
8.383E-05	1.001267	2.473E-12
9.227E-05	1.001153	3.298E-12
1.056E-04	1.001010	4.947E-12
1.231E-04	1.000803	9.893E-12
1.378E-04	1.000776	1.099E-11
1.433E-04	1.000746	1.237E-11
1.499E-04	1.000714	1.413E-11
1.578E-04	1.000678	1.649E-11
1.677E-04	1.000639	1.979E-11
1.806E-04	1.000593	2.473E-11
1.988E-04	1.000539	3.298E-11
2.276E-04	1.000471	4.947E-11
2.867E-04	1.000374	9.896E-11
2.970E-04	1.000361	1.100E-10
3.089E-04	1.000347	1.237E-10
3.229E-04	1.000332	1.414E-10
3.400E-04	1.000316	1.650E-10
3.613E-04	1.000297	1.980E-10
3.892E-04	1.000276	2.475E-10
4.284E-04	1.000250	3.301E-10
4.905E-04	1.000219	4.955E-10
6.184E-04	1.000174	9.928E-10

POTASSIUM NITRATE

(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
5.165E-06	0.939456	2.827E-15
5.598E-06	0.946460	3.298E-15
1.014E-05	0.953921	3.958E-15
1.086E-05	0.961723	4.947E-15
1.122E-05	0.965206	5.497E-15
1.164E-05	0.968827	6.184E-15
1.214E-05	0.972554	7.067E-15
1.275E-05	0.976506	8.245E-15
1.351E-05	0.980601	9.894E-15
1.397E-05	0.982703	1.099E-14
1.451E-05	0.984865	1.237E-14
1.515E-05	0.987058	1.413E-14
1.592E-05	0.989307	1.649E-14
1.690E-05	0.991549	1.979E-14
1.817E-05	0.993829	2.473E-14
1.997E-05	0.996121	3.298E-14
2.283E-05	0.998376	4.947E-14
2.872E-05	1.000459	9.893E-14
2.974E-05	1.000629	1.099E-13
3.092E-05	1.000795	1.237E-13
3.233E-05	1.000956	1.413E-13
3.402E-05	1.001108	1.649E-13
3.615E-05	1.001247	1.979E-13
3.894E-05	1.001367	2.473E-13
4.285E-05	1.001453	3.298E-13
4.904E-05	1.001481	4.947E-13
6.178E-05	1.001391	9.893E-13
6.398E-05	1.001356	1.099E-12
6.654E-05	1.001327	1.237E-12
6.957E-05	1.001293	1.413E-12
7.324E-05	1.001251	1.649E-12
7.783E-05	1.001200	1.979E-12
8.384E-05	1.001137	2.473E-12
9.227E-05	1.001056	3.298E-12
1.056E-04	1.000945	4.946E-12

1.331E-04	1.000771	9.893E-12
1.378E-04	1.000747	1.099E-11
1.433E-04	1.000720	1.237E-11
1.499E-04	1.000691	1.413E-11
1.578E-04	1.000659	1.649E-11
1.677E-04	1.000622	1.979E-11
1.806E-04	1.000580	2.473E-11
1.988E-04	1.000529	3.298E-11
2.275E-04	1.000465	4.946E-11
2.867E-04	1.000371	9.893E-11
2.969E-04	1.000358	1.099E-10
3.088E-04	1.000345	1.237E-10
3.229E-04	1.000330	1.413E-10
3.39 E-04	1.000314	1.649E-10
3.612E-04	1.000295	1.979E-10
3.891E-04	1.000274	2.473E-10
4.283E-04	1.000250	3.298E-10
4.903E-04	1.000218	4.947E-10
6.177E-04	1.000173	9.896E-10
6.368E-04	1.000167	1.100E-09
6.654E-04	1.000161	1.237E-09
6.957E-04	1.000154	1.414E-09
7.325E-04	1.000146	1.650E-09
7.784E-04	1.000138	1.980E-09
8.385E-04	1.000128	2.475E-09
9.230E-04	1.000116	3.301E-09
1.057E-03	1.000102	4.955E-09
1.332E-03	1.000081	9.928E-09

POTASSIUM NITRATE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.975E-05	0.934300	2.827E-14
2.068E-05	0.941381	3.298E-14
2.185E-05	0.948995	3.958E-14
2.340E-05	0.957004	4.947E-14
2.418E-05	0.960590	5.497E-14
2.508E-05	0.964330	6.184E-14
2.616E-05	0.968193	7.067E-14
2.746E-05	0.972305	8.245E-14
2.910E-05	0.976590	9.894E-14
3.010E-05	0.978802	1.099E-13
3.126E-05	0.981086	1.237E-13
3.264E-05	0.983416	1.413E-13
3.431E-05	0.985821	1.649E-13
3.640E-05	0.988244	1.979E-13
3.916E-05	0.990737	2.473E-13
4.303E-05	0.993290	3.298E-13
4.918E-05	0.995883	4.947E-13
6.187E-05	0.998465	9.893E-13
6.407E-05	0.998702	1.099E-12
6.662E-05	0.998941	1.237E-12
6.964E-05	0.999181	1.413E-12
7.330E-05	0.999421	1.649E-12
7.788E-05	0.999659	1.979E-12
8.388E-05	0.999891	2.473E-12
9.231E-05	1.000111	3.298E-12
1.057E-04	1.000308	4.946E-12
1.331E-04	1.000449	9.893E-12
1.378E-04	1.000457	1.099E-11
1.434E-04	1.000463	1.237E-11
1.499E-04	1.000466	1.413E-11
1.578E-04	1.000465	1.649E-11
1.677E-04	1.000461	1.979E-11
1.806E-04	1.000451	2.473E-11
1.988E-04	1.000432	3.298E-11
2.276E-04	1.000400	4.946E-11

2.867E-04	1.000338	9.893E-11
2.969E-04	1.000329	1.099E-10
3.088E-04	1.000319	1.237E-10
3.229E-04	1.000307	1.413E-10
3.399E-04	1.000294	1.649E-10
3.612E-04	1.000279	1.979E-10
3.891E-04	1.000262	2.473E-10
4.283E-04	1.000240	3.298E-10
4.902E-04	1.000212	4.946E-10
6.177E-04	1.000170	9.893E-10
6.397E-04	1.000165	1.099E-09
6.654E-04	1.000158	1.237E-09
6.956E-04	1.000152	1.413E-09
7.323E-04	1.000144	1.649E-09
7.782E-04	1.000136	1.979E-09
8.383E-04	1.000127	2.473E-09
9.227E-04	1.000115	3.298E-09
1.056E-03	1.000101	4.947E-09
1.331E-03	1.000080	9.896E-09
1.378E-03	1.000078	1.100E-08
1.434E-03	1.000075	1.237E-08
1.499E-03	1.000071	1.414E-08
1.578E-03	1.000068	1.650E-08
1.677E-03	1.000064	1.980E-08
1.807E-03	1.000059	2.475E-08
1.989E-03	1.000054	3.301E-08
2.277E-03	1.000047	4.955E-08
2.870E-03	1.000037	9.928E-08

POTASSIUM NITRATE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.254E-05	0.931898	2.827E-13
4.455E-05	0.939032	3.298E-13
4.708E-05	0.946717	3.958E-13
5.042E-05	0.954822	4.947E-13
5.209E-05	0.958455	5.496E-13
5.404E-05	0.962249	6.183E-13
5.635E-05	0.966175	7.067E-13
5.917E-05	0.970361	8.245E-13
6.270E-05	0.974734	9.893E-13
6.435E-05	0.976997	1.099E-12
6.735E-05	0.979337	1.237E-12
7.032E-05	0.981731	1.413E-12
7.391E-05	0.984208	1.649E-12
7.843E-05	0.986713	1.979E-12
8.436E-05	0.989305	2.473E-12
9.271E-05	0.991978	3.298E-12
1.060E-04	0.994728	4.946E-12
1.333E-04	0.997541	9.893E-12
1.380E-04	0.997809	1.099E-11
1.435E-04	0.998082	1.237E-11
1.500E-04	0.998359	1.413E-11
1.579E-04	0.998639	1.649E-11
1.678E-04	0.998922	1.979E-11
1.807E-04	0.999206	2.473E-11
1.989E-04	0.999489	3.298E-11
2.276E-04	0.999764	4.946E-11
2.867E-04	1.000017	9.893E-11
2.970E-04	1.000040	1.099E-10
3.089E-04	1.000061	1.237E-10
3.229E-04	1.000082	1.413E-10
3.399E-04	1.000101	1.649E-10
3.612E-04	1.000118	1.979E-10
3.891E-04	1.000132	2.473E-10
4.283E-04	1.000143	3.298E-10
4.902E-04	1.000147	4.946E-10

5.177E-04	1.000138	9.892E-10
6.397E-04	1.000135	1.099E-09
[illegible]	1.000133	1.237E-09
9.355E-04	1.000129	1.413E-09
7.324E-04	1.000125	1.649E-09
7.732E-04	1.000120	1.978E-09
8.338E-04	1.000114	2.473E-09
9.227E-04	1.000106	3.297E-09
1.050E-03	1.000094	4.946E-09
1.531E-03	1.000077	9.893E-09
1.378E-03	1.000075	1.099E-08
1.438E-03	1.000072	1.237E-08
1.499E-03	1.000069	1.413E-08
1.578E-03	1.000066	1.649E-08
1.677E-03	1.000062	1.978E-08
1.806E-03	1.000058	2.473E-08
1.998E-03	1.000053	3.293E-08
2.270E-03	1.000046	4.947E-08
2.357E-03	1.000037	9.896E-08
2.977E-03	1.000036	1.099E-07
3.088E-03	1.000034	1.237E-07
3.229E-03	1.000033	1.414E-07
3.400E-03	1.000031	1.650E-07
3.613E-03	1.000030	1.980E-07
3.892E-03	1.000027	2.475E-07
4.284E-03	1.000025	3.301E-07
4.905E-03	1.000022	4.955E-07
6.184E-03	1.000017	9.923E-07

POTASSIUM NITRATE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
5.165E-05	0.930795	2.827E-12
5.598E-05	0.937944	3.298E-12
1.014E-04	0.945662	3.957E-12
1.088E-04	0.953811	4.947E-12
1.122E-04	0.957466	5.496E-12
1.164E-04	0.961285	6.183E-12
1.214E-04	0.965240	7.067E-12
1.275E-04	0.969459	8.244E-12
1.351E-04	0.973874	9.893E-12
1.397E-04	0.976160	1.099E-11
1.451E-04	0.978527	1.237E-11
1.515E-04	0.980949	1.413E-11
1.592E-04	0.983460	1.649E-11
1.690E-04	0.986004	1.979E-11
1.817E-04	0.988641	2.473E-11
1.997E-04	0.991370	3.298E-11
2.283E-04	0.994193	4.946E-11
2.872E-04	0.997112	9.893E-11
2.974E-04	0.997395	1.099E-10
3.092E-04	0.997683	1.237E-10
3.232E-04	0.997977	1.413E-10
3.402E-04	0.998276	1.649E-10
3.615E-04	0.998581	1.979E-10
3.893E-04	0.998889	2.473E-10
4.285E-04	0.999200	3.298E-10
4.904E-04	0.999512	4.946E-10
6.178E-04	0.999817	9.892E-10
6.398E-04	0.999846	1.099E-09
6.654E-04	0.999875	1.237E-09
6.957E-04	0.999904	1.413E-09
7.324E-04	0.999932	1.649E-09
7.783E-04	0.999959	1.978E-09
8.383E-04	0.999984	2.473E-09
9.227E-04	1.000009	3.297E-09
1.056E-03	1.000030	4.946E-09

1.331E-03	1.000045	9.892E-09
1.374E-03	1.000045	1.099E-08
1.433E-03	1.000046	1.237E-08
1.499E-03	1.000046	1.413E-08
1.578E-03	1.000046	1.649E-08
1.677E-03	1.000046	1.978E-08
1.805E-03	1.000045	2.473E-08
1.988E-03	1.000043	3.297E-08
2.275E-03	1.000040	4.946E-08
2.867E-03	1.000034	9.892E-08
2.959E-03	1.000033	1.099E-07
3.088E-03	1.000032	1.237E-07
3.224E-03	1.000031	1.413E-07
3.349E-03	1.000029	1.649E-07
3.612E-03	1.000026	1.979E-07
3.891E-03	1.000026	2.473E-07
4.233E-03	1.000024	3.298E-07
4.902E-03	1.000021	4.947E-07
6.177E-03	1.000017	9.895E-07
6.398E-03	1.000016	1.100E-06
6.654E-03	1.000014	1.237E-06
6.957E-03	1.000015	1.414E-06
7.324E-03	1.000014	1.650E-06
7.784E-03	1.000014	1.980E-06
8.385E-03	1.000013	2.475E-06
9.230E-03	1.000012	3.301E-06
1.057E-02	1.000010	4.955E-06
1.332E-02	1.000008	9.927E-06

POTASSIUM NITRATE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.975E-04	0.930269	2.827E-11
2.068E-04	0.937439	3.298E-11
2.185E-04	0.945172	3.957E-11
2.340E-04	0.953342	4.947E-11
2.418E-04	0.957007	5.496E-11
2.508E-04	0.960837	6.183E-11
2.616E-04	0.964807	7.060E-11
2.746E-04	0.969042	8.244E-11
2.910E-04	0.973475	9.893E-11
3.010E-04	0.975772	1.099E-10
3.126E-04	0.978150	1.237E-10
3.264E-04	0.980587	1.413E-10
3.431E-04	0.983113	1.649E-10
3.640E-04	0.985675	1.979E-10
3.915E-04	0.988333	2.473E-10
4.303E-04	0.991088	3.298E-10
4.918E-04	0.993944	4.946E-10
6.186E-04	0.996913	9.892E-10
6.407E-04	0.997203	1.099E-09
6.662E-04	0.997498	1.237E-09
6.964E-04	0.997800	1.413E-09
7.330E-04	0.998108	1.649E-09
7.768E-04	0.998422	1.978E-09
8.318E-04	0.998742	2.473E-09
9.231E-04	0.999066	3.297E-09
1.057E-03	0.999395	4.946E-09
1.331E-03	0.999724	9.892E-09
1.378E-03	0.999756	1.099E-08
1.434E-03	0.999789	1.237E-08
1.499E-03	0.999821	1.413E-08
1.578E-03	0.999853	1.649E-08
1.677E-03	0.999885	1.978E-08
1.806E-03	0.999916	2.473E-08
1.988E-03	0.999946	3.297E-08
2.275E-03	0.999975	4.946E-08

2.867E-03	1.000001	9.892E-08
2.959E-03	1.000004	1.099E-07
3.088E-03	1.000006	1.236E-07
3.229E-03	1.000008	1.413E-07
3.399E-03	1.000010	1.649E-07
3.612E-03	1.000012	1.978E-07
3.881E-03	1.000013	2.473E-07
4.293E-03	1.000014	3.297E-07
4.902E-03	1.000015	4.946E-07
6.176E-03	1.000014	9.892E-07
6.397E-03	1.000014	1.099E-06
6.653E-03	1.000013	1.237E-06
6.956E-03	1.000013	1.413E-06
7.324E-03	1.000012	1.649E-06
7.732E-03	1.000012	1.978E-06
8.334E-03	1.000011	2.473E-06
9.227E-03	1.000011	3.298E-06
1.056E-02	1.000009	4.947E-06
1.331E-02	1.000008	9.895E-06
1.378E-02	1.000007	1.099E-05
1.434E-02	1.000007	1.237E-05
1.499E-02	1.000007	1.414E-05
1.578E-02	1.000007	1.650E-05
1.677E-02	1.000006	1.980E-05
1.807E-02	1.000006	2.475E-05
1.989E-02	1.000005	3.301E-05
2.277E-02	1.000005	4.955E-05
2.870E-02	1.000004	9.927E-05

POTASSIUM NITRATE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

R[ ] (CM)	SATURATION RATIO	WATER GAINED(GM)
4.254E-04	0.930030	2.827E-10
4.456E-04	0.937205	3.298E-10
4.738E-04	0.944545	3.957E-10
5.042E-04	0.953124	4.946E-10
5.209E-04	0.956794	5.496E-10
5.404E-04	0.960630	6.183E-10
5.635E-04	0.964605	7.066E-10
5.917E-04	0.968848	8.244E-10
6.270E-04	0.973290	9.893E-10
6.435E-04	0.975592	1.099E-09
6.635E-04	0.977976	1.237E-09
7.031E-04	0.980419	1.413E-09
7.391E-04	0.982951	1.649E-09
7.843E-04	0.985522	1.978E-09
8.436E-04	0.988191	2.473E-09
9.270E-04	0.990957	3.297E-09
1.060E-03	0.993829	4.946E-09
1.333E-03	0.996821	9.892E-09
1.380E-03	0.997113	1.099E-08
1.435E-03	0.997412	1.237E-08
1.500E-03	0.997718	1.413E-08
1.579E-03	0.998030	1.649E-08
1.678E-03	0.998348	1.978E-08
1.807E-03	0.998673	2.473E-08
1.989E-03	0.999004	3.297E-08
2.276E-03	0.999340	4.946E-08
2.867E-03	0.999681	9.892E-08
2.970E-03	0.999715	1.099E-07
3.089E-03	0.999749	1.236E-07
3.229E-03	0.999783	1.413E-07
3.399E-03	0.999817	1.649E-07
3.612E-03	0.999850	1.978E-07
3.891E-03	0.999884	2.473E-07
4.283E-03	0.999917	3.297E-07
4.902E-03	0.999950	4.946E-07

6.176E-03	0.999981	9.892E-07
6.397E-03	0.999984	1.099E-06
6.653E-03	0.999987	1.236E-06
6.956E-03	0.999990	1.413E-06
7.323E-03	0.999993	1.649E-06
7.782E-03	0.999996	1.978E-06
8.383E-03	0.999998	2.473E-06
9.226E-03	1.000001	3.297E-06
1.056E-02	1.000003	4.946E-06
1.331E-02	1.000004	9.892E-06
1.378E-02	1.000005	1.099E-05
1.433E-02	1.000005	1.236E-05
1.499E-02	1.000005	1.413E-05
1.578E-02	1.000005	1.649E-05
1.677E-02	1.000005	1.978E-05
1.806E-02	1.000005	2.473E-05
1.988E-02	1.000004	3.298E-05
2.275E-02	1.000004	4.947E-05
2.867E-02	1.000003	9.895E-05
2.970E-02	1.000003	1.099E-04
3.089E-02	1.000003	1.237E-04
3.229E-02	1.000003	1.414E-04
3.400E-02	1.000003	1.650E-04
3.613E-02	1.000003	1.980E-04
3.892E-02	1.000003	2.475E-04
4.284E-02	1.000002	3.301E-04
4.905E-02	1.000002	4.954E-04
6.164E-02	1.000002	9.927E-04

POTASSIUM NITRATE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
9.165E-04	0.929919	2.827E-09
9.598E-04	0.937097	3.298E-09
1.014E-03	0.944840	3.957E-09
1.086E-03	0.953023	4.946E-09
1.122E-03	0.956696	5.496E-09
1.164E-03	0.960534	6.183E-09
1.214E-03	0.964512	7.066E-09
1.275E-03	0.968758	8.244E-09
1.351E-03	0.973204	9.892E-09
1.397E-03	0.975508	1.099E-08
1.451E-03	0.977895	1.237E-08
1.515E-03	0.980340	1.413E-08
1.592E-03	0.982877	1.649E-08
1.690E-03	0.985451	1.978E-08
1.817E-03	0.988124	2.473E-08
1.997E-03	0.990896	3.297E-08
2.283E-03	0.993715	4.946E-08
2.371E-03	0.996778	9.892E-08
2.974E-03	0.997072	1.099E-07
3.092E-03	0.997372	1.236E-07
3.232E-03	0.997680	1.413E-07
3.402E-03	0.997994	1.649E-07
3.615E-03	0.998314	1.978E-07
3.893E-03	0.998641	2.473E-07
4.285E-03	0.998975	3.297E-07
4.904E-03	0.999315	4.946E-07
6.177E-03	0.999661	9.892E-07
6.398E-03	0.999695	1.099E-06
6.654E-03	0.999730	1.236E-06
6.957E-03	0.999765	1.413E-06
7.324E-03	0.999800	1.649E-06
7.782E-03	0.999834	1.978E-06
8.383E-03	0.999869	2.473E-06
9.227E-03	0.999904	3.297E-06
1.056E-02	0.999938	4.946E-06

NOT REPRODUCIBLE

1.331E-02	0.999972	9.892E-06
1.378E-02	0.999975	1.099E-05
1.425E-02	0.999979	1.236E-05
1.478E-02	0.999982	1.413E-05
1.578E-02	0.999985	1.649E-05
1.677E-02	0.999988	1.978E-05
1.806E-02	0.999992	2.473E-05
1.984E-02	0.999995	3.297E-05
2.275E-02	0.999998	4.946E-05
2.857E-02	1.000000	9.892E-05
2.959E-02	1.000000	1.099E-04
3.089E-02	1.000001	1.236E-04
3.224E-02	1.000001	1.413E-04
3.395E-02	1.000001	1.649E-04
3.612E-02	1.000001	1.978E-04
3.891E-02	1.000001	2.473E-04
4.283E-02	1.000001	3.297E-04
4.902E-02	1.000001	4.946E-04
6.177E-02	1.000001	9.892E-04
6.339E-02	1.000001	1.099E-03
6.654E-02	1.000001	1.237E-03
6.957E-02	1.000001	1.414E-03
7.324E-02	1.000001	1.649E-03
7.759E-02	1.000001	1.980E-03
8.359E-02	1.000001	2.475E-03
9.239E-02	1.000001	3.301E-03
1.057E-01	1.000001	4.954E-03
1.332E-01	1.000001	9.927E-03

NOT REPRODUCIBLE

POTASSIUM NITRATE
(CRYSTAL MASS = 1.02E-03 GM TEMPERATURE = 25 C)

[illegible]	SATURATION RATIO	RATE [illegible]
1.974E-03	0.929857	2.626E-08
2.056E-03	0.937046	3.293E-08
2.135E-03	0.944791	3.957E-08
2.344E-03	0.952577	4.946E-08
2.413E-03	0.956650	5.496E-08
2.500E-03	0.960459	6.183E-08
2.619E-03	0.964460	7.066E-08
2.740E-03	0.968716	8.243E-08
2.910E-03	0.973164	9.692E-08
3.110E-03	0.975469	1.099E-07
3.126E-03	0.977857	1.237E-07
3.204E-03	0.980304	1.413E-07
3.431E-03	0.982342	1.649E-07
3.640E-03	0.985418	1.978E-07
3.915E-03	0.988093	2.473E-07
4.303E-03	0.990363	3.297E-07
4.913E-03	0.993750	4.946E-07
6.149E-03	0.996705	9.892E-07
6.400E-03	0.997053	1.099E-06
6.662E-03	0.997354	1.236E-06
6.954E-03	0.997652	1.413E-06
7.330E-03	0.997977	1.649E-06
7.784E-03	0.998298	1.978E-06
8.418E-03	0.998627	2.473E-06
9.231E-03	0.998952	3.297E-06
1.059E-02	0.999303	4.946E-06
1.331E-02	0.999651	9.891E-06
1.378E-02	0.999680	1.099E-05
1.434E-02	0.999721	1.236E-05
1.494E-02	0.999757	1.413E-05
1.578E-02	0.999792	1.649E-05
1.677E-02	0.999827	1.978E-05
1.806E-02	0.999862	2.473E-05
1.988E-02	0.999898	3.297E-05
2.275E-02	0.999933	4.946E-05

NOT REPRODUCIBLE

2.[illegible]E-02	0.999966	5.591E-05
2.[illegible]E-02	0.999971	1.099E-04
3.[illegible]E-02	0.999975	1.236E-04
4.[illegible]E-02	0.999978	1.413E-04
3.[illegible]E-02	0.999982	1.649E-04
3.[illegible]E-02	0.999985	1.978E-04
4.[illegible]E-02	0.999988	2.473E-04
4.[illegible]E-02	0.999992	3.297E-04
4.[illegible]E-02	0.999995	4.946E-04
6.[illegible]E-02	0.999998	9.891E-04
6.[illegible]E-02	0.999998	1.099E-03
6.[illegible]E-02	0.999999	1.236E-03
6.[illegible]E-02	0.999999	1.413E-03
7.[illegible]E-02	0.999999	1.649E-03
7.[illegible]E-02	1.000000	1.978E-03
8.[illegible]E-02	1.000000	2.473E-03
9.[illegible]E-02	1.000000	3.297E-03
1.[illegible]E-01	1.000000	4.946E-03
1.[illegible]E-01	1.000000	9.894E-03
1.[illegible]E-01	1.000000	1.099E-02
1.[illegible]E-01	1.000000	1.237E-02
1.[illegible]E-01	1.000000	1.414E-02
1.[illegible]E-01	1.000000	1.649E-02
1.[illegible]E-01	1.000000	1.980E-02
1.[illegible]E-01	1.000000	2.475E-02
1.[illegible]E-01	1.000000	3.301E-02
2.[illegible]E-01	1.000000	4.954E-02
2.[illegible]E-01	1.000000	9.926E-02

POTASSIUM NITRATE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.25[illegible]E-03	[illegible]	2.[illegible]6E-07
4.455E-03	0.937023	3.297E-07
4.[illegible]8E-03	[illegible]	3.957E-07
[illegible].042E-03	0.952965	4.946E-07
5.209E-03	[illegible]	5.496E-07
5.[illegible]4E-03	0.960463	6.182E-07
5.[illegible]5E-03	0.964447	7.066E-07
[illegible].[illegible]5E-03	0.968695	8.243E-07
6.270E-03	0.973145	9.892E-07
6.[illegible]5E-03	0.975451	1.099E-06
6.735E-03	0.977840	1.236E-06
7.[illegible]1E-03	0.980247	1.413E-06
7.[illegible]1E-03	0.982825	1.649E-06
7.[illegible]3E-03	0.985403	1.978E-06
8.[illegible]5E-03	0.988079	2.473E-06
8.[illegible]7E-03	0.990855	3.297E-06
1.[illegible]0E-02	0.993733	4.946E-06
1.[illegible]3E-02	0.996749	9.891E-06
1.330E-02	0.997044	1.099E-05
1.435E-02	0.997345	1.236E-05
1.[illegible]0E-02	0.997654	1.413E-05
1.577E-02	0.997969	1.649E-05
1.[illegible]8E-02	0.998291	1.978E-05
1.[illegible]1E-02	0.998620	2.473E-05
1.[illegible]6E-02	0.[illegible]3956	3.297E-05
2.[illegible]0E-02	0.999293	4.946E-05
2.[illegible]7E-02	0.999647	9.891E-05
2.970E-02	0.[illegible]3682	1.099E-04
3.[illegible]1E-02	0.999717	1.236E-04
3.22[illegible]E-02	0.999754	1.413E-04
3.[illegible]5E-02	0.[illegible]7[illegible]3	1.649E-04
3.[illegible]2E-02	0.999824	1.978E-04
3.[illegible]1E-02	0.[illegible]9859	2.473E-04
4.243E-02	0.999495	3.297E-04
4.[illegible]2E-02	0.[illegible]9[illegible]3	4.946E-04

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

POTASSIUM NITRATE

(CRYSTAL MASS = 1.00E-05 GM TEMPERATURE = 20.0)

RADIUS(CM)	SATURATION RATIO	WATER SATURD(GM)
5.10[illegible]-03	0.[illegible]42	2.32[illegible]E-06
5.51[illegible]-03	0.937012	3.297E-06
1.01[illegible]-02	0.[illegible]4753	3.957E-06
1.03[illegible]-02	0.[illegible]5	4.046E-06
1.12[illegible]-02	0.[illegible]6	3.495E-06
1.16[illegible]-02	0.[illegible]3	3.132E-06
1.21[illegible]-02	0.[illegible]4	3.[illegible]3E-06
1.27[illegible]-02	0.[illegible]7	3.24[illegible]E-06
1.33[illegible]-02	0.[illegible]1	3.[illegible]2E-06
1.39[illegible]-02	0.[illegible]5	1.[illegible]9E-05
1.45[illegible]-02	0.[illegible]2	1.236E-05
1.51[illegible]-02	0.[illegible]3	1.413E-05
1.57[illegible]-02	0.[illegible]3	1.[illegible]9E-05
1.[illegible]-02	0.[illegible]6	1.478E-05
1.[illegible]-02	0.[illegible]2	2.473E-05
1.[illegible]-02	0.[illegible]9	3.[illegible]7E-05
2.[illegible]-02	0.[illegible]4	4.[illegible]5E-05
2.[illegible]-02	0.[illegible]5	5.[illegible]1E-05
2.[illegible]-02	0.[illegible]0	1.[illegible]9E-04
2.[illegible]-02	0.[illegible]1	1.236E-04
2.[illegible]-02	0.[illegible]6	1.413E-04
2.[illegible]-02	0.[illegible]5	1.649E-04
2.[illegible]-02	0.[illegible]3	1.978E-04
2.[illegible]-02	0.[illegible]7	2.473E-04
4.[illegible]-02	0.[illegible]4	3.[illegible]5E-04
4.[illegible]-02	0.[illegible]5	4.[illegible]9E-04
4.[illegible]-02	0.[illegible]6	5.[illegible]1E-04
4.[illegible]-02	0.[illegible]0	1.[illegible]9E-03
4.[illegible]-02	0.[illegible]1	1.236E-03
5.[illegible]-02	0.[illegible]1	1.413E-03
5.[illegible]-02	0.[illegible]7	1.[illegible]9E-03
5.[illegible]-02	0.[illegible]2	1.978E-03
6.[illegible]-02	0.[illegible]5	2.473E-03
6.[illegible]-02	0.[illegible]3	3.[illegible]7E-03
6.[illegible]-02	0.[illegible]1	4.[illegible]5E-03

1.111E-01	0.[illegible]	[illegible]E-03
1.378E-01	0.999963	1.[illegible]E-02
1.433E-01	0.999972	1.236E-02
1.[illegible]E-01	0.999976	1.413E-02
1.578E-01	0.999979	1.643E-02
1.676E-01	0.999983	1.978E-02
1.[illegible]E-01	0.999986	2.473E-02
1.[illegible]E-01	0.999990	3.237E-02
2.275E-01	0.999993	4.945E-02
2.447E-01	0.999997	9.891E-02
2.[illegible]E-01	0.999997	1.099E-01
3.01[illegible]E-01	0.999997	1.236E-01
3.229E-01	0.999998	1.413E-01
3.[illegible]E-01	0.999998	1.649E-01
3.612E-01	0.999998	1.979E-01
3.891E-01	0.999999	2.473E-01
4.292E-01	0.999999	3.297E-01
4.902E-01	1.000000	4.946E-01
6.177E-01	1.000000	9.894E-01
6.333E-01	1.000000	1.099E 00
6.559E-01	1.000000	1.237E 00
6.957E-01	1.000000	1.414E 00
7.324E-01	1.000000	1.649E 00
7.734E-01	1.000000	1.979E 00
8.333E-01	1.000000	2.475E 00
9.227E-01	1.000000	3.301E 00
1.057E 00	1.000000	4.954E 00
1.332E 00	1.000000	9.926E 00

[illegible]

[illegible]	[illegible]LITY	[illegible]SITY
0.24	0.123	1.0023
0.22	0.093	1.0073
0.20	0.073	1.0120
0.18	0.171	1.0151
0.16	0.[illegible]4	1.0183
0.14	0.[illegible]0	1.0[illegible]
0.12	0.049	1.0762
0.10	0.[illegible]3	1.0527
0.08	0.[illegible]0	1.0414
0.06	0.031	1.0363
0.04	0.012	1.0234
0.02	0.202	1.0104
0.01	0.100	1.0065
0.00	0.000	1.0000

(16) MAGNESIUM SULFATE

NOT REPRODUCIBLE

MAGNESIUM SULFATE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
120.39	2.660	2.0

MASS (G M)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.3761E-05	2.0782E-06
1.00E-15	5.3974E-05	4.4772E-06
1.00E-14	2.9648E-04	9.6459E-06
1.00E-13	1.3761E-03	2.0782E-05
1.00E-12	6.3874E-03	4.4772E-05
1.00E-11	2.9648E-02	9.6459E-05
1.00E-10	1.3761E-01	2.0782E-04
1.00E-09	6.3874E-01	4.4772E-04
1.00E-08	2.9648E 00	9.6459E-04
1.00E-07	1.3761E 01	2.0782E-03
1.00E-06	6.3874E 01	4.4772E-03

MAGNESIUM SULFATE
(TWO-TWO ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
3.0000	0.90515	1.93901
2.5000	0.93215	1.81611
2.0000	0.95314	1.66448
1.8000	0.95997	1.58609
1.6000	0.96617	1.51478
1.4000	0.97180	1.45037
1.2000	0.97684	1.39680
1.0000	0.98126	1.35999
0.9000	0.98328	1.34882
0.8000	0.98518	1.34377
0.7000	0.98705	1.34077
0.6000	0.98886	1.34182
0.5000	0.99064	1.34892
0.4000	0.99241	1.36204
0.3000	0.99418	1.38316
0.2000	0.99596	1.42628
0.1000	0.99782	1.51332
0.0900	0.99791	1.52215
0.0800	0.99803	1.53095
0.0700	0.99818	1.54972
0.0600	0.99835	1.56846
0.0500	0.99855	1.60716
0.0400	0.99879	1.68532
0.0300	0.99905	1.76444
0.0200	0.99934	1.84301
0.0100	0.99965	1.92150
0.0090	0.99969	1.92937
0.0080	0.99972	1.93719
0.0070	0.99975	1.94502
0.0060	0.99979	1.95286
0.0050	0.99982	1.96072
0.0040	0.99985	1.96852
0.0030	0.99989	1.97644
0.0020	0.99993	1.98430
0.0019	0.99993	1.98490

0.0018	0.99994	1.98578
0.0017	0.99994	1.98653
0.0016	0.99994	1.98738
0.0015	0.99995	1.98806
0.0014	0.99995	1.98884
0.0013	0.99995	1.98974
0.0012	0.99996	1.99045
0.0011	0.99996	1.99129
0.0010	0.99996	1.99189
0.0009	0.99997	1.99262
0.0008	0.99997	1.99353
0.0007	0.99997	1.99412
0.0006	0.99998	1.99490
0.0005	0.99998	1.99600
0.0004	0.99999	1.99661
0.0003	0.99999	1.99627
0.0002	0.99999	1.99765
0.0001	1.00000	2.00000

MAGNESIUM SULFATE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.390E-06	0.925211	2.770E-16
4.339E-06	0.952120	3.324E-16
4.666E-06	0.972634	4.155E-16
4.829E-06	0.979142	4.617E-16
5.013E-06	0.984949	5.194E-16
5.242E-06	0.990093	5.936E-16
5.513E-06	0.994519	6.925E-16
5.853E-06	0.998130	8.310E-16
6.060E-06	0.999762	9.233E-16
6.299E-06	1.001163	1.039E-15
6.533E-06	1.002463	1.187E-15
6.926E-06	1.003634	1.385E-15
7.356E-06	1.004657	1.662E-15
7.920E-06	1.005528	2.077E-15
8.713E-06	1.006205	2.770E-15
9.968E-06	1.006552	4.155E-15
1.255E-05	1.006257	8.309E-15
1.300E-05	1.006100	9.232E-15
1.352E-05	1.005909	1.039E-14
1.413E-05	1.005719	1.187E-14
1.488E-05	1.005522	1.385E-14
1.581E-05	1.005308	1.662E-14
1.703E-05	1.005061	2.077E-14
1.874E-05	1.004752	2.770E-14
2.145E-05	1.004323	4.155E-14
2.703E-05	1.003614	8.309E-14
2.79[illegible]E-05	1.003511	9.232E-14
2.912E-05	1.003393	1.039E-13
3.044E-05	1.003272	1.187E-13
3.204E-05	1.003130	1.385E-13
3.403E-05	1.002957	1.662E-13
3.658E-05	1.002777	2.077E-13
4.013E-05	1.002545	2.770E-13
4.624E-05	1.002245	4.154E-13
5.823E-05	1.001802	8.309E-13

6.031E-05	1.001742	9.232E-13
6.272E-05	1.001678	1.039E-12
6.558E-05	1.0016C7	1.187E-12
6.904E-05	1.001529	1.385E-12
7.336E-05	1.001441	1.662E-12
7.903E-05	1.001340	2.077E-12
8.698E-05	1.001219	2.770E-12
9.957E-05	1.001C57	4.154E-12
1.254E-04	1.000849	8.309E-12
1.299E-04	1.000820	9.232E-12
1.351E-04	1.000789	1.039E-11
1.413E-04	1.000755	1.187E-11
1.487E-04	1.000717	1.385E-11
1.581E-04	1.000675	1.662E-11
1.703E-04	1.000627	2.077E-11
1.874E-04	1.000570	2.770E-11
2.145E-04	1.000498	4.155E-11
2.703E-04	1.000395	8.311E-11
2.800E-04	1.000382	9.235E-11
2.914E-04	1.000367	1.039E-10
3.044E-04	1.000351	1.188E-10
3.235E-04	1.000334	1.386E-10
3.406E-04	1.000314	1.663E-10
3.669E-04	1.000291	2.079E-10
4.039E-04	1.000265	2.773E-10
4.624E-04	1.000231	4.162E-10
5.833E-04	1.000183	8.338E-10

MAGNESIUM SULFATE
(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.312E-06	0.914405	2.770E-15
9.349E-06	0.941369	3.324E-15
1.005E-05	0.962140	4.155E-15
1.040E-05	0.968819	4.617E-15
1.081E-05	0.974842	5.194E-15
1.129E-05	0.980251	5.935E-15
1.188E-05	0.985006	6.925E-15
1.261E-05	0.989083	8.309E-15
1.306E-05	0.990896	9.233E-15
1.357E-05	0.992567	1.039E-14
1.418E-05	0.994172	1.187E-14
1.492E-05	0.995693	1.385E-14
1.585E-05	0.997122	1.662E-14
1.706E-05	0.998475	2.077E-14
1.877E-05	0.999744	2.770E-14
2.148E-05	1.000862	4.155E-14
2.704E-05	1.001745	8.309E-14
2.801E-05	1.001703	9.232E-14
2.913E-05	1.001679	1.039E-13
3.045E-05	1.001670	1.187E-13
3.205E-05	1.001673	1.385E-13
3.406E-05	1.001683	1.662E-13
3.669E-05	1.001694	2.077E-13
4.038E-05	1.001691	2.770E-13
4.622E-05	1.001648	4.154E-13
5.823E-05	1.001490	8.309E-13
6.031E-05	1.001460	9.232E-13
6.273E-05	1.001426	1.039E-12
6.559E-05	1.001386	1.187E-12
6.904E-05	1.001338	1.385E-12
7.333E-05	1.001281	1.662E-12
7.903E-05	1.001212	2.077E-12
8.699E-05	1.001123	2.770E-12
9.957E-05	1.001003	4.154E-12
1.229E-04	1.000817	8.309E-12

1.29?E-04	1.000731	?.232E-12
1.351E-04	1.000753	1.039E-11
1.413E-04	1.000722	1.157E-11
1.437E-04	1.000695	1.325E-11
1.581E-04	1.000659	1.662E-11
1.703E-04	1.000614	2.077E-11
1.874E-04	1.000560	2.770E-11
2.145E-04	1.000491	4.154E-11
2.703E-04	1.000392	6.309E-11
2.799E-04	1.000379	9.232E-11
2.911E-04	1.000354	1.039E-10
3.044E-04	1.000349	1.187E-10
3.204E-04	1.000332	1.385E-10
3.405E-04	1.000312	1.662E-10
3.659E-04	1.000290	2.077E-10
4.037E-04	1.000264	2.770E-10
4.622E-04	1.000231	4.155E-10
5.823E-04	1.000193	6.311E-10
6.031E-04	1.000177	9.235E-10
6.274E-04	1.000170	1.039E-09
6.559E-04	1.000153	1.187E-09
6.905E-04	1.000155	1.386E-09
7.338E-04	1.000146	1.663E-09
7.905E-04	1.000135	2.079E-09
8.701E-04	1.000123	2.773E-09
9.962E-04	1.000107	4.162E-09
1.256E-03	1.000085	8.338E-09

MAGNESIUM SULFATE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.399E-05	0.909433	2.770E-14
2.014E-05	0.936420	3.324E-14
2.166E-05	0.957308	4.155E-14
2.241E-05	0.964065	4.616E-14
2.329E-05	0.970185	5.193E-14
2.433E-05	0.975716	5.935E-14
2.559E-05	0.980621	6.924E-14
2.717E-05	0.984885	8.309E-14
2.813E-05	0.986808	9.232E-14
2.924E-05	0.988602	1.039E-13
3.055E-05	0.990347	1.187E-13
3.215E-05	0.992028	1.385E-13
3.415E-05	0.993644	1.662E-13
3.676E-05	0.995218	2.077E-13
4.044E-05	0.996759	2.770E-13
4.627E-05	0.998231	4.154E-13
5.826E-05	0.999639	8.309E-13
6.034E-05	0.999668	9.232E-13
6.275E-05	0.999721	1.039E-12
6.560E-05	0.999796	1.187E-12
6.906E-05	0.999891	1.385E-12
7.338E-05	1.000006	1.662E-12
7.904E-05	1.000135	2.077E-12
8.699E-05	1.000274	2.770E-12
9.958E-05	1.000409	4.154E-12
1.255E-04	1.000506	8.309E-12
1.299E-04	1.000510	9.232E-12
1.351E-04	1.000512	1.039E-11
1.413E-04	1.000511	1.187E-11
1.487E-04	1.000508	1.385E-11
1.581E-04	1.000500	1.662E-11
1.703E-04	1.000486	2.077E-11
1.874E-04	1.000464	2.769E-11
2.145E-04	1.000427	4.154E-11
2.703E-04	1.000360	8.308E-11

2.799E-04	1.000350	9.232E-11
2.911E-04	1.000339	1.039E-10
3.044E-04	1.000326	1.187E-10
3.204E-04	1.000312	1.385E-10
3.405E-04	1.000296	1.662E-10
3.668E-04	1.000277	2.077E-10
4.037E-04	1.000254	2.769E-10
4.621E-04	1.000224	4.154E-10
5.823E-04	1.000180	8.308E-10
6.031E-04	1.000174	9.232E-10
6.272E-04	1.000168	1.039E-09
6.556E-04	1.000161	1.187E-09
6.904E-04	1.000153	1.385E-09
7.339E-04	1.000144	1.662E-09
7.903E-04	1.000134	2.077E-09
8.693E-04	1.000122	2.770E-09
9.957E-04	1.000107	4.155E-09
1.255E-03	1.000085	8.311E-09
1.299E-03	1.000082	9.235E-09
1.351E-03	1.000079	1.039E-08
1.413E-03	1.000075	1.187E-08
1.488E-03	1.000072	1.385E-08
1.581E-03	1.000067	1.663E-08
1.703E-03	1.000063	2.079E-08
1.875E-03	1.000057	2.773E-08
2.140E-03	1.000050	4.161E-08
2.706E-03	1.000035	8.338E-08

MAGNESIUM SULFATE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.090E-05	0.937134	2.770E-13
4.339E-05	0.944131	3.324E-13
4.660E-05	0.955074	4.155E-13
4.829E-05	0.961867	4.616E-13
5.018E-05	0.968032	5.193E-13
5.242E-05	0.973618	5.935E-13
5.513E-05	0.978593	6.924E-13
5.853E-05	0.982942	8.309E-13
6.060E-05	0.984916	9.232E-13
6.299E-05	0.986767	1.039E-12
6.583E-05	0.988577	1.187E-12
6.926E-05	0.990332	1.385E-12
7.356E-05	0.992033	1.662E-12
7.920E-05	0.993710	2.077E-12
8.713E-05	0.995376	2.770E-12
9.963E-05	0.997013	4.154E-12
1.255E-04	0.998664	8.309E-12
1.300E-04	0.998725	9.232E-12
1.352E-04	0.998813	1.039E-11
1.413E-04	0.998927	1.187E-11
1.485E-04	0.999065	1.385E-11
1.581E-04	0.999228	1.662E-11
1.703E-04	0.999412	2.077E-11
1.874E-04	0.999616	2.769E-11
2.145E-04	0.999834	4.154E-11
2.703E-04	1.000049	8.308E-11
2.799E-04	1.000059	9.232E-11
2.911E-04	1.000068	1.039E-10
3.044E-04	1.000106	1.187E-10
3.204E-04	1.000123	1.385E-10
3.400E-04	1.000137	1.662E-10
3.658E-04	1.000150	2.077E-10
4.037E-04	1.000158	2.769E-10
4.621E-04	1.000160	4.154E-10
5.823E-04	1.000148	8.308E-10

6.031E-04	1.000145	9.231E-10
6.272E-04	1.000142	1.039E-09
6.558E-04	1.000138	1.187E-09
6.903E-04	1.000133	1.385E-09
7.330E-04	1.000128	1.662E-09
7.902E-04	1.000121	2.077E-09
8.698E-04	1.000112	2.770E-09
9.959E-04	1.000100	4.154E-09
1.254E-03	1.000082	8.308E-09
1.299E-03	1.000079	9.231E-09
1.351E-03	1.000076	1.039E-08
1.413E-03	1.000073	1.187E-08
1.487E-03	1.000070	1.385E-08
1.581E-03	1.000065	1.662E-08
1.703E-03	1.000061	2.077E-08
1.874E-03	1.000056	2.770E-08
2.145E-03	1.000049	4.155E-08
2.703E-03	1.000039	8.311E-08
2.800E-03	1.000038	9.235E-08
2.912E-03	1.000036	1.039E-07
3.044E-03	1.000035	1.187E-07
3.205E-03	1.000033	1.385E-07
3.406E-03	1.000031	1.663E-07
3.669E-03	1.000029	2.079E-07
4.039E-03	1.000026	2.773E-07
4.624E-03	1.000023	4.161E-07
5.829E-03	1.000018	8.338E-07

MAGNESIUM SULFATE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.812E-05	0.906069	2.770E-12
9.348E-05	0.933071	3.324E-12
1.005E-04	0.954038	4.155E-12
1.040E-04	0.960848	4.616E-12
1.081E-04	0.967034	5.193E-12
1.129E-04	0.972646	5.935E-12
1.188E-04	0.977652	6.924E-12
1.261E-04	0.982042	8.309E-12
1.305E-04	0.984039	9.232E-12
1.357E-04	0.985916	1.039E-11
1.418E-04	0.987756	1.187E-11
1.492E-04	0.989545	1.385E-11
1.585E-04	0.991287	1.662E-11
1.706E-04	0.993010	2.077E-11
1.877E-04	0.994735	2.770E-11
2.148E-04	0.996448	4.154E-11
2.704E-04	0.998211	8.308E-11
2.801E-04	0.998288	9.232E-11
2.913E-04	0.998393	1.039E-10
3.045E-04	0.998524	1.187E-10
3.205E-04	0.998682	1.385E-10
3.406E-04	0.998867	1.662E-10
3.669E-04	0.999077	2.077E-10
4.038E-04	0.999311	2.769E-10
4.622E-04	0.999567	4.154E-10
5.823E-04	0.999837	8.308E-10
6.031E-04	0.999864	9.231E-10
6.272E-04	0.999891	1.039E-09
6.558E-04	0.999918	1.187E-09
6.904E-04	0.999944	1.385E-09
7.336E-04	0.999969	1.662E-09
7.903E-04	0.999993	2.077E-09
8.698E-04	1.000016	2.769E-09
9.957E-04	1.000036	4.154E-09
1.254E-03	1.000049	8.308E-09

1.299E-03	1.000050	9.231E-09
1.351E-03	1.000050	1.039E-08
1.413E-03	1.000051	1.187E-08
1.487E-03	1.000050	1.385E-08
1.580E-03	1.000050	1.662E-08
1.703E-03	1.000048	2.077E-08
1.874E-03	1.000046	2.769E-08
2.145E-03	1.000043	4.154E-08
2.703E-03	1.000036	8.308E-08
2.799E-03	1.000035	9.231E-08
2.911E-03	1.000034	1.039E-07
3.044E-03	1.000033	1.187E-07
3.204E-03	1.000031	1.385E-07
3.405E-03	1.000030	1.662E-07
3.668E-03	1.000028	2.077E-07
4.037E-03	1.000025	2.770E-07
4.622E-03	1.000022	4.155E-07
5.823E-03	1.000018	8.311E-07
6.031E-03	1.000017	9.234E-07
6.273E-03	1.000017	1.039E-06
6.559E-03	1.000016	1.187E-06
6.905E-03	1.000015	1.385E-06
7.338E-03	1.000014	1.663E-06
7.905E-03	1.000013	2.079E-06
8.701E-03	1.000012	2.772E-06
9.962E-03	1.000011	4.161E-06
1.256E-02	1.000008	8.337E-06

MAGNESIUM SULFATE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.899E-04	0.905575	2.770E-11
2.014E-04	0.932579	3.324E-11
2.166E-04	0.953558	4.154E-11
2.241E-04	0.960375	4.616E-11
2.329E-04	0.966571	5.193E-11
2.433E-04	0.972195	5.935E-11
2.559E-04	0.977216	6.924E-11
2.717E-04	0.981624	8.309E-11
2.813E-04	0.983632	9.232E-11
2.924E-04	0.985522	1.039E-10
3.052E-04	0.987375	1.187E-10
3.215E-04	0.989180	1.385E-10
3.414E-04	0.990940	1.662E-10
3.676E-04	0.992686	2.077E-10
4.044E-04	0.994438	2.769E-10
4.627E-04	0.996196	4.154E-10
5.826E-04	0.998001	8.308E-10
6.034E-04	0.998095	9.231E-10
6.275E-04	0.998197	1.039E-09
6.560E-04	0.998337	1.187E-09
6.906E-04	0.998505	1.385E-09
7.338E-04	0.998699	1.662E-09
7.904E-04	0.998921	2.077E-09
8.699E-04	0.999170	2.769E-09
9.953E-04	0.999444	4.154E-09
1.254E-03	0.999739	8.308E-09
1.295E-03	0.999770	9.231E-09
1.351E-03	0.999800	1.038E-08
1.413E-03	0.999830	1.187E-08
1.487E-03	0.999861	1.385E-08
1.581E-03	0.999891	1.662E-08
1.703E-03	0.999921	2.077E-08
1.874E-03	0.999950	2.769E-08
2.145E-03	0.999978	4.154E-08
2.703E-03	1.000004	8.303E-08

2.799E-03	1.000006	9.231E-08
2.911E-03	1.000008	1.038E-07
3.044E-03	1.000010	1.187E-07
3.204E-03	1.000012	1.385E-07
3.405E-03	1.000013	1.662E-07
3.668E-03	1.000015	2.077E-07
4.037E-03	1.000016	2.769E-07
4.621E-03	1.000016	4.154E-07
5.823E-03	1.000015	8.308E-07
6.031E-03	1.000014	9.231E-07
6.272E-03	1.000014	1.038E-06
6.558E-03	1.000014	1.187E-06
6.903E-03	1.000013	1.385E-06
7.336E-03	1.000013	1.662E-06
7.902E-03	1.000012	2.077E-06
8.698E-03	1.000011	2.770E-06
9.957E-03	1.000010	4.154E-06
1.255E-02	1.000008	8.310E-06
1.299E-02	1.000008	9.234E-06
1.351E-02	1.000008	1.039E-05
1.413E-02	1.000007	1.187E-05
1.488E-02	1.000007	1.385E-05
1.581E-02	1.000007	1.663E-05
1.703E-02	1.000006	2.079E-05
1.875E-02	1.000006	2.772E-05
2.146E-02	1.000005	4.161E-05
2.706E-02	1.000004	8.337E-05

MAGNESIUM SULFATE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.090E-04	0.905346	2.770E-10
4.339E-04	0.932351	3.324E-10
4.665E-04	0.953335	4.154E-10
4.828E-04	0.960156	4.616E-10
5.018E-04	0.966356	5.193E-10
5.242E-04	0.971986	5.935E-10
5.513E-04	0.977014	6.924E-10
5.853E-04	0.981430	8.308E-10
6.059E-04	0.983443	9.232E-10
6.299E-04	0.985339	1.039E-09
6.582E-04	0.987199	1.187E-09
6.926E-04	0.989011	1.385E-09
7.356E-04	0.990780	1.662E-09
7.920E-04	0.992536	2.077E-09
8.712E-04	0.994300	2.769E-09
9.968E-04	0.996064	4.154E-09
1.255E-03	0.997903	8.308E-09
1.300E-03	0.997991	9.231E-09
1.352E-03	0.998107	1.038E-08
1.413E-03	0.998250	1.187E-08
1.488E-03	0.998422	1.385E-08
1.581E-03	0.998622	1.662E-08
1.703E-03	0.998849	2.077E-08
1.874E-03	0.999104	2.769E-08
2.145E-03	0.999386	4.154E-08
2.703E-03	0.999693	8.308E-08
2.799E-03	0.999725	9.231E-08
2.911E-03	0.999758	1.038E-07
3.044E-03	0.999790	1.187E-07
3.204E-03	0.999822	1.385E-07
3.405E-03	0.999855	1.662E-07
3.668E-03	0.999887	2.077E-07
4.037E-03	0.999920	2.769E-07
4.621E-03	0.999952	4.154E-07
5.822E-03	0.999982	8.308E-07

6.031E-03	0.999985	9.231E-07
6.272E-03	0.999988	1.038E-06
6.556E-03	0.999991	1.187E-06
6.903E-03	0.999994	1.385E-06
7.336E-03	0.999997	1.662E-06
7.902E-03	0.999999	2.077E-06
8.698E-03	1.000001	2.769E-06
9.956E-03	1.000004	4.154E-06
1.254E-02	1.000005	8.308E-06
1.294E-02	1.000005	9.231E-06
1.351E-02	1.000005	1.038E-05
1.413E-02	1.000005	1.187E-05
1.487E-02	1.000005	1.385E-05
1.580E-02	1.000005	1.662E-05
1.703E-02	1.000005	2.077E-05
1.874E-02	1.000005	2.769E-05
2.145E-02	1.000004	4.154E-05
2.703E-02	1.000004	8.310E-05
2.791E-02	1.000003	9.234E-05
2.912E-02	1.000003	1.039E-04
3.044E-02	1.000003	1.187E-04
3.205E-02	1.000003	1.385E-04
3.406E-02	1.000003	1.663E-04
3.659E-02	1.000003	2.079E-04
4.039E-02	1.000003	2.772E-04
4.624E-02	1.000002	4.161E-04
5.329E-02	1.000002	8.337E-04

MAGNESIUM SULFATE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.312E-04	0.905239	2.770E-09
9.343E-04	0.932245	3.323E-09
1.005E-03	0.953232	4.154E-09
1.040E-03	0.960054	4.616E-09
1.081E-03	0.966256	5.193E-09
1.129E-03	0.971889	5.934E-09
1.185E-03	0.976920	6.924E-09
1.261E-03	0.981340	8.308E-09
1.305E-03	0.983355	9.231E-09
1.357E-03	0.985254	1.039E-08
1.418E-03	0.987117	1.187E-08
1.492E-03	0.988933	1.385E-08
1.585E-03	0.990705	1.662E-08
1.700E-03	0.992466	2.077E-08
1.877E-03	0.994236	2.769E-08
2.147E-03	0.996007	4.154E-08
2.704E-03	0.997858	8.308E-08
2.801E-03	0.997947	9.231E-08
2.913E-03	0.998065	1.038E-07
3.045E-03	0.998210	1.187E-07
3.205E-03	0.998384	1.385E-07
3.406E-03	0.998586	1.662E-07
3.669E-03	0.998816	2.077E-07
4.036E-03	0.999074	2.769E-07
4.622E-03	0.999360	4.154E-07
5.823E-03	0.999672	8.308E-07
6.031E-03	0.999705	9.231E-07
6.272E-03	0.999739	1.038E-06
6.558E-03	0.999771	1.187E-06
6.903E-03	0.999804	1.385E-06
7.336E-03	0.999838	1.662E-06
7.902E-03	0.999872	2.077E-06
8.698E-03	0.999905	2.769E-06
9.956E-03	0.999939	4.154E-06
1.254E-02	0.999973	8.307E-06

1.299E-02	0.999976	9.230E-06
1.351E-02	0.999979	1.039E-05
1.413E-02	0.999982	1.187E-05
1.487E-02	0.999986	1.385E-05
1.580E-02	0.999989	1.661E-05
1.702E-02	0.999992	2.077E-05
1.874E-02	0.999995	2.769E-05
2.145E-02	0.999998	4.154E-05
2.703E-02	1.000000	8.308E-05
2.799E-02	1.000001	9.231E-05
2.911E-02	1.000001	1.038E-04
3.044E-02	1.000001	1.187E-04
3.204E-02	1.000001	1.385E-04
3.403E-02	1.000001	1.662E-04
3.668E-02	1.000001	2.077E-04
4.037E-02	1.000002	2.769E-04
4.621E-02	1.000002	4.154E-04
5.823E-02	1.000001	8.310E-04
6.031E-02	1.000001	9.234E-04
6.273E-02	1.000001	1.039E-03
6.558E-02	1.000001	1.187E-03
6.904E-02	1.000001	1.385E-03
7.337E-02	1.000001	1.663E-03
7.904E-02	1.000001	2.079E-03
8.701E-02	1.000001	2.772E-03
9.962E-02	1.000001	4.161E-03
1.256E-01	1.000001	8.337E-03

MAGNESIUM SULFATE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADI... (CM)	SATURATION RATIO	WATER GAINED(GM)
1.933E-03	0.905190	2.769E-08
2.014E-03	0.932196	3.323E-08
2.105E-03	0.953184	4.154E-08
2.241E-03	0.968007	4.616E-08
2.329E-03	0.976210	5.193E-08
2.433E-03	0.981844	5.934E-08
2.559E-03	0.986877	6.923E-08
2.717E-03	0.991298	8.308E-08
2.812E-03	0.993315	9.231E-08
2.924E-03	0.995214	1.038E-07
3.055E-03	0.996779	1.187E-07
3.215E-03	0.997896	1.385E-07
3.414E-03	0.998670	1.662E-07
3.676E-03	0.999233	2.077E-07
4.044E-03	0.999606	2.769E-07
4.627E-03	0.999831	4.154E-07
5.832E-03	0.999937	8.308E-07
6.033E-03	0.999927	9.231E-07
6.270E-03	0.999945	1.038E-06
6.550E-03	0.999991	1.187E-06
6.900E-03	0.999966	1.385E-06
7.338E-03	0.999969	1.662E-06
7.904E-03	0.999980	2.077E-06
8.699E-03	0.999990	2.769E-06
9.957E-03	0.999997	4.154E-06
1.254E-02	0.999962	8.307E-06
1.299E-02	0.999996	9.230E-06
1.351E-02	0.999729	1.038E-05
1.413E-02	0.999762	1.187E-05
1.487E-02	0.999796	1.385E-05
1.580E-02	0.999830	1.661E-05
1.703E-02	0.999864	2.077E-05
1.874E-02	0.999899	2.769E-05
2.145E-02	0.999933	4.154E-05
2.703E-02	0.999963	8.307E-05

2.79[illegible]E-02	0.999972	9.230E-05
2.911E-02	0.999975	1.038E-04
3.044E-02	0.999978	1.187E-04
3.204E-02	0.999982	1.385E-04
3.405E-02	0.999985	1.661E-04
3.[illegible]E-02	0.999989	2.077E-04
4.037E-02	0.999992	2.769E-04
4.[illegible]E-02	0.999995	4.154E-04
5.822E-02	0.999998	8.307E-04
6.030E-02	0.999999	9.230E-04
6.272E-02	0.999999	1.038E-03
6.55[illegible]E-02	0.999999	1.187E-03
6.[illegible]03E-02	0.999999	1.385E-03
7.3[illegible]E-02	1.000000	1.662E-03
7.902E-02	1.000000	2.077E-03
8.69[illegible]E-02	1.000000	2.769E-03
9.957E-02	1.000000	4.154E-03
1.255E-01	1.000000	8.310E-03
1.2[illegible]9E-01	1.000000	9.234E-03
1.351E-01	1.000000	1.039E-02
1.413E-01	1.000001	1.187E-02
1.488E-01	1.000000	1.385E-02
1.581E-01	1.000000	1.663E-02
1.703E-01	1.000000	2.079E-02
1.875E-01	1.000000	2.772E-02
2.146E-01	1.000000	4.161E-02
2.709E-01	1.000000	8.337E-02

MAGNESIUM SULFATE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.0[illegible]E-03	0.905167	2.769E-07
4.2[illegible]E-03	0.932173	3.323E-07
4.6[illegible]E-03	0.953161	4.154E-07
4.8[illegible]E-03	0.959985	4.616E-07
5.017E-03	0.966189	5.192E-07
5.241E-03	0.971823	5.934E-07
5.513E-03	0.976856	6.923E-07
5.853E-03	0.981279	8.308E-07
6.054E-03	0.983296	9.231E-07
6.299E-03	0.985196	1.038E-06
6.582E-03	0.987051	1.187E-06
6.926E-03	0.988879	1.385E-06
7.355E-03	0.990654	1.662E-06
7.920E-03	0.992418	2.077E-06
8.712E-03	0.994192	2.769E-06
9.967E-03	0.995969	4.154E-06
1.255E-02	0.997827	8.307E-06
1.300E-02	0.997918	9.230E-06
1.352E-02	0.998036	1.038E-05
1.413E-02	0.998183	1.187E-05
1.488E-02	0.998358	1.385E-05
1.581E-02	0.998561	1.661E-05
1.703E-02	0.998793	2.077E-05
1.874E-02	0.999053	2.769E-05
2.149E-02	0.999341	4.154E-05
2.703E-02	0.999658	8.307E-05
2.794E-02	0.999691	9.230E-05
2.911E-02	0.999725	1.038E-04
3.049E-02	0.999758	1.187E-04
3.204E-02	0.999792	1.385E-04
3.405E-02	0.999827	1.661E-04
3.669E-02	0.999861	2.077E-04
4.037E-02	0.999896	2.769E-04
4.621E-02	0.999931	4.154E-04
5.822E-02	0.999966	8.307E-04

6.030E-02	0.999969	9.230E-04
6.272E-02	0.999973	1.038E-03
6.557E-02	0.999976	1.187E-03
6.903E-02	0.999980	1.385E-03
7.336E-02	0.999983	1.661E-03
7.902E-02	0.999987	2.077E-03
8.677E-02	0.999990	2.769E-03
9.950E-02	0.999994	4.154E-03
1.254E-01	0.999997	8.307E-03
1.299E-01	0.999998	9.230E-03
1.351E-01	0.999998	1.038E-02
1.413E-01	0.999998	1.187E-02
1.487E-01	0.999999	1.385E-02
1.580E-01	0.999999	1.661E-02
1.702E-01	0.999999	2.077E-02
1.874E-01	0.999999	2.769E-02
2.145E-01	1.000000	4.154E-02
2.703E-01	1.000000	8.310E-02
2.796E-01	1.000000	9.233E-02
2.912E-01	1.000000	1.039E-01
3.044E-01	1.000000	1.187E-01
3.205E-01	1.000000	1.385E-01
3.406E-01	1.000000	1.663E-01
3.669E-01	1.000000	2.079E-01
4.038E-01	1.000000	2.772E-01
4.624E-01	1.000000	4.161E-01
5.829E-01	1.000000	8.337E-01

MAGNESIUM SULFATE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
8.812E-03	0.905156	2.769E-06
9.348E-03	0.932163	3.323E-06
1.005E-02	0.953151	4.154E-06
1.040E-02	0.959575	4.615E-06
1.081E-02	0.966179	5.192E-06
1.129E-02	0.971813	5.934E-06
1.188E-02	0.976847	6.923E-06
1.261E-02	0.981270	8.308E-06
1.305E-02	0.983287	9.231E-06
1.357E-02	0.985188	1.038E-05
1.418E-02	0.987053	1.187E-05
1.492E-02	0.988871	1.385E-05
1.585E-02	0.990647	1.661E-05
1.706E-02	0.992411	2.077E-05
1.877E-02	0.994186	2.769E-05
2.147E-02	0.995963	4.154E-05
2.704E-02	0.997923	8.307E-05
2.801E-02	0.997913	9.230E-05
2.913E-02	0.998032	1.038E-04
3.045E-02	0.998179	1.187E-04
3.205E-02	0.998354	1.385E-04
3.406E-02	0.998558	1.661E-04
3.669E-02	0.998790	2.077E-04
4.038E-02	0.999050	2.769E-04
4.622E-02	0.999339	4.154E-04
5.823E-02	0.999656	8.307E-04
6.031E-02	0.999689	9.230E-04
6.272E-02	0.999723	1.038E-03
6.558E-02	0.999756	1.187E-03
6.903E-02	0.999791	1.384E-03
7.336E-02	0.999825	1.661E-03
7.902E-02	0.999860	2.077E-03
8.697E-02	0.999894	2.769E-03
9.956E-02	0.999930	4.153E-03
1.254E-01	0.999965	8.307E-03

1.299E-01	0.999965	9.230E-03
1.351E-01	0.999972	1.038E-02
1.413E-01	0.999978	1.187E-02
1.487E-01	0.999979	1.384E-02
1.580E-01	0.999983	1.661E-02
1.702E-01	0.999986	2.077E-02
1.874E-01	0.999990	2.769E-02
2.145E-01	0.999993	4.153E-02
2.702E-01	0.999997	8.307E-02
2.794E-01	0.999997	9.230E-02
2.911E-01	0.999997	1.038E-01
3.044E-01	0.999998	1.187E-01
3.204E-01	0.999998	1.385E-01
3.405E-01	0.999999	1.661E-01
3.666E-01	0.999999	2.077E-01
4.037E-01	0.999999	2.769E-01
4.621E-01	1.000000	4.154E-01
5.823E-01	1.000000	8.309E-01
6.041E-01	1.000000	9.233E-01
6.273E-01	1.000000	1.039E 00
6.529E-01	1.000000	1.187E 00
6.904E-01	1.000000	1.385E 00
7.337E-01	1.000000	1.662E 00
7.904E-01	1.000000	2.078E 00
8.701E-01	1.000000	2.772E 00
9.952E-01	1.000000	4.161E 00
1.256E 00	1.000000	8.336E 00

MAGNESIUM SULFATE

PERCENTAGE	MOLALITY	DENSITY
0.24	2.623	1.2701
0.22	2.343	1.2447
0.20	2.077	1.2198
0.18	1.823	1.1955
0.16	1.582	1.1717
0.14	1.352	1.1484
0.12	1.133	1.1256
0.10	0.923	1.1034
0.08	0.722	1.0816
0.06	0.530	1.0602
0.04	0.346	1.0392
0.02	0.170	1.0186
0.00	0.000	1.0000

(17) POTASSIUM IODIDE

POTASSIUM IODIDE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
166.01	3.130	2.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.4528E-05	1.9684E-06
1.00E-15	6.7434E-05	4.2409E-06
1.00E-14	3.1300E-04	9.1367E-06
1.00E-13	1.4528E-03	1.9684E-05
1.00E-12	6.7434E-03	4.2409E-05
1.00E-11	3.1300E-02	9.1367E-05
1.00E-10	1.4528E-01	1.9684E-04
1.00E-09	6.7434E-01	4.2409E-04
1.00E-08	3.1300E 00	9.1367E-04
1.00E-07	1.4529E 01	1.9684E-03
1.00E-06	6.7434E 01	4.2409E-03

POTASSIUM IODIDE
(ONE-ONE ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
4.5000	0.84593	2.24672
4.0000	0.86317	2.19988
3.5000	0.88084	2.14519
3.0000	0.89852	2.08987
2.5000	0.91601	2.03601
2.0000	0.93336	1.98154
1.8000	0.94025	1.95975
1.6000	0.94709	1.93820
1.4000	0.95384	1.91899
1.2000	0.96055	1.89998
1.0000	0.96719	1.88324
0.9000	0.97046	1.87596
0.8000	0.97377	1.86872
0.7000	0.97709	1.85947
0.6000	0.98035	1.85434
0.5000	0.98362	1.84923
0.4000	0.98687	1.84617
0.3000	0.99013	1.84514
0.2000	0.99338	1.85014
0.1000	0.99665	1.86713
0.0900	0.99696	1.88046
0.0800	0.99728	1.89378
0.0700	0.99760	1.90709
0.0600	0.99793	1.92038
0.0500	0.99826	1.93368
0.0400	0.99860	1.94695
0.0300	0.99894	1.96023
0.0200	0.99929	1.97348
0.0100	0.99964	1.98673
0.0090	0.99968	1.98804
0.0080	0.99971	1.98933
0.0070	0.99975	1.99071
0.0060	0.99978	1.99203
0.0050	0.99982	1.99333
0.0040	0.99986	1.99468

0.0030	C.99989	1.99603
0.0020	0.99993	1.99733
0.0019	C.99993	1.99730
0.0018	C.99994	1.99750
0.0017	0.99994	1.99773
0.0016	0.99994	1.99772
0.0015	C.99995	1.99799
0.0014	C.99995	1.99800
0.0013	0.99995	1.99802
0.0012	0.99996	1.99838
0.0011	C.99996	1.99844
0.0010	C.99996	1.99851
0.0009	0.99997	1.99859
0.0008	0.99997	1.99870
0.0007	C.99997	1.99884
0.0006	C.99998	1.99903
0.0005	0.99998	1.99930
0.0004	0.99999	1.99868
0.0003	0.99999	1.99902
0.0002	0.99999	1.99972
0.0001	1.00000	2.00000

POTASSIUM IODIDE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.390E-06	0.865850	1.339E-16
3.508E-06	0.883363	1.507E-16
3.647E-06	0.901252	1.722E-16
3.815E-06	0.919001	2.009E-16
4.027E-06	0.936408	2.411E-16
4.305E-06	0.953438	3.013E-16
4.445E-06	0.960056	3.348E-16
4.607E-06	0.966636	3.767E-16
4.800E-06	0.972988	4.305E-16
5.035E-06	0.979190	5.022E-16
5.330E-06	0.985169	6.026E-16
5.510E-06	0.988060	6.696E-16
5.719E-06	0.990898	7.533E-16
5.967E-06	0.993665	8.609E-16
6.268E-06	0.996296	1.004E-15
6.646E-06	0.998813	1.205E-15
7.144E-06	1.001159	1.507E-15
7.845E-06	1.003274	2.009E-15
8.959E-06	1.005009	3.013E-15
1.126E-05	1.005994	6.026E-15
1.166E-05	1.005955	6.695E-15
1.212E-05	1.005976	7.532E-15
1.257E-05	1.005929	8.608E-15
1.334E-05	1.005849	1.004E-14
1.417E-05	1.005723	1.205E-14
1.526E-05	1.005534	1.506E-14
1.679E-05	1.005249	2.009E-14
1.922E-05	1.004805	3.013E-14
2.421E-05	1.004024	6.026E-14
2.507E-05	1.003908	6.695E-14
2.608E-05	1.003781	7.532E-14
2.726E-05	1.003640	8.608E-14
2.870E-05	1.003481	1.004E-13
3.050E-05	1.003299	1.205E-13
3.285E-05	1.003095	1.506E-13

3.615E-05	1.002826	2.009E-13
4.139E-05	1.002491	3.013E-13
5.214E-05	1.001998	6.026E-13
5.400E-05	1.001931	6.695E-13
5.617E-05	1.001859	7.532E-13
5.872E-05	1.001781	8.608E-13
6.182E-05	1.001694	1.004E-12
6.569E-05	1.001596	1.205E-12
7.077E-05	1.001484	1.506E-12
7.789E-05	1.001350	2.009E-12
8.916E-05	1.001182	3.013E-12
1.123E-04	1.000940	6.026E-12
1.163E-04	1.000898	6.695E-12
1.210E-04	1.000873	7.532E-12
1.265E-04	1.000835	8.608E-12
1.332E-04	1.000794	1.004E-11
1.415E-04	1.000747	1.205E-11
1.525E-04	1.000694	1.506E-11
1.678E-04	1.000631	2.009E-11
1.921E-04	1.000551	3.013E-11
2.420E-04	1.000437	6.027E-11
2.507E-04	1.000422	6.697E-11
2.607E-04	1.000406	7.535E-11
2.726E-04	1.000389	8.612E-11
2.870E-04	1.000369	1.005E-10
3.050E-04	1.000347	1.206E-10
3.286E-04	1.000322	1.508E-10
3.617E-04	1.000293	2.011E-10
4.141E-04	1.000256	3.018E-10
5.220E-04	1.000203	6.047E-10

POTASSIUM IODIDE

(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.304E-06	0.855117	1.339E-15
7.557E-06	0.872484	1.507E-15
7.856E-06	0.890266	1.722E-15
8.214E-06	0.907968	2.009E-15
8.675E-06	0.925420	2.411E-15
9.275E-06	0.942628	3.013E-15
9.570E-06	0.949410	3.348E-15
9.920E-06	0.956113	3.766E-15
1.034E-05	0.962678	4.304E-15
1.089E-05	0.969156	5.022E-15
1.154E-05	0.975492	6.026E-15
1.197E-05	0.978602	6.696E-15
1.232E-05	0.981681	7.533E-15
1.285E-05	0.984748	8.609E-15
1.350E-05	0.987720	1.004E-14
1.432E-05	0.990641	1.205E-14
1.539E-05	0.993476	1.506E-14
1.690E-05	0.996207	2.009E-14
1.930E-05	0.998760	3.013E-14
2.426E-05	1.000975	6.026E-14
2.512E-05	1.001144	6.695E-14
2.612E-05	1.001306	7.532E-14
2.730E-05	1.001458	8.608E-14
2.874E-05	1.001597	1.004E-13
3.053E-05	1.001718	1.205E-13
3.288E-05	1.001812	1.506E-13
3.618E-05	1.001865	2.009E-13
4.140E-05	1.001846	3.013E-13
5.215E-05	1.001674	6.026E-13
5.402E-05	1.001639	6.695E-13
5.618E-05	1.001600	7.532E-13
5.873E-05	1.001553	8.608E-13
6.183E-05	1.001499	1.004E-12
6.570E-05	1.001434	1.205E-12
7.077E-05	1.001354	1.506E-12

7.789E-05	1.001253	2.008E-12
8.916E-05	1.001117	3.013E-12
1.123E-04	1.000908	6.025E-12
1.163E-04	1.000879	6.695E-12
1.210E-04	1.000847	7.532E-12
1.265E-04	1.000813	8.608E-12
1.332E-04	1.000774	1.004E-11
1.415E-04	1.000731	1.205E-11
1.525E-04	1.000681	1.506E-11
1.678E-04	1.000621	2.008E-11
1.921E-04	1.000545	3.013E-11
2.420E-04	1.000434	6.025E-11
2.507E-04	1.000420	6.695E-11
2.607E-04	1.000404	7.532E-11
2.726E-04	1.000386	8.608E-11
2.869E-04	1.000367	1.004E-10
3.049E-04	1.000346	1.205E-10
3.285E-04	1.000321	1.506E-10
3.615E-04	1.000292	2.009E-10
4.138E-04	1.000255	3.013E-10
5.214E-04	1.000203	6.027E-10
5.401E-04	1.000196	6.697E-10
5.617E-04	1.000188	7.535E-10
5.873E-04	1.000180	8.612E-10
6.183E-04	1.000171	1.005E-09
6.571E-04	1.000161	1.206E-09
7.076E-04	1.000150	1.508E-09
7.792E-04	1.000136	2.011E-09
8.921E-04	1.000119	3.018E-09
1.125E-03	1.000094	6.047E-09

POTASSIUM IODIDE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS (CM)	SATURATION RATIO	WATER GAINED(GM)
1.524E-05	0.850181	1.339E-14
1.626E-05	0.867480	1.507E-14
1.693E-05	0.885212	1.722E-14
1.771E-05	0.902893	2.009E-14
1.869E-05	0.920364	2.411E-14
1.938E-05	0.937653	3.013E-14
2.063E-05	0.944490	3.348E-14
2.138E-05	0.951267	3.766E-14
2.228E-05	0.957930	4.304E-14
2.337E-05	0.964533	5.022E-14
2.474E-05	0.971033	6.026E-14
2.557E-05	0.974243	6.695E-14
2.654E-05	0.977437	7.532E-14
2.769E-05	0.980636	8.608E-14
2.909E-05	0.983764	1.004E-13
3.085E-05	0.986871	1.205E-13
3.316E-05	0.989932	1.506E-13
3.641E-05	0.992944	2.009E-13
4.153E-05	0.995873	3.013E-13
5.227E-05	0.998654	6.026E-13
5.412E-05	0.998900	6.695E-13
5.628E-05	0.999146	7.532E-13
5.332E-05	0.999389	8.608E-13
6.191E-05	0.999630	1.004E-12
6.577E-05	0.999864	1.205E-12
7.083E-05	1.000089	1.506E-12
7.794E-05	1.000297	2.008E-12
8.920E-05	1.000475	3.013E-12
1.124E-04	1.000585	6.025E-12
1.154E-04	1.000588	6.695E-12
1.210E-04	1.000588	7.532E-12
1.265E-04	1.000586	8.608E-12
1.332E-04	1.000580	1.004E-11
1.415E-04	1.000569	1.205E-11
1.525E-04	1.000551	1.506E-11

1.678E-04	1.000524	2.008E-11
1.921E-04	1.000480	3.013E-11
2.420E-04	1.000402	6.025E-11
2.507E-04	1.000390	6.695E-11
2.607E-04	1.000378	7.532E-11
2.726E-04	1.000364	8.607E-11
2.869E-04	1.000348	1.004E-10
3.049E-04	1.000330	1.205E-10
3.285E-04	1.000308	1.506E-10
3.615E-04	1.000282	2.008E-10
4.138E-04	1.000249	3.013E-10
5.214E-04	1.000200	6.025E-10
5.400E-04	1.000193	6.695E-10
5.617E-04	1.000186	7.532E-10
5.872E-04	1.000178	8.608E-10
6.182E-04	1.000169	1.004E-09
6.569E-04	1.000160	1.205E-09
7.076E-04	1.000148	1.506E-09
7.789E-04	1.000135	2.009E-09
8.916E-04	1.000118	3.013E-09
1.123E-03	1.000094	6.027E-09
1.164E-03	1.000091	6.697E-09
1.210E-03	1.000087	7.535E-09
1.265E-03	1.000083	8.611E-09
1.332E-03	1.000079	1.005E-08
1.416E-03	1.000075	1.206E-08
1.525E-03	1.000069	1.508E-08
1.679E-03	1.000063	2.011E-08
1.922E-03	1.000055	3.018E-08
2.423E-03	1.000044	6.047E-08

POTASSIUM IODIDE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.390E-05	0.847899	1.339E-13
3.508E-05	0.865168	1.507E-13
3.647E-05	0.882876	1.722E-13
3.813E-05	0.900546	2.009E-13
4.027E-05	0.918026	2.411E-13
4.305E-05	0.935352	3.013E-13
4.449E-05	0.942215	3.348E-13
4.607E-05	0.949027	3.766E-13
4.800E-05	0.955734	4.304E-13
5.035E-05	0.962395	5.022E-13
5.330E-05	0.968970	6.026E-13
5.510E-05	0.972226	6.695E-13
5.719E-05	0.975473	7.532E-13
5.967E-05	0.978734	8.608E-13
6.258E-05	0.981934	1.004E-12
6.646E-05	0.985125	1.205E-12
7.144E-05	0.988291	1.506E-12
7.845E-05	0.991433	2.009E-12
8.959E-05	0.994535	3.013E-12
1.126E-04	0.997578	6.025E-12
1.106E-04	0.997860	6.695E-12
1.212E-04	0.998145	7.532E-12
1.257E-04	0.998431	8.608E-12
1.334E-04	0.998718	1.004E-11
1.417E-04	0.999005	1.205E-11
1.526E-04	0.999290	1.506E-11
1.679E-04	0.999571	2.008E-11
1.922E-04	0.999840	3.013E-11
2.421E-04	1.000080	6.025E-11
2.507E-04	1.000100	6.695E-11
2.607E-04	1.000119	7.532E-11
2.726E-04	1.000137	8.607E-11
2.870E-04	1.000154	1.004E-10
3.049E-04	1.000168	1.205E-10
3.285E-04	1.000179	1.506E-10

3.615E-04	1.000185	2.008E-10
4.134E-04	1.000184	3.013E-10
5.214E-04	1.000167	6.025E-10
5.400E-04	1.000164	6.695E-10
5.617E-04	1.000160	7.531E-10
5.872E-04	1.000155	8.607E-10
6.182E-04	1.000150	1.004E-09
6.569E-04	1.000143	1.205E-09
7.076E-04	1.000135	1.506E-09
7.789E-04	1.000125	2.008E-09
8.916E-04	1.000112	3.013E-09
1.123E-03	1.000091	6.025E-09
1.103E-03	1.000088	6.695E-09
1.210E-03	1.000085	7.532E-09
1.295E-03	1.000081	8.607E-09
1.382E-03	1.000077	1.004E-08
1.415E-03	1.000073	1.205E-08
1.525E-03	1.000068	1.506E-08
1.678E-03	1.000062	2.009E-08
1.921E-03	1.000054	3.013E-08
2.420E-03	1.000043	6.027E-08
2.507E-03	1.000042	6.697E-08
2.607E-03	1.000040	7.534E-08
2.726E-03	1.000039	8.611E-08
2.870E-03	1.000037	1.005E-07
3.050E-03	1.000035	1.206E-07
3.285E-03	1.000032	1.508E-07
3.616E-03	1.000029	2.011E-07
4.141E-03	1.000026	3.018E-07
5.220E-03	1.000020	6.046E-07

POTASSIUM IODIDE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.304E-05	0.846842	1.339E-12
7.557E-05	0.864096	1.507E-12
7.956E-05	0.881793	1.722E-12
8.219E-05	0.899459	2.009E-12
8.675E-05	0.916943	2.410E-12
9.275E-05	0.934286	3.013E-12
9.576E-05	0.941161	3.348E-12
9.926E-05	0.947988	3.766E-12
1.034E-04	0.954717	4.304E-12
1.085E-04	0.961405	5.021E-12
1.148E-04	0.968014	6.026E-12
1.187E-04	0.971291	6.695E-12
1.232E-04	0.974562	7.532E-12
1.285E-04	0.977852	8.608E-12
1.350E-04	0.981085	1.004E-11
1.432E-04	0.984316	1.205E-11
1.539E-04	0.987530	1.506E-11
1.690E-04	0.990733	2.008E-11
1.930E-04	0.993915	3.013E-11
2.426E-04	0.997080	6.025E-11
2.512E-04	0.997378	6.695E-11
2.612E-04	0.997680	7.532E-11
2.730E-04	0.997986	8.607E-11
2.874E-04	0.998295	1.004E-10
3.053E-04	0.998606	1.205E-10
3.288E-04	0.998920	1.506E-10
3.618E-04	0.999234	2.008E-10
4.140E-04	0.999545	3.013E-10
5.215E-04	0.999845	6.025E-10
5.401E-04	0.999874	6.695E-10
5.618E-04	0.999902	7.531E-10
5.873E-04	0.999929	8.607E-10
6.183E-04	0.999956	1.004E-09
6.570E-04	0.999982	1.205E-09
7.077E-04	1.000006	1.506E-09

7.789E-04	1.000028	2.008E-09
8.916E-04	1.000047	3.012E-09
1.123E-03	1.000058	6.025E-09
1.163E-03	1.000059	6.694E-09
1.210E-03	1.000059	7.531E-09
1.259E-03	1.000059	8.607E-09
1.332E-03	1.000058	1.004E-08
1.415E-03	1.000057	1.205E-08
1.525E-03	1.000055	1.506E-08
1.678E-03	1.000052	2.008E-08
1.921E-03	1.000049	3.012E-08
2.420E-03	1.000040	6.025E-08
2.507E-03	1.000037	6.694E-08
2.607E-03	1.000034	7.531E-08
2.726E-03	1.000046	8.607E-08
2.859E-03	1.000035	1.004E-07
3.049E-03	1.000033	1.205E-07
3.235E-03	1.000031	1.506E-07
3.515E-03	1.000028	2.008E-07
4.138E-03	1.000025	3.013E-07
5.214E-03	1.000020	6.027E-07
5.401E-03	1.000019	6.697E-07
5.617E-03	1.000019	7.534E-07
5.873E-03	1.000018	8.611E-07
6.184E-03	1.000017	1.005E-06
6.578E-03	1.000016	1.206E-06
7.073E-03	1.000015	1.508E-06
7.771E-03	1.000013	2.011E-06
8.921E-03	1.000012	3.018E-06
1.125E-02	1.000009	6.046E-06

POTASSIUM IODIDE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.577E-04	0.846352	1.339E-11
1.723E-04	0.863599	1.507E-11
1.871E-04	0.881291	1.722E-11
1.771E-04	0.898955	2.009E-11
1.959E-04	0.916441	2.410E-11
1.999E-04	0.933792	3.013E-11
2.063E-04	0.940672	3.348E-11
2.139E-04	0.947507	3.766E-11
2.225E-04	0.954245	4.304E-11
2.337E-04	0.960945	5.021E-11
2.474E-04	0.967571	6.025E-11
2.597E-04	0.970858	6.695E-11
2.654E-04	0.974140	7.532E-11
2.729E-04	0.977443	8.608E-11
2.809E-04	0.980691	1.004E-10
3.045E-04	0.983941	1.205E-10
3.310E-04	0.987177	1.506E-10
3.641E-04	0.990409	2.008E-10
4.153E-04	0.993627	3.013E-10
5.227E-04	0.996848	6.025E-10
5.412E-04	0.997154	6.695E-10
5.527E-04	0.997465	7.531E-10
5.932E-04	0.997780	8.607E-10
6.131E-04	0.998099	1.004E-09
6.577E-04	0.998421	1.205E-09
7.083E-04	0.998748	1.506E-09
7.794E-04	0.999077	2.008E-09
8.920E-04	0.999408	3.012E-09
1.124E-03	0.999736	6.025E-09
1.164E-03	0.999764	6.694E-09
1.210E-03	0.999801	7.531E-09
1.265E-03	0.999833	8.607E-09
1.332E-03	0.999864	1.004E-08
1.415E-03	0.999895	1.205E-08
1.520E-03	0.999926	1.506E-08

NOT REPRODUCIBLE

1.[illegible]E-03	1.000[illegible]	2.003E-03
1.[illegible]E-03	1.[illegible]	2.[illegible]E-03
2.420E-03	1.[illegible]	3.[illegible]E-03
2.[illegible]E-03	1.000010	5.494E-03
2.[illegible]E-03	1.000014	7.531E-03
3.[illegible]E-03	1.000014	1.[illegible]E-02
3.[illegible]E-03	1.000016	1.[illegible]E-02
3.[illegible]E-03	1.[illegible]	1.[illegible]E-02
3.[illegible]E-03	1.000018	1.515E-02
3.[illegible]E-03	1.000018	2.003E-02
3.515E-03	1.000018	2.[illegible]E-02
4.[illegible]E-03	1.000018	3.[illegible]E-02
5.214E-03	1.000017	5.494E-02
5.[illegible]E-03	1.000016	7.531E-02
5.[illegible]E-03	1.000015	9.607E-02
5.372E-03	1.000015	1.004E-01
6.132E-03	1.000014	1.205E-01
6.599E-03	1.000014	1.505E-01
7.076E-03	1.000013	2.003E-01
7.749E-03	1.000011	3.013E-01
8.916E-03	1.000008	5.027E-01
1.123E-02	1.000007	6.627E-01
1.154E-02	1.000006	7.534E-01
1.210E-02	1.000006	8.611E-01
1.265E-02	1.000006	1.005E+00
1.332E-02	1.000005	1.206E+00
1.416E-02	1.000007	1.507E+00
1.525E-02	1.000007	2.011E+00
1.679E-02	1.000006	3.018E+00
1.922E-02	1.000005	6.046E+00
2.423E-02	1.000004	

POTASSIUM IODIDE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.390E-04	0.845125	1.339E-10
3.508E-04	0.863369	1.507E-10
3.646E-04	0.881059	1.722E-10
3.815E-04	0.898721	2.009E-10
4.026E-04	0.916208	2.410E-10
4.305E-04	0.933562	3.013E-10
4.445E-04	0.940445	3.348E-10
4.607E-04	0.947283	3.766E-10
4.800E-04	0.954026	4.304E-10
5.035E-04	0.960732	5.021E-10
5.330E-04	0.967365	6.025E-10
5.509E-04	0.970656	6.695E-10
5.718E-04	0.973944	7.532E-10
5.966E-04	0.977253	8.607E-10
6.258E-04	0.980509	1.004E-09
6.646E-04	0.983767	1.205E-09
7.143E-04	0.987013	1.506E-09
7.844E-04	0.990257	2.008E-09
8.959E-04	0.993494	3.013E-09
1.126E-03	0.996741	6.025E-09
1.166E-03	0.997050	6.694E-09
1.212E-03	0.997365	7.531E-09
1.267E-03	0.997684	8.607E-09
1.334E-03	0.998007	1.004E-08
1.417E-03	0.998336	1.205E-08
1.526E-03	0.998668	1.506E-08
1.679E-03	0.999005	2.008E-08
1.922E-03	0.999344	3.012E-08
2.421E-03	0.999686	6.025E-08
2.507E-03	0.999720	6.694E-08
2.607E-03	0.999754	7.531E-08
2.726E-03	0.999788	8.607E-08
2.870E-03	0.999822	1.004E-07
3.049E-03	0.999855	1.205E-07
3.285E-03	0.999889	1.506E-07

3.615E-03	0.999921	2.008E-07
4.138E-03	0.999954	3.012E-07
5.214E-03	0.999934	6.025E-07
5.400E-03	0.999987	6.694E-07
5.616E-03	0.999990	7.531E-07
5.872E-03	0.999993	8.607E-07
6.192E-03	0.999996	1.004E-06
6.599E-03	0.999998	1.205E-06
7.076E-03	1.000001	1.506E-06
7.783E-03	1.000003	2.008E-06
8.915E-03	1.000005	3.012E-06
1.123E-02	1.000006	6.025E-06
1.163E-02	1.000006	6.694E-06
1.210E-02	1.000006	7.531E-06
1.265E-02	1.000006	8.607E-06
1.332E-02	1.000005	1.004E-05
1.415E-02	1.000006	1.205E-05
1.525E-02	1.000005	1.506E-05
1.678E-02	1.000005	2.008E-05
1.921E-02	1.000005	3.013E-05
2.420E-02	1.000004	6.027E-05
2.507E-02	1.000004	6.696E-05
2.607E-02	1.000004	7.534E-05
2.726E-02	1.000004	8.611E-05
2.870E-02	1.000003	1.005E-04
3.050E-02	1.000003	1.206E-04
3.285E-02	1.000003	1.507E-04
3.616E-02	1.000003	2.011E-04
4.141E-02	1.000002	3.018E-04
5.220E-02	1.000002	6.046E-04

POTASSIUM IODIDE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.304E-04	0.846019	1.339E-09
7.557E-04	0.863262	1.506E-09
7.856E-04	0.880951	1.722E-09
8.219E-04	0.898613	2.009E-09
8.675E-04	0.916100	2.410E-09
9.275E-04	0.933456	3.013E-09
9.575E-04	0.940340	3.347E-09
9.926E-04	0.947180	3.766E-09
1.034E-03	0.953924	4.304E-09
1.085E-03	0.960633	5.021E-09
1.148E-03	0.967270	6.025E-09
1.187E-03	0.970563	6.695E-09
1.232E-03	0.973853	7.531E-09
1.285E-03	0.977165	8.607E-09
1.350E-03	0.980424	1.004E-08
1.432E-03	0.983686	1.205E-08
1.539E-03	0.986937	1.506E-08
1.690E-03	0.990187	2.008E-08
1.930E-03	0.993432	3.012E-08
2.426E-03	0.996691	6.025E-08
2.512E-03	0.997002	6.694E-08
2.612E-03	0.997313	7.531E-08
2.730E-03	0.997639	8.607E-08
2.873E-03	0.997965	1.004E-07
3.053E-03	0.998296	1.205E-07
3.288E-03	0.998631	1.506E-07
3.618E-03	0.998971	2.008E-07
4.140E-03	0.999315	3.012E-07
5.215E-03	0.999663	6.025E-07
5.401E-03	0.999697	6.694E-07
5.617E-03	0.999732	7.531E-07
5.873E-03	0.999767	8.607E-07
6.182E-03	0.999802	1.004E-06
6.570E-03	0.999837	1.205E-06
7.077E-03	0.999871	1.506E-06

7.769E-03	0.999996	2.008E-05
9.916E-03	0.999940	3.012E-05
1.123E-02	0.999973	6.025E-06
1.163E-02	0.999977	6.694E-06
1.210E-02	0.999980	7.531E-06
1.255E-02	0.999983	8.606E-06
1.332E-02	0.999986	1.004E-05
1.415E-02	0.999989	1.205E-05
1.525E-02	0.999993	1.506E-05
1.678E-02	0.999996	2.008E-05
1.921E-02	0.999998	3.012E-05
2.420E-02	1.000001	6.025E-05
2.536E-02	1.000001	6.694E-05
2.687E-02	1.000001	7.531E-05
2.726E-02	1.000001	8.607E-05
2.869E-02	1.000002	1.004E-04
3.049E-02	1.000002	1.205E-04
3.284E-02	1.000002	1.506E-04
3.615E-02	1.000002	2.008E-04
4.138E-02	1.000002	3.013E-04
5.214E-02	1.000002	6.026E-04
5.431E-02	1.000002	6.696E-04
5.617E-02	1.000002	7.534E-04
5.873E-02	1.000002	8.610E-04
6.133E-02	1.000001	1.005E-03
6.570E-02	1.000001	1.206E-03
7.078E-02	1.000001	1.507E-03
7.791E-02	1.000001	2.010E-03
8.920E-02	1.000001	3.018E-03
1.125E-01	1.000001	6.046E-03

POTASSIUM IODIDE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.574E-03	0.845970	1.339E-08
1.628E-03	0.863212	1.506E-08
1.692E-03	0.880900	1.722E-08
1.771E-03	0.898562	2.008E-08
1.869E-03	0.916050	2.410E-08
1.998E-03	0.933406	3.013E-08
2.063E-03	0.940291	3.347E-08
2.138E-03	0.947131	3.766E-08
2.228E-03	0.953877	4.304E-08
2.337E-03	0.960587	5.021E-08
2.474E-03	0.967225	6.025E-08
2.557E-03	0.970520	6.694E-08
2.654E-03	0.973811	7.531E-08
2.769E-03	0.977124	8.607E-08
2.909E-03	0.980385	1.004E-07
3.085E-03	0.983649	1.205E-07
3.316E-03	0.986902	1.506E-07
3.641E-03	0.990155	2.008E-07
4.158E-03	0.993403	3.012E-07
5.227E-03	0.996668	6.025E-07
5.412E-03	0.996980	6.694E-07
5.627E-03	0.997297	7.531E-07
5.882E-03	0.997619	8.607E-07
6.191E-03	0.997946	1.004E-06
6.577E-03	0.998277	1.205E-06
7.083E-03	0.998614	1.506E-06
7.794E-03	0.998955	2.008E-06
8.920E-03	0.999301	3.012E-06
1.124E-02	0.999652	6.025E-06
1.164E-02	0.999687	6.694E-06
1.210E-02	0.999722	7.531E-06
1.265E-02	0.999757	8.606E-06
1.332E-02	0.999793	1.004E-05
1.415E-02	0.999828	1.205E-05
1.525E-02	0.999863	1.506E-05

1.678E-02	0.999858	2.008E-05
1.921E-02	0.999934	3.012E-05
2.420E-02	0.999968	6.024E-05
2.507E-02	0.999972	6.694E-05
2.607E-02	0.999975	7.531E-05
2.726E-02	0.999979	8.606E-05
2.859E-02	0.999982	1.004E-04
3.049E-02	0.999985	1.205E-04
3.284E-02	0.999989	1.506E-04
3.615E-02	0.999992	2.008E-04
4.138E-02	0.999995	3.012E-04
5.214E-02	0.999998	6.024E-04
5.400E-02	0.999999	6.694E-04
5.616E-02	0.999999	7.531E-04
5.872E-02	0.999999	8.606E-04
6.182E-02	1.000000	1.004E-03
6.569E-02	1.000000	1.205E-03
7.076E-02	1.000000	1.506E-03
7.783E-02	1.000000	2.008E-03
8.916E-02	1.000000	3.013E-03
1.123E-01	1.000001	6.026E-03
1.164E-01	1.000001	6.696E-03
1.210E-01	1.000001	7.534E-03
1.265E-01	1.000001	8.610E-03
1.332E-01	1.000001	1.005E-02
1.416E-01	1.000001	1.206E-02
1.525E-01	1.000001	1.507E-02
1.679E-01	1.000001	2.010E-02
1.922E-01	1.000000	3.017E-02
2.423E-01	1.000000	6.046E-02

POTASSIUM IODIDE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.390E-03	0.845948	1.339E-07
3.508E-03	0.863189	1.506E-07
3.646E-03	0.880877	1.722E-07
3.815E-03	0.898539	2.008E-07
4.026E-03	0.916027	2.410E-07
4.305E-03	0.933383	3.013E-07
4.444E-03	0.940269	3.347E-07
4.607E-03	0.947109	3.766E-07
4.800E-03	0.953855	4.304E-07
5.035E-03	0.960566	5.021E-07
5.330E-03	0.967205	6.025E-07
5.509E-03	0.970500	6.694E-07
5.716E-03	0.973792	7.531E-07
5.966E-03	0.977105	8.607E-07
6.268E-03	0.980306	1.004E-06
6.646E-03	0.983631	1.205E-06
7.143E-03	0.986885	1.506E-06
7.844E-03	0.990140	2.008E-06
8.859E-03	0.993390	3.012E-06
1.125E-02	0.996657	6.025E-06
1.169E-02	0.996969	6.694E-06
1.212E-02	0.997287	7.531E-06
1.257E-02	0.997609	8.606E-06
1.334E-02	0.997936	1.004E-05
1.417E-02	0.998269	1.205E-05
1.526E-02	0.998606	1.506E-05
1.679E-02	0.998948	2.008E-05
1.922E-02	0.999295	3.012E-05
2.421E-02	0.999647	6.024E-05
2.507E-02	0.999682	6.694E-05
2.607E-02	0.999717	7.530E-05
2.725E-02	0.999753	8.606E-05
2.870E-02	0.999788	1.004E-04
3.049E-02	0.999824	1.205E-04
3.235E-02	0.999859	1.506E-04

3.513E-02	0.999895	2.008E-04
4.134E-02	0.999931	3.012E-04
5.214E-02	0.999966	5.024E-04
5.400E-02	0.999970	6.694E-04
5.616E-02	0.999973	7.530E-04
5.872E-02	0.999977	8.606E-04
6.182E-02	0.999980	1.004E-03
6.569E-02	0.999984	1.205E-03
7.076E-02	0.999987	1.506E-03
7.788E-02	0.999991	2.008E-03
8.915E-02	0.999994	3.012E-03
1.123E-01	0.999997	6.024E-03
1.163E-01	0.999998	6.694E-03
1.210E-01	0.999998	7.530E-03
1.265E-01	0.999998	8.606E-03
1.332E-01	0.999999	1.004E-02
1.415E-01	0.999999	1.205E-02
1.524E-01	0.999999	1.506E-02
1.678E-01	1.000000	2.008E-02
1.921E-01	1.000000	3.013E-02
2.420E-01	1.000000	6.026E-02
2.507E-01	1.000000	6.696E-02
2.607E-01	1.000000	7.533E-02
2.726E-01	1.000000	8.610E-02
2.870E-01	1.000000	1.005E-01
3.050E-01	1.000000	1.206E-01
3.285E-01	1.000000	1.507E-01
3.616E-01	1.000000	2.010E-01
4.140E-01	1.000000	3.017E-01
5.220E-01	1.000000	6.046E-01

POTASSIUM IODIDE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS (CM)	SATURATION RATIO	WATER GAINED(GM)
7.304E-03	0.845937	1.339E-06
7.557E-03	0.863178	1.506E-06
7.850E-03	0.880666	1.721E-06
8.219E-03	0.898528	2.008E-06
8.674E-03	0.916016	2.410E-06
9.275E-03	0.933373	3.012E-06
9.575E-03	0.940258	3.347E-06
9.925E-03	0.947099	3.765E-06
1.034E-02	0.953845	4.303E-06
1.085E-02	0.960556	5.021E-06
1.148E-02	0.967195	6.025E-06
1.187E-02	0.970490	6.694E-06
1.232E-02	0.973783	7.531E-06
1.285E-02	0.977096	8.607E-06
1.350E-02	0.980358	1.004E-05
1.432E-02	0.983623	1.205E-05
1.539E-02	0.986878	1.506E-05
1.690E-02	0.990133	2.008E-05
1.930E-02	0.993394	3.012E-05
2.426E-02	0.996652	6.024E-05
2.512E-02	0.996965	6.694E-05
2.612E-02	0.997282	7.530E-05
2.730E-02	0.997605	8.606E-05
2.873E-02	0.997932	1.004E-04
3.053E-02	0.998265	1.205E-04
3.288E-02	0.998602	1.506E-04
3.618E-02	0.998945	2.008E-04
4.140E-02	0.999292	3.012E-04
5.215E-02	0.999644	6.024E-04
5.401E-02	0.999680	6.694E-04
5.617E-02	0.999715	7.530E-04
5.873E-02	0.999751	8.606E-04
6.182E-02	0.999786	1.004E-03
6.570E-02	0.999822	1.205E-03
7.077E-02	0.999858	1.506E-03

7.7[illegible]E-02	C.[illegible]93	2.008E-03
[illegible]E-02	C.[illegible]27	3.012E-03
1.123E-01	C.[illegible]965	6.024E-03
1.163E-01	0.[illegible]96[illegible]	6.693E-03
1.210E-01	0.[illegible]72	7.530E-03
1.265E-01	C.[illegible]976	8.606E-03
1.342E-01	C.[illegible]37[illegible]	1.034E-02
1.415E-01	C.[illegible]93	1.205E-02
1.524E-01	C.[illegible]926	1.506E-02
1.673E-01	C.[illegible]990	2.009E-02
1.921E-01	C.[illegible]94	3.012E-02
2.420E-01	C.[illegible]97	5.024E-02
2.533E-01	C.[illegible]97	5.694E-02
2.637E-01	0.[illegible]95	7.530E-02
2.725E-01	0.[illegible]93	8.636E-02
2.[illegible]E-01	0.[illegible]938	1.004E-01
3.049E-01	C.[illegible]969	1.205E-01
3.254E-01	C.[illegible]95	1.506E-01
3.61[illegible]E-01	C.[illegible]9	2.008E-01
4.138E-01	1.000000	3.012E-01
5.214E-01	1.000000	6.026E-01
5.401E-01	1.000000	6.696E-01
5.617E-01	1.000000	7.533E-01
5.873E-01	1.000000	8.610E-01
6.1[illegible]E-01	1.000000	1.005E 00
6.570E-01	1.000000	1.206E 00
7.074E-01	1.000000	1.507E 00
7.791E-01	1.000000	2.010E 00
8.[illegible]E-01	1.000000	3.017E 00
1.129E 00	1.000000	6.045E 00

POTASSIUM IODIDE

PERCENTAGE	MOLALITY	DENSITY
0.50	6.024	1.5458
0.45	4.929	1.4672
0.40	4.016	1.3959
0.35	3.244	1.3308
0.30	2.592	1.2712
0.24	1.902	1.2060
0.22	1.699	1.1857
0.20	1.506	1.1660
0.18	1.322	1.1469
0.16	1.147	1.1284
0.14	0.981	1.1104
0.12	0.821	1.0930
0.10	0.669	1.0761
0.08	0.524	1.0597
0.06	0.384	1.0437
0.04	0.251	1.0281
0.02	0.123	1.0130
0.01	0.061	1.0055
0.00	0.000	1.0000

(18) ZINC SULFATE

ZINC SULFATE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
161.45	3.740	2.0

MASS (GM)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.5416E-05	1.8550E-06
1.00E-15	7.1557E-05	3.9965E-06
1.00E-14	3.3214E-04	8.6102E-06
1.00E-13	1.5416E-03	1.8550E-05
1.00E-12	7.1557E-03	3.9965E-05
1.00E-11	3.3214E-02	8.6102E-05
1.00E-10	1.5416E-01	1.8550E-04
1.00E-09	7.1557E-01	3.9965E-04
1.00E-08	3.3214E 00	8.6102E-04
1.00E-07	1.5416E 01	1.8550E-03
1.00E-06	7.1557E 01	3.9965E-03

ZINC SULFATE
(TWO-TWO ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	VAN'T HOFF FACTOR
3.5000	C.87786	2.20660
3.0000	0.91113	1.80467
2.5000	0.93746	1.48132
2.0000	0.95755	1.23050
1.8000	C.96396	1.15303
1.6000	0.96974	1.08255
1.4000	0.97470	1.02913
1.2000	0.97908	0.98841
1.0000	0.98293	0.96428
0.9000	0.98475	0.95532
0.8000	C.98646	0.95248
0.7000	0.98814	0.95167
0.6000	C.98976	0.95691
0.5000	C.99134	0.97021
0.4000	0.99293	0.98750
0.3000	0.99455	1.01477
C.2000	0.99617	1.06805
0.1000	C.99788	1.18125
0.0900	C.99796	1.26329
0.0800	0.99806	1.34530
0.0700	0.99820	1.42728
0.0600	C.99837	1.50923
0.0500	C.99857	1.59113
0.0400	C.99880	1.67300
0.0300	0.99905	1.75482
0.0200	C.99934	1.83659
0.0100	0.99965	1.91832
0.0090	C.99969	1.92647
0.0080	C.99972	1.93466
0.0070	C.99976	1.94283
0.006C	0.99979	1.95100
0.0050	0.99982	1.95915
0.0040	C.99986	1.96728
0.0030	0.99989	1.97548
0.002C	0.99993	1.98348

0.0019	0.99993	1.99340
0.0018	0.99994	1.99350
0.0017	0.99994	1.99360
0.0016	0.99994	1.99368
0.0015	0.99995	1.99375
0.0014	0.99995	1.99385
0.0013	0.99995	1.99391
0.0012	0.99996	1.99401
0.0011	0.99996	1.99092
0.0010	0.99996	1.99147
0.0009	0.99997	1.99262
0.0008	0.99997	1.99301
0.0007	0.99997	1.99412
0.0006	0.99998	1.99490
0.0005	0.99998	1.99517
0.0004	0.99999	1.99661
0.0003	0.99999	1.99627
0.0002	0.99999	1.99765
0.0001	1.00000	2.00600

ZINC SULFATE

(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.503E-06	0.897479	1.771E-16
3.686E-06	0.931214	2.066E-16
3.914E-06	0.957693	2.479E-16
4.214E-06	0.977576	3.098E-16
4.363E-06	0.983779	3.443E-16
4.536E-06	0.989271	3.873E-16
4.741E-06	0.993839	4.426E-16
4.989E-06	0.997703	5.164E-16
5.300E-06	1.000879	6.196E-16
5.488E-06	1.002294	6.885E-16
5.707E-06	1.003538	7.745E-16
5.965E-06	1.004680	8.852E-16
6.278E-06	1.005669	1.033E-15
6.670E-06	1.006494	1.239E-15
7.184E-06	1.007184	1.549E-15
7.905E-06	1.007659	2.065E-15
9.046E-06	1.007770	3.098E-15
1.139E-05	1.007204	6.196E-15
1.180E-05	1.006972	6.884E-15
1.227E-05	1.006744	7.745E-15
1.283E-05	1.006514	8.851E-15
1.351E-05	1.006275	1.033E-14
1.435E-05	1.006016	1.239E-14
1.546E-05	1.005717	1.549E-14
1.702E-05	1.005349	2.065E-14
1.948E-05	1.004845	3.098E-14
2.454E-05	1.004029	6.196E-14
2.642E-05	1.003912	6.884E-14
2.844E-05	1.003783	7.745E-14
2.754E-05	1.003640	8.851E-14
2.910E-05	1.003480	1.033E-13
3.092E-05	1.003297	1.239E-13
3.331E-05	1.003083	1.549E-13
3.666E-05	1.002823	2.065E-13
4.197E-05	1.002488	3.098E-13

5.288E-05	1.001943	6.196E-13
5.477E-05	1.001929	6.884E-13
5.666E-05	1.001917	7.745E-13
5.955E-05	1.001776	8.851E-13
6.269E-05	1.001691	1.033E-12
6.562E-05	1.001584	1.239E-12
7.176E-05	1.001492	1.549E-12
7.838E-05	1.001349	2.065E-12
9.042E-05	1.001160	3.098E-12
1.139E-04	1.000939	6.196E-12
1.130E-04	1.000907	6.884E-12
1.227E-04	1.000872	7.745E-12
1.283E-04	1.000834	8.851E-12
1.351E-04	1.000793	1.033E-11
1.435E-04	1.000746	1.239E-11
1.546E-04	1.000693	1.549E-11
1.702E-04	1.000630	2.065E-11
1.948E-04	1.000550	3.098E-11
2.459E-04	1.000437	6.198E-11
2.542E-04	1.000422	6.887E-11
2.644E-04	1.000406	7.748E-11
2.765E-04	1.000388	8.855E-11
2.910E-04	1.000369	1.033E-10
3.093E-04	1.000347	1.240E-10
3.342E-04	1.000322	1.550E-10
3.658E-04	1.000293	2.068E-10
4.199E-04	1.000255	3.103E-10
5.294E-04	1.000203	6.218E-10

ZINC SULFATE

(CRYSTAL MASS = 1.00E-15 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.548E-06	0.886914	1.771E-15
7.941E-06	0.920400	2.066E-15
8.433E-06	0.946797	2.479E-15
9.078E-06	0.966792	3.098E-15
9.400E-06	0.973108	3.443E-15
9.773E-06	0.978758	3.873E-15
1.021E-05	0.983538	4.426E-15
1.075E-05	0.987680	5.164E-15
1.142E-05	0.991218	6.196E-15
1.182E-05	0.992853	6.885E-15
1.229E-05	0.994350	7.745E-15
1.285E-05	0.995784	8.852E-15
1.353E-05	0.997114	1.033E-14
1.437E-05	0.998343	1.239E-14
1.548E-05	0.999523	1.549E-14
1.703E-05	1.000611	2.065E-14
1.949E-05	1.001536	3.098E-14
2.455E-05	1.002195	6.196E-14
2.543E-05	1.002131	6.884E-14
2.644E-05	1.002084	7.745E-14
2.765E-05	1.002052	8.851E-14
2.910E-05	1.002032	1.033E-13
3.093E-05	1.002019	1.239E-13
3.331E-05	1.002003	1.549E-13
3.666E-05	1.001970	2.065E-13
4.197E-05	1.001891	3.098E-13
5.288E-05	1.001583	6.196E-13
5.477E-05	1.001646	6.884E-13
5.696E-05	1.001605	7.745E-13
5.955E-05	1.001557	8.851E-13
6.269E-05	1.001501	1.033E-12
6.662E-05	1.001434	1.239E-12
7.170E-05	1.001354	1.549E-12
7.899E-05	1.001252	2.065E-12
9.042E-05	1.001116	3.098E-12

1.139E-04	1.000906	6.196E-12
1.180E-04	1.000877	6.884E-12
1.227E-04	1.000846	7.744E-12
1.283E-04	1.000812	8.851E-12
1.351E-04	1.000773	1.033E-11
1.435E-04	1.000730	1.239E-11
1.546E-04	1.000680	1.549E-11
1.702E-04	1.000620	2.065E-11
1.948E-04	1.000544	3.098E-11
2.454E-04	1.000434	6.196E-11
2.542E-04	1.000419	6.884E-11
2.644E-04	1.000403	7.745E-11
2.764E-04	1.000386	8.851E-11
2.910E-04	1.000367	1.033E-10
3.092E-04	1.000345	1.239E-10
3.331E-04	1.000321	1.549E-10
3.666E-04	1.000292	2.065E-10
4.197E-04	1.000255	3.098E-10
5.288E-04	1.000203	6.197E-10
5.477E-04	1.000196	6.886E-10
5.697E-04	1.000188	7.748E-10
5.956E-04	1.000180	8.855E-10
6.270E-04	1.000171	1.033E-09
6.663E-04	1.000161	1.240E-09
7.178E-04	1.000149	1.550E-09
7.901E-04	1.000136	2.068E-09
9.047E-04	1.000119	3.103E-09
1.140E-03	1.000094	6.218E-09

ZINC SULFATE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.626E-05	0.882053	1.771E-14
1.711E-05	0.915424	2.066E-14
1.817E-05	0.941781	2.479E-14
1.956E-05	0.961828	3.098E-14
2.025E-05	0.968195	3.442E-14
2.105E-05	0.973916	3.873E-14
2.201E-05	0.978793	4.426E-14
2.316E-05	0.983062	5.164E-14
2.460E-05	0.986766	6.196E-14
2.547E-05	0.988502	6.885E-14
2.649E-05	0.990114	7.745E-14
2.769E-05	0.991681	8.851E-14
2.914E-05	0.993168	1.033E-13
3.096E-05	0.994583	1.239E-13
3.334E-05	0.995987	1.549E-13
3.669E-05	0.997356	2.065E-13
4.199E-05	0.998655	3.098E-13
5.289E-05	0.999879	6.196E-13
5.478E-05	0.999892	6.884E-13
5.697E-05	0.999928	7.745E-13
5.956E-05	0.999988	8.851E-13
6.270E-05	1.000069	1.033E-12
6.663E-05	1.000169	1.239E-12
7.177E-05	1.000283	1.549E-12
7.899E-05	1.000406	2.065E-12
9.042E-05	1.000522	3.098E-12
1.139E-04	1.000595	6.196E-12
1.180E-04	1.000596	6.884E-12
1.227E-04	1.000595	7.744E-12
1.283E-04	1.000591	8.851E-12
1.351E-04	1.000583	1.033E-11
1.435E-04	1.000571	1.239E-11
1.546E-04	1.000552	1.549E-11
1.702E-04	1.000524	2.065E-11
1.948E-04	1.000479	3.098E-11

2.454E-04	1.000401	6.195E-11
2.542E-04	1.000390	6.884E-11
2.644E-04	1.000377	7.744E-11
2.764E-04	1.000363	8.851E-11
2.910E-04	1.000347	1.033E-10
3.092E-04	1.000329	1.239E-10
3.331E-04	1.000308	1.549E-10
3.660E-04	1.000282	2.065E-10
4.137E-04	1.000249	3.098E-10
5.287E-04	1.000199	6.195E-10
5.476E-04	1.000193	6.884E-10
5.696E-04	1.000186	7.744E-10
5.955E-04	1.000178	8.851E-10
6.269E-04	1.000169	1.033E-09
6.662E-04	1.000159	1.239E-09
7.176E-04	1.000148	1.549E-09
7.899E-04	1.000135	2.065E-09
9.042E-04	1.000118	3.098E-09
1.139E-03	1.000094	6.197E-09
1.180E-03	1.000091	6.886E-09
1.227E-03	1.000087	7.747E-09
1.283E-03	1.000083	8.855E-09
1.351E-03	1.000079	1.033E-08
1.436E-03	1.000075	1.240E-08
1.546E-03	1.000069	1.550E-08
1.702E-03	1.000063	2.067E-08
1.949E-03	1.000055	3.103E-08
2.457E-03	1.000044	6.217E-08

ZINC SULFATE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.503E-05	0.879805	1.771E-13
3.686E-05	0.913123	2.066E-13
3.914E-05	0.939462	2.479E-13
4.214E-05	0.959532	3.098E-13
4.363E-05	0.965923	3.442E-13
4.536E-05	0.971677	3.873E-13
4.741E-05	0.976598	4.426E-13
4.989E-05	0.980926	5.163E-13
5.300E-05	0.984706	6.196E-13
5.488E-05	0.986488	6.884E-13
5.706E-05	0.988154	7.745E-13
5.965E-05	0.989793	8.851E-13
6.278E-05	0.991342	1.033E-12
6.670E-05	0.992842	1.239E-12
7.183E-05	0.994350	1.549E-12
7.904E-05	0.995849	2.065E-12
9.046E-05	0.997321	3.098E-12
1.139E-04	0.998805	6.196E-12
1.180E-04	0.998854	6.884E-12
1.227E-04	0.998929	7.744E-12
1.283E-04	0.999031	8.851E-12
1.351E-04	0.999159	1.033E-11
1.435E-04	0.999311	1.239E-11
1.546E-04	0.999486	1.549E-11
1.702E-04	0.999680	2.065E-11
1.948E-04	0.999888	3.098E-11
2.454E-04	1.000091	6.195E-11
2.542E-04	1.000109	6.884E-11
2.644E-04	1.000127	7.744E-11
2.764E-04	1.000143	8.851E-11
2.910E-04	1.000158	1.033E-10
3.092E-04	1.000170	1.239E-10
3.331E-04	1.000180	1.549E-10
3.666E-04	1.000186	2.065E-10
4.197E-04	1.000184	3.098E-10

5.287E-04	1.000167	6.195E-10
5.476E-04	1.000164	6.884E-10
5.696E-04	1.000160	7.744E-10
5.955E-04	1.000155	8.850E-10
6.269E-04	1.000150	1.033E-09
6.662E-04	1.000143	1.239E-09
7.176E-04	1.000135	1.549E-09
7.898E-04	1.000125	2.065E-09
9.041E-04	1.000111	3.098E-09
1.139E-03	1.000091	6.195E-09
1.180E-03	1.000088	6.884E-09
1.227E-03	1.000085	7.744E-09
1.283E-03	1.000081	8.851E-09
1.351E-03	1.000077	1.033E-08
1.435E-03	1.000073	1.239E-08
1.546E-03	1.000068	1.549E-08
1.702E-03	1.000062	2.065E-08
1.948E-03	1.000054	3.098E-08
2.454E-03	1.000043	6.197E-08
2.542E-03	1.000042	6.886E-08
2.644E-03	1.000040	7.747E-08
2.764E-03	1.000039	8.854E-08
2.910E-03	1.000037	1.033E-07
3.093E-03	1.000034	1.240E-07
3.332E-03	1.000032	1.550E-07
3.667E-03	1.000029	2.067E-07
4.199E-03	1.000025	3.103E-07
5.294E-03	1.000020	6.217E-07

ZINC SULFATE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.548E-05	0.878764	1.770E-12
7.941E-05	0.912057	2.065E-12
8.433E-05	0.938388	2.479E-12
9.078E-05	0.958468	3.098E-12
9.399E-05	0.964870	3.442E-12
9.772E-05	0.970639	3.873E-12
1.021E-04	0.975581	4.426E-12
1.075E-04	0.979936	5.163E-12
1.142E-04	0.983752	6.196E-12
1.182E-04	0.985555	6.884E-12
1.229E-04	0.987245	7.745E-12
1.285E-04	0.988903	8.851E-12
1.353E-04	0.990495	1.033E-11
1.437E-04	0.992035	1.239E-11
1.548E-04	0.993591	1.549E-11
1.703E-04	0.995151	2.065E-11
1.949E-04	0.996702	3.098E-11
2.455E-04	0.998308	6.195E-11
2.543E-04	0.998373	6.884E-11
2.644E-04	0.998466	7.744E-11
2.765E-04	0.998588	8.851E-11
2.910E-04	0.998737	1.033E-10
3.093E-04	0.998913	1.239E-10
3.331E-04	0.999116	1.549E-10
3.666E-04	0.999344	2.065E-10
4.197E-04	0.999594	3.098E-10
5.288E-04	0.999857	6.195E-10
5.477E-04	0.999893	6.884E-10
5.696E-04	0.999909	7.744E-10
5.955E-04	0.999935	8.850E-10
6.269E-04	0.999960	1.033E-09
6.662E-04	0.999985	1.239E-09
7.176E-04	1.000008	1.549E-09
7.838E-04	1.000029	2.065E-09
9.041E-04	1.000047	3.098E-09

1.139E-03	1.000058	6.195E-09
1.180E-03	1.000059	6.883E-09
1.227E-03	1.000059	7.744E-09
1.283E-03	1.000058	8.850E-09
1.351E-03	1.000058	1.033E-08
1.435E-03	1.000057	1.239E-08
1.546E-03	1.000055	1.549E-08
1.702E-03	1.000052	2.065E-08
1.948E-03	1.000048	3.098E-08
2.454E-03	1.000040	6.195E-08
2.542E-03	1.000039	6.884E-08
2.644E-03	1.000038	7.744E-08
2.764E-03	1.000036	8.850E-08
2.910E-03	1.000035	1.033E-07
3.092E-03	1.000033	1.239E-07
3.331E-03	1.000031	1.549E-07
3.666E-03	1.000028	2.065E-07
4.197E-03	1.000025	3.098E-07
5.288E-03	1.000020	6.197E-07
5.477E-03	1.000019	6.886E-07
5.696E-03	1.000019	7.747E-07
5.956E-03	1.000018	8.854E-07
6.270E-03	1.000017	1.033E-06
6.653E-03	1.000016	1.240E-06
7.178E-03	1.000015	1.550E-06
7.901E-03	1.000013	2.067E-06
9.046E-03	1.000012	3.103E-06
1.140E-02	1.000009	6.217E-06

ZINC SULFATE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.626E-04	0.878281	1.770E-11
1.711E-04	0.911563	2.065E-11
1.817E-04	0.937890	2.478E-11
1.956E-04	0.957975	3.098E-11
2.025E-04	0.964381	3.442E-11
2.105E-04	0.970158	3.872E-11
2.200E-04	0.975110	4.426E-11
2.316E-04	0.979477	5.163E-11
2.460E-04	0.983309	6.196E-11
2.547E-04	0.985122	6.884E-11
2.649E-04	0.986824	7.744E-11
2.769E-04	0.988495	8.851E-11
2.914E-04	0.990103	1.033E-10
3.096E-04	0.991661	1.239E-10
3.334E-04	0.993239	1.549E-10
3.669E-04	0.994826	2.065E-10
4.199E-04	0.996415	3.098E-10
5.239E-04	0.998077	6.195E-10
5.478E-04	0.998149	6.884E-10
5.697E-04	0.998251	7.744E-10
5.956E-04	0.998352	8.850E-10
6.270E-04	0.998541	1.033E-09
6.663E-04	0.998729	1.239E-09
7.177E-04	0.998945	1.549E-09
7.899E-04	0.999158	2.065E-09
9.042E-04	0.999457	3.098E-09
1.139E-03	0.999749	6.195E-09
1.180E-03	0.999779	6.883E-09
1.227E-03	0.999809	7.744E-09
1.283E-03	0.999839	8.850E-09
1.351E-03	0.999869	1.033E-08
1.435E-03	0.999898	1.239E-08
1.546E-03	0.999928	1.549E-08
1.702E-03	0.999956	2.065E-08
1.948E-03	0.999984	3.098E-08

2.454E-03	1.000008	6.195E-08
2.542E-03	1.000010	6.883E-08
2.644E-03	1.000012	7.744E-08
2.764E-03	1.000014	8.850E-08
2.910E-03	1.000015	1.032E-07
3.092E-03	1.000017	1.239E-07
3.331E-03	1.000018	1.549E-07
3.666E-03	1.000018	2.065E-07
4.197E-03	1.000018	3.097E-07
5.287E-03	1.000017	6.195E-07
5.476E-03	1.000016	6.883E-07
5.696E-03	1.000016	7.744E-07
5.955E-03	1.000015	8.850E-07
6.269E-03	1.000015	1.033E-06
6.662E-03	1.000014	1.239E-06
7.176E-03	1.000014	1.549E-06
7.898E-03	1.000013	2.065E-06
9.042E-03	1.000011	3.098E-06
1.139E-02	1.000009	6.197E-06
1.180E-02	1.000009	6.886E-06
1.227E-02	1.000008	7.747E-06
1.283E-02	1.000008	8.854E-06
1.351E-02	1.000008	1.033E-05
1.436E-02	1.000007	1.240E-05
1.546E-02	1.000007	1.550E-05
1.702E-02	1.000006	2.067E-05
1.949E-02	1.000005	3.103E-05
2.457E-02	1.000004	6.217E-05

ZINC SULFATE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.503E-04	0.878057	1.770E-10
3.686E-04	0.911334	2.065E-10
3.914E-04	0.937659	2.478E-10
4.213E-04	0.957746	3.098E-10
4.363E-04	0.964155	3.442E-10
4.536E-04	0.969935	3.872E-10
4.741E-04	0.974891	4.425E-10
4.989E-04	0.979264	5.163E-10
5.299E-04	0.983103	6.195E-10
5.488E-04	0.984921	6.884E-10
5.706E-04	0.986628	7.744E-10
5.965E-04	0.988306	8.851E-10
6.278E-04	0.989921	1.033E-09
6.670E-04	0.991487	1.239E-09
7.183E-04	0.993076	1.549E-09
7.904E-04	0.994676	2.065E-09
9.046E-04	0.996282	3.098E-09
1.139E-03	0.997969	6.195E-09
1.180E-03	0.998046	6.883E-09
1.227E-03	0.998151	7.744E-09
1.283E-03	0.998286	8.850E-09
1.351E-03	0.998450	1.033E-08
1.435E-03	0.998643	1.239E-08
1.546E-03	0.998865	1.549E-08
1.702E-03	0.999115	2.065E-08
1.948E-03	0.999394	3.098E-08
2.454E-03	0.999698	6.195E-08
2.542E-03	0.999730	6.883E-08
2.644E-03	0.999762	7.744E-08
2.764E-03	0.999794	8.850E-08
2.910E-03	0.999826	1.032E-07
3.092E-03	0.999858	1.239E-07
3.331E-03	0.999890	1.549E-07
3.666E-03	0.999923	2.065E-07
4.197E-03	0.999954	3.097E-07

5.237E-03	0.999994	6.195E-07
5.475E-03	0.999987	6.883E-07
5.696E-03	0.999990	7.744E-07
5.355E-03	0.999993	8.850E-07
6.269E-03	0.999996	1.032E-06
6.652E-03	0.999998	1.239E-06
7.177E-03	1.000001	1.549E-06
7.893E-03	1.000003	2.065E-06
9.041E-03	1.000005	3.097E-06
1.139E-02	1.000006	6.195E-06
1.139E-02	1.000006	6.883E-06
1.227E-02	1.000006	7.744E-06
1.233E-02	1.000006	8.850E-06
1.351E-02	1.000006	1.033E-05
1.435E-02	1.000006	1.239E-05
1.546E-02	1.000005	1.549E-05
1.702E-02	1.000005	2.065E-05
1.948E-02	1.000005	3.098E-05
2.434E-02	1.000004	6.197E-05
2.542E-02	1.000004	6.886E-05
2.694E-02	1.000004	7.747E-05
2.764E-02	1.000004	8.854E-05
2.910E-02	1.000003	1.033E-04
3.093E-02	1.000003	1.240E-04
3.332E-02	1.000003	1.550E-04
3.957E-02	1.000003	2.067E-04
4.199E-02	1.000002	3.103E-04
5.294E-02	1.000002	6.217E-04

ZINC SULFATE

(CRYSTAL MASS = 1.00E-09 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.547E-04	0.977953	1.770E-09
7.941E-04	0.911227	2.065E-09
8.433E-04	0.937551	2.478E-09
9.078E-04	0.957640	3.098E-09
9.399E-04	0.964050	3.442E-09
9.772E-04	0.969831	3.872E-09
1.021E-03	0.974789	4.425E-09
1.075E-03	0.979165	5.163E-09
1.142E-03	0.983008	6.195E-09
1.182E-03	0.984828	6.884E-09
1.229E-03	0.986538	7.744E-09
1.285E-03	0.988218	8.850E-09
1.353E-03	0.989836	1.033E-08
1.437E-03	0.991406	1.239E-08
1.548E-03	0.993000	1.549E-08
1.703E-03	0.994606	2.065E-08
1.949E-03	0.996220	3.098E-08
2.455E-03	0.997920	6.195E-08
2.542E-03	0.997998	6.883E-08
2.644E-03	0.998105	7.744E-08
2.764E-03	0.998242	8.850E-08
2.910E-03	0.998409	1.032E-07
3.092E-03	0.998603	1.239E-07
3.331E-03	0.998828	1.549E-07
3.666E-03	0.999082	2.065E-07
4.197E-03	0.999364	3.097E-07
5.287E-03	0.999675	6.195E-07
5.476E-03	0.999707	6.883E-07
5.696E-03	0.999740	7.744E-07
5.955E-03	0.999773	8.850E-07
6.269E-03	0.999806	1.032E-06
6.662E-03	0.999840	1.239E-06
7.176E-03	0.999873	1.549E-06
7.898E-03	0.999907	2.065E-06
9.041E-03	0.999940	3.097E-06

1.139E-02	0.999974	6.195E-06
1.180E-02	0.999977	6.883E-06
1.227E-02	0.999980	7.743E-06
1.283E-02	0.999983	8.850E-06
1.351E-02	0.999986	1.032E-05
1.435E-02	0.999990	1.239E-05
1.546E-02	0.999993	1.549E-05
1.702E-02	0.999996	2.065E-05
1.948E-02	0.999998	3.097E-05
2.454E-02	1.000001	6.195E-05
2.542E-02	1.000001	6.883E-05
2.644E-02	1.000001	7.744E-05
2.764E-02	1.000001	8.850E-05
2.910E-02	1.000002	1.032E-04
3.092E-02	1.000002	1.239E-04
3.331E-02	1.000002	1.549E-04
3.666E-02	1.000002	2.065E-04
4.197E-02	1.000002	3.098E-04
5.288E-02	1.000002	6.197E-04
5.477E-02	1.000002	6.885E-04
5.696E-02	1.000002	7.746E-04
5.956E-02	1.000002	8.854E-04
6.270E-02	1.000001	1.033E-03
6.663E-02	1.000001	1.240E-03
7.178E-02	1.000001	1.550E-03
7.901E-02	1.000001	2.067E-03
9.046E-02	1.000001	3.103E-03
1.140E-01	1.000001	6.217E-03

ZINC SULFATE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.626E-03	0.877905	1.770E-08
1.711E-03	0.911178	2.065E-08
1.817E-03	0.937501	2.478E-08
1.956E-03	0.957591	3.098E-08
2.025E-03	0.964001	3.442E-08
2.105E-03	0.969783	3.872E-08
2.200E-03	0.974742	4.425E-08
2.316E-03	0.979120	5.163E-08
2.460E-03	0.982964	6.195E-08
2.547E-03	0.984785	6.883E-08
2.649E-03	0.986495	7.744E-08
2.769E-03	0.988177	8.850E-08
2.914E-03	0.989797	1.033E-07
3.096E-03	0.991369	1.239E-07
3.334E-03	0.992965	1.549E-07
3.669E-03	0.994574	2.065E-07
4.199E-03	0.996191	3.097E-07
5.289E-03	0.997897	6.195E-07
5.478E-03	0.997975	6.883E-07
5.697E-03	0.998084	7.744E-07
5.956E-03	0.998221	8.850E-07
6.270E-03	0.998388	1.032E-06
6.662E-03	0.998585	1.239E-06
7.177E-03	0.998811	1.549E-06
7.899E-03	0.999066	2.065E-06
9.042E-03	0.999351	3.097E-06
1.139E-02	0.999664	6.195E-06
1.180E-02	0.999697	6.883E-06
1.227E-02	0.999730	7.743E-06
1.283E-02	0.999763	8.850E-06
1.351E-02	0.999797	1.032E-05
1.435E-02	0.999831	1.239E-05
1.546E-02	0.999865	1.549E-05
1.702E-02	0.999900	2.065E-05
1.948E-02	0.999934	3.097E-05

2.454E-02	0.999968	6.195E-05
2.542E-02	0.999972	6.883E-05
2.644E-02	0.999975	7.743E-05
2.764E-02	0.999979	8.849E-05
2.910E-02	0.999982	1.032E-04
3.092E-02	0.999985	1.239E-04
3.331E-02	0.999989	1.549E-04
3.666E-02	0.999992	2.065E-04
4.196E-02	0.999995	3.097E-04
5.287E-02	0.999998	6.195E-04
5.476E-02	0.999999	6.883E-04
5.695E-02	0.999999	7.743E-04
5.955E-02	0.999999	8.850E-04
6.269E-02	1.000000	1.032E-03
6.662E-02	1.000000	1.239E-03
7.176E-02	1.000000	1.549E-03
7.898E-02	1.000000	2.065E-03
9.041E-02	1.000000	3.098E-03
1.109E-01	1.000001	6.196E-03
1.189E-01	1.000001	6.885E-03
1.227E-01	1.000001	7.746E-03
1.263E-01	1.000001	8.853E-03
1.351E-01	1.000001	1.033E-02
1.435E-01	1.000001	1.240E-02
1.546E-01	1.000001	1.550E-02
1.702E-01	1.000001	2.067E-02
1.947E-01	1.000000	3.103E-02
2.457E-01	1.000000	6.217E-02

ZINC SULFATE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
3.503E-03	0.877882	1.770E-07
3.686E-03	0.911155	2.065E-07
3.914E-03	0.937478	2.478E-07
4.213E-03	0.957568	3.098E-07
4.363E-03	0.963978	3.442E-07
4.536E-03	0.969761	3.872E-07
4.741E-03	0.974720	4.425E-07
4.989E-03	0.979093	5.163E-07
5.299E-03	0.982943	6.195E-07
5.488E-03	0.984765	6.883E-07
5.706E-03	0.986476	7.744E-07
5.965E-03	0.988158	8.850E-07
6.278E-03	0.989779	1.032E-06
6.670E-03	0.991352	1.239E-06
7.183E-03	0.992949	1.549E-06
7.904E-03	0.994559	2.065E-06
9.046E-03	0.996178	3.097E-06
1.139E-02	0.997886	6.195E-06
1.180E-02	0.997965	6.883E-06
1.227E-02	0.998074	7.743E-06
1.283E-02	0.998212	8.850E-06
1.351E-02	0.998379	1.032E-05
1.435E-02	0.998576	1.239E-05
1.546E-02	0.998803	1.549E-05
1.702E-02	0.999059	2.065E-05
1.948E-02	0.999344	3.097E-05
2.454E-02	0.999659	6.195E-05
2.542E-02	0.999692	6.883E-05
2.644E-02	0.999725	7.743E-05
2.764E-02	0.999759	8.849E-05
2.910E-02	0.999793	1.032E-04
3.092E-02	0.999827	1.239E-04
3.331E-02	0.999861	1.549E-04
3.666E-02	0.999896	2.065E-04
4.196E-02	0.999931	3.097E-04

5.287E-02	0.999966	6.194E-04
5.476E-02	0.999970	6.883E-04
5.695E-02	0.999973	7.743E-04
5.955E-02	0.999977	8.849E-04
6.269E-02	0.999980	1.032E-03
6.661E-02	0.999984	1.239E-03
7.176E-02	0.999987	1.549E-03
7.898E-02	0.999991	2.065E-03
9.041E-02	0.999994	3.097E-03
1.139E-01	0.999997	6.194E-03
1.180E-01	0.999998	6.883E-03
1.227E-01	0.999998	7.743E-03
1.283E-01	0.999998	8.849E-03
1.351E-01	0.999999	1.032E-02
1.435E-01	0.999999	1.239E-02
1.546E-01	0.999999	1.549E-02
1.702E-01	1.000000	2.065E-02
1.948E-01	1.000000	3.098E-02
2.454E-01	1.000000	6.196E-02
2.542E-01	1.000000	6.885E-02
2.644E-01	1.000000	7.746E-02
2.764E-01	1.000000	8.853E-02
2.910E-01	1.000000	1.033E-01
3.093E-01	1.000000	1.240E-01
3.332E-01	1.000000	1.550E-01
3.667E-01	1.000000	2.067E-01
4.194E-01	1.000000	3.103E-01
5.293E-01	1.000000	6.216E-01

ZINC SULFATE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
7.547E-03	0.877872	1.770E-06
7.941E-03	0.911144	2.065E-06
8.433E-03	0.937468	2.478E-06
9.077E-03	0.957557	3.098E-06
9.399E-03	0.963568	3.442E-06
9.772E-03	0.969750	3.872E-06
1.021E-02	0.974710	4.425E-06
1.075E-02	0.979088	5.162E-06
1.142E-02	0.982934	6.195E-06
1.182E-02	0.984755	6.883E-06
1.229E-02	0.986467	7.743E-06
1.295E-02	0.988149	8.850E-06
1.353E-02	0.989770	1.032E-05
1.437E-02	0.991344	1.239E-05
1.548E-02	0.992941	1.549E-05
1.703E-02	0.994552	2.065E-05
1.949E-02	0.996172	3.097E-05
2.455E-02	0.997881	6.195E-05
2.542E-02	0.997960	6.883E-05
2.644E-02	0.998069	7.743E-05
2.764E-02	0.998207	8.849E-05
2.910E-02	0.998375	1.032E-04
3.092E-02	0.998572	1.239E-04
3.331E-02	0.998799	1.549E-04
3.666E-02	0.999055	2.065E-04
4.197E-02	0.999341	3.097E-04
5.287E-02	0.999657	6.194E-04
5.476E-02	0.999690	6.883E-04
5.696E-02	0.999723	7.743E-04
5.955E-02	0.999757	8.849E-04
6.259E-02	0.999791	1.032E-03
6.661E-02	0.999825	1.239E-03
7.176E-02	0.999860	1.549E-03
7.898E-02	0.999895	2.065E-03
9.041E-02	0.999930	3.097E-03

1.139E-01	0.999995	6.194E-03
1.180E-01	0.999969	6.883E-03
1.227E-01	0.999972	7.743E-03
1.283E-01	0.999976	8.849E-03
1.351E-01	0.999979	1.032E-02
1.435E-01	0.999983	1.239E-02
1.540E-01	0.999988	1.549E-02
1.702E-01	0.999990	2.065E-02
1.948E-01	0.999993	3.097E-02
2.454E-01	0.999997	6.194E-02
2.542E-01	0.999997	6.883E-02
2.644E-01	0.999998	7.743E-02
2.764E-01	0.999998	8.849E-02
2.910E-01	0.999998	1.032E-01
3.092E-01	0.999999	1.239E-01
3.331E-01	0.999999	1.549E-01
3.666E-01	0.999999	2.065E-01
4.197E-01	1.000000	3.098E-01
5.286E-01	1.000000	6.196E-01
5.477E-01	1.000000	6.885E-01
5.696E-01	1.000000	7.746E-01
5.956E-01	1.000000	8.853E-01
6.270E-01	1.000000	1.033E 00
6.663E-01	1.000000	1.240E 00
7.178E-01	1.000000	1.550E 00
7.902E-01	1.000000	2.067E 00
9.046E-01	1.000000	3.103E 00
1.140E 00	1.000000	6.216E 00

ZINC SULFATE

PERCENTAGE	MOLALITY	DENSITY
0.16	1.190	1.1896
0.14	1.008	1.1553
0.12	0.845	1.1306
0.10	0.698	1.1071
0.08	0.539	1.0842
0.06	0.395	1.0629
0.04	0.258	1.0403
0.02	0.126	1.0190
0.00	0.000	1.0000

(17) CUPRIC SULFATE

CUPRIC SULFATE

MOLECULAR WEIGHT	DENSITY	MOLES OF IONS
159.61	3.606	2.0

MASS (G)	TERMINAL VELOCITY (CM PER SEC)	RADIUS (CM)
1.00E-16	1.5230E-05	1.8777E-06
1.00E-15	7.0692E-05	4.0454E-06
1.00E-14	3.2812E-04	8.7156E-06
1.00E-13	1.5230E-03	1.8777E-05
1.00E-12	7.0692E-03	4.0454E-05
1.00E-11	3.2812E-02	8.7156E-05
1.00E-10	1.5230E-01	1.8777E-04
1.00E-09	7.0692E-01	4.0454E-04
1.00E-08	3.2812E 00	8.7156E-04
1.00E-07	1.5230E 01	1.8777E-03
1.00E-06	7.0692E 01	4.0454E-03

COPPER SULFATE
(TWC-TWC ELECTROLYTE AT 25C)

MOLALITY	WATER ACTIVITY	WAGNER FACTOR
1.4000	0.97554	1.[illegible]
1.2000	0.97976	1.[illegible]
1.0000	0.98353	1.[illegible]
0.9000	0.98526	1.[illegible]
0.8000	0.98691	1.[illegible]
0.7000	0.98852	1.[illegible]
0.6000	0.99006	1.[illegible]
0.5000	0.99159	1.[illegible]
0.4000	0.99313	1.[illegible]
0.3000	0.99467	0.99954
0.2000	0.99630	1.03191
0.1000	0.99793	1.12513
0.0900	0.99804	1.21093
0.0800	0.99817	1.[illegible]
0.0700	0.99825	1.[illegible]
0.0600	0.99841	1.47437
0.0500	0.99859	1.56209
0.0400	0.99881	1.64977
0.0300	0.99906	1.73740
0.0200	0.99934	1.82493
0.0100	0.99960	1.91252
0.0090	0.99964	1.92127
0.0080	0.99969	1.93000
0.0070	0.99976	1.93876
0.0060	0.99983	1.94745
0.0050	0.99992	1.95626
0.0040	0.99986	1.96500
0.0030	0.99994	1.97369
0.0020	0.99998	1.98244
0.0010	0.99998	1.99117
0.0009	0.99998	1.99241
0.0008	0.99998	1.99367
0.0007	0.99998	1.99493
0.0006	0.99998	1.99619
0.0005	0.99998	1.[illegible]
0.0004	0.99998	1.99866

NOT REPRODUCIBLE

0.0013	0.99995	1.98847
0.0012	0.99996	1.98942
0.0011	0.99996	1.99017
0.0010	0.99996	1.99106
0.0009	0.99997	1.99170
0.0008	0.99997	1.99250
0.0007	0.99997	1.99352
0.0006	0.99998	1.99421
0.0005	0.99999	1.99517
0.0004	0.99999	1.99558
0.0003	0.99999	1.99627
0.0002	0.99999	1.99765
0.0001	1.00000	2.00000

CUPRIC SULFATE
(CRYSTAL MASS = 1.00E-16 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.761E-06	0.994546	4.477E-16
5.010E-06	0.998266	5.223E-16
5.322E-06	1.001383	6.268E-16
5.511E-06	1.002715	6.964E-16
5.730E-06	1.003910	7.835E-16
5.989E-06	1.004978	8.954E-16
6.303E-06	1.005901	1.045E-15
6.697E-06	1.006684	1.254E-15
7.212E-06	1.007333	1.567E-15
7.935E-06	1.007744	2.089E-15
9.081E-06	1.007864	3.134E-15
1.144E-05	1.007283	6.267E-15
1.185E-05	1.007032	6.964E-15
1.232E-05	1.006788	7.834E-15
1.288E-05	1.006544	8.953E-15
1.359E-05	1.006293	1.045E-14
1.441E-05	1.006023	1.253E-14
1.552E-05	1.005717	1.567E-14
1.708E-05	1.005342	2.089E-14
1.955E-05	1.004836	3.134E-14
2.464E-05	1.004020	6.267E-14
2.552E-05	1.003902	6.964E-14
2.654E-05	1.003774	7.834E-14
2.775E-05	1.003631	8.953E-14
2.921E-05	1.003472	1.045E-13
3.104E-05	1.003289	1.253E-13
3.344E-05	1.003075	1.567E-13
3.690E-05	1.002810	2.089E-13
4.214E-05	1.002472	3.134E-13
5.103E-05	1.001990	6.267E-13
5.497E-05	1.001824	6.963E-13
5.717E-05	1.001752	7.834E-13
5.978E-05	1.001774	8.953E-13
6.293E-05	1.001697	1.045E-12
6.681E-05	1.001530	1.253E-12

7.2[illegible]E-05	1.[illegible]1473	1.567E-12
7.724E-05	1.001963	2.089E-12
9.07[illegible]-05	1.[illegible]1177	3.134E-12
1.143E-04	1.000937	6.267E-12
1.184E-04	1.000904	8.964E-12
1.232E-04	1.000870	7.834E-12
1.[illegible]4E-04	1.000832	8.353E-12
1.356E-04	1.000791	1.045E-11
1.441E-04	1.000744	1.253E-11
1.552E-04	1.000691	1.567E-11
1.73[illegible]E-04	1.000628	2.089E-11
1.9[illegible]E-04	1.000549	3.134E-11
2.4[illegible]E-04	1.000446	6.269E-11
3.552E-04	1.000421	6.[illegible]6E-11
3.[illegible]4E-04	1.000405	7.837E-11
3.779E-04	1.000387	9.957E-11
3.[illegible]1E-04	1.000365	1.045E-10
3.[illegible]5E-04	1.000346	1.254E-10
3.44[illegible]E-04	1.000321	1.567E-10
3.[illegible]2E-04	1.000282	2.[illegible]1E-10
4.215E-04	1.000255	3.133E-10
5.31[illegible]E-04	1.000202	5.[illegible]3E-10

GRAPHITE SILICATE

(CRYSTAL MASS = 1.[illegible]E-15 GM TEMPERATURE = 200)

RADIUS(CM)	SATURATION RATIO	MASS(GM)
1.[illegible]E-05	[illegible]	[illegible]
1.[illegible]E-05	[illegible]	[illegible]
1.[illegible]E-05	[illegible]	[illegible]

1.552E-04	1.000678	1.567E-11
1.708E-04	1.000618	2.089E-11
1.955E-04	1.000542	3.133E-11
2.464E-04	1.000433	6.267E-11
2.552E-04	1.000418	6.963E-11
2.654E-04	1.000402	7.834E-11
2.775E-04	1.000385	8.953E-11
2.921E-04	1.000366	1.045E-10
3.104E-04	1.000344	1.253E-10
3.344E-04	1.000320	1.567E-10
3.680E-04	1.000291	2.089E-10
4.213E-04	1.000254	3.134E-10
5.308E-04	1.000202	6.269E-10
5.498E-04	1.000195	5.966E-10
5.713E-04	1.000188	7.837E-10
5.978E-04	1.000179	8.957E-10
6.294E-04	1.000171	1.045E-09
6.689E-04	1.000160	1.254E-09
7.205E-04	1.000149	1.568E-09
7.931E-04	1.000135	2.091E-09
9.081E-04	1.000118	3.139E-09
1.145E-03	1.000094	6.289E-09

CUPRIC SULFATE

(CRYSTAL MASS = 1.00E-14 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.210E-05	0.979602	4.477E-14
2.325E-05	0.983716	5.223E-14
2.470E-05	0.987347	6.268E-14
2.558E-05	0.988993	6.964E-14
2.650E-05	0.990551	7.834E-14
2.780E-05	0.992039	8.953E-14
2.926E-05	0.993454	1.045E-13
3.106E-05	0.994820	1.253E-13
3.347E-05	0.996177	1.567E-13
3.683E-05	0.997476	2.089E-13
4.215E-05	0.998777	3.134E-13
5.309E-05	0.999378	6.267E-13
5.499E-05	0.999571	6.963E-13
5.719E-05	0.999990	7.834E-13
5.979E-05	1.000035	8.953E-13
6.294E-05	1.000102	1.045E-12
6.688E-05	1.000191	1.253E-12
7.204E-05	1.000296	1.567E-12
7.929E-05	1.000412	2.089E-12
9.076E-05	1.000524	3.134E-12
1.143E-04	1.000594	6.267E-12
1.184E-04	1.000595	6.963E-12
1.232E-04	1.000594	7.834E-12
1.288E-04	1.000589	8.953E-12
1.356E-04	1.000582	1.044E-11
1.441E-04	1.000569	1.253E-11
1.552E-04	1.000551	1.567E-11
1.708E-04	1.000522	2.089E-11
1.956E-04	1.000478	3.133E-11
2.464E-04	1.000400	6.267E-11
2.552E-04	1.000389	6.963E-11
2.654E-04	1.000376	7.834E-11
2.775E-04	1.000362	8.953E-11
2.921E-04	1.000346	1.044E-10
3.104E-04	1.000328	1.253E-10

3.343E-04	1.000307	1.567E-10
3.680E-04	1.000281	2.089E-10
4.213E-04	1.000248	3.133E-10
5.307E-04	1.000199	6.267E-10
5.497E-04	1.000192	6.963E-10
5.717E-04	1.000185	7.834E-10
5.978E-04	1.000177	8.953E-10
6.293E-04	1.000169	1.045E-09
6.687E-04	1.000159	1.253E-09
7.203E-04	1.000148	1.567E-09
7.929E-04	1.000134	2.089E-09
9.076E-04	1.000118	3.134E-09
1.144E-03	1.000094	6.269E-09
1.184E-03	1.000090	6.966E-09
1.232E-03	1.000087	7.837E-09
1.288E-03	1.000083	8.957E-09
1.356E-03	1.000079	1.045E-08
1.441E-03	1.000074	1.254E-08
1.552E-03	1.000069	1.568E-08
1.709E-03	1.000063	2.091E-08
1.956E-03	1.000055	3.139E-08
2.466E-03	1.000044	6.289E-08

CUPRIC SULFATE

(CRYSTAL MASS = 1.00E-13 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.751E-05	0.977422	4.477E-13
5.010E-05	0.981593	5.223E-13
5.321E-05	0.985299	6.267E-13
5.651E-05	0.988690	6.964E-13
5.738E-05	0.990691	7.834E-13
5.989E-05	0.990150	8.953E-13
6.303E-05	0.991635	1.045E-12
6.656E-05	0.993036	1.253E-12
7.212E-05	0.994540	1.567E-12
7.935E-05	0.995574	2.089E-12
9.031E-05	0.997447	3.134E-12
1.144E-04	0.998907	6.267E-12
1.195E-04	0.998936	6.963E-12
1.232E-04	0.998994	7.834E-12
1.283E-04	0.999080	8.953E-12
1.350E-04	0.999135	1.044E-11
1.441E-04	0.999335	1.253E-11
1.562E-04	0.999501	1.567E-11
1.730E-04	0.999688	2.089E-11
1.999E-04	0.999891	3.133E-11
2.464E-04	1.000091	6.267E-11
2.552E-04	1.000109	6.963E-11
2.659E-04	1.000126	7.834E-11
2.797E-04	1.000142	8.953E-11
2.977E-04	1.000157	1.044E-10
3.213E-04	1.000170	1.253E-10
3.534E-04	1.000180	1.567E-10
3.999E-04	1.000185	2.089E-10
4.713E-04	1.000184	3.133E-10
5.867E-04	1.000167	6.267E-10
5.997E-04	1.000163	6.963E-10
6.171E-04	1.000159	7.833E-10
6.377E-04	1.000155	8.952E-10
6.623E-04	1.000149	1.044E-09
6.955E-04	1.000143	1.253E-09

7.203E-04	1.000135	1.567E-09
7.923E-04	1.000125	2.087E-09
9.075E-04	1.000111	3.133E-09
1.143E-03	1.000090	6.267E-09
1.184E-03	1.000087	6.963E-09
1.232E-03	1.000084	7.833E-09
1.281E-03	1.000081	8.953E-09
1.350E-03	1.000077	1.044E-08
1.441E-03	1.000073	1.253E-08
1.552E-03	1.000068	1.567E-08
1.723E-03	1.000062	2.089E-08
1.955E-03	1.000054	3.134E-08
2.464E-03	1.000043	6.269E-08
2.552E-03	1.000042	6.965E-08
2.654E-03	1.000040	7.836E-08
2.775E-03	1.000038	8.957E-08
2.921E-03	1.000037	1.045E-07
3.104E-03	1.000034	1.254E-07
3.344E-03	1.000032	1.568E-07
3.681E-03	1.000029	2.091E-07
4.215E-03	1.000025	3.139E-07
5.314E-03	1.000020	6.289E-07

CUPRIC SULFATE

(CRYSTAL MASS = 1.00E-12 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.026E-04	0.976412	4.477E-12
1.079E-04	0.980609	5.223E-12
1.146E-04	0.984349	6.267E-12
1.187E-04	0.986062	6.964E-12
1.234E-04	0.987696	7.834E-12
1.290E-04	0.989274	8.953E-12
1.358E-04	0.990792	1.045E-11
1.443E-04	0.992282	1.253E-11
1.554E-04	0.993789	1.567E-11
1.710E-04	0.995278	2.089E-11
1.956E-04	0.996830	3.133E-11
2.464E-04	0.998411	6.267E-11
2.552E-04	0.998456	6.963E-11
2.654E-04	0.998532	7.834E-11
2.775E-04	0.998638	8.953E-11
2.921E-04	0.998773	1.044E-10
3.104E-04	0.998939	1.253E-10
3.344E-04	0.999132	1.567E-10
3.680E-04	0.999353	2.089E-10
4.213E-04	0.999597	3.133E-10
5.308E-04	0.999858	6.267E-10
5.497E-04	0.999884	6.963E-10
5.717E-04	0.999910	7.833E-10
5.978E-04	0.999935	8.952E-10
6.293E-04	0.999960	1.044E-09
6.687E-04	0.999984	1.253E-09
7.203E-04	1.000007	1.567E-09
7.928E-04	1.000029	2.089E-09
9.076E-04	1.000047	3.133E-09
1.143E-03	1.000058	6.267E-09
1.134E-03	1.000058	6.963E-09
1.232E-03	1.000059	7.833E-09
1.289E-03	1.000058	8.952E-09
1.356E-03	1.000058	1.044E-08
1.441E-03	1.000057	1.253E-08

1.552E-03	1.000055	1.567E-08
1.708E-03	1.000052	2.089E-08
1.955E-03	1.000048	3.133E-08
2.443E-03	1.000040	6.267E-08
2.552E-03	1.000039	6.963E-08
2.654E-03	1.000038	7.833E-08
2.774E-03	1.000036	8.952E-08
2.921E-03	1.000035	1.044E-07
3.104E-03	1.000033	1.253E-07
3.343E-03	1.000031	1.567E-07
3.658E-03	1.000028	2.089E-07
4.213E-03	1.000025	3.134E-07
5.303E-03	1.000020	6.269E-07
5.493E-03	1.000019	6.965E-07
5.719E-03	1.000018	7.836E-07
5.978E-03	1.000018	8.956E-07
6.294E-03	1.000017	1.045E-06
6.688E-03	1.000016	1.254E-06
7.205E-03	1.000015	1.568E-06
7.931E-03	1.000013	2.091E-06
9.081E-03	1.000012	3.139E-06
1.145E-02	1.000009	6.289E-06

CUPRIC SULFATE

(CRYSTAL MASS = 1.00E-11 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.210E-04	0.975943	4.477E-11
2.325E-04	0.980152	5.223E-11
2.470E-04	0.983909	6.267E-11
2.558E-04	0.985631	6.963E-11
2.659E-04	0.987277	7.834E-11
2.780E-04	0.988867	8.953E-11
2.926E-04	0.990401	1.044E-10
3.103E-04	0.991910	1.253E-10
3.347E-04	0.993439	1.567E-10
3.683E-04	0.994954	2.089E-10
4.215E-04	0.996544	3.133E-10
5.309E-04	0.998180	6.267E-10
5.499E-04	0.998233	6.963E-10
5.719E-04	0.998317	7.833E-10
5.979E-04	0.998432	8.952E-10
6.294E-04	0.998578	1.044E-09
6.688E-04	0.998754	1.253E-09
7.204E-04	0.998961	1.567E-09
7.929E-04	0.999197	2.089E-09
9.076E-04	0.999461	3.133E-09
1.143E-03	0.999749	6.267E-09
1.184E-03	0.999779	6.963E-09
1.232E-03	0.999809	7.833E-09
1.288E-03	0.999839	8.952E-09
1.356E-03	0.999869	1.044E-08
1.441E-03	0.999898	1.253E-08
1.552E-03	0.999928	1.567E-08
1.708E-03	0.999956	2.089E-08
1.955E-03	0.999984	3.133E-08
2.463E-03	1.000008	6.266E-08
2.552E-03	1.000010	6.963E-08
2.654E-03	1.000012	7.833E-08
2.774E-03	1.000014	8.952E-08
2.921E-03	1.000015	1.044E-07
3.104E-03	1.000017	1.253E-07

3.343E-03	1.000018	1.567E-07
3.660E-03	1.000018	2.089E-07
4.212E-03	1.000018	3.133E-07
5.307E-03	1.000017	6.266E-07
5.497E-03	1.000016	6.963E-07
5.717E-03	1.000016	7.833E-07
5.977E-03	1.000015	8.952E-07
6.293E-03	1.000015	1.044E-06
6.687E-03	1.000014	1.253E-06
7.203E-03	1.000013	1.567E-06
7.928E-03	1.000012	2.089E-06
9.076E-03	1.000011	3.134E-06
1.144E-02	1.000009	6.268E-06
1.184E-02	1.000009	6.965E-06
1.232E-02	1.000008	7.836E-06
1.288E-02	1.000008	8.956E-06
1.356E-02	1.000008	1.045E-05
1.441E-02	1.000007	1.254E-05
1.552E-02	1.000007	1.568E-05
1.709E-02	1.000006	2.091E-05
1.956E-02	1.000005	3.139E-05
2.466E-02	1.000004	6.289E-05

CUPRIC SULFATE

(CRYSTAL MASS = 1.00E-10 GM TEMPERATURE = 20C)

RADIUS (CM)	SATURATION RATIO	WATER GAINED(GM)
4.761E-04	0.975726	4.476E-10
5.010E-04	0.979941	5.222E-10
5.321E-04	0.983705	6.267E-10
5.751E-04	0.988431	8.963E-10
6.730E-04	0.987C83	7.834E-10
5.999E-04	0.988679	8.953E-10
6.303E-04	0.990213	1.044E-09
6.696E-04	0.991737	1.253E-09
7.211E-04	0.993276	1.567E-09
7.935E-04	0.994305	2.089E-09
9.061E-04	0.996411	3.133E-09
1.144E-03	0.998073	6.267E-09
1.185E-03	0.998130	8.963E-09
1.232E-03	0.998216	7.833E-09
1.288E-03	0.998337	8.952E-09
1.356E-03	0.998497	1.044E-08
1.441E-03	0.998669	1.253E-08
1.552E-03	0.998831	1.567E-08
1.708E-03	0.999125	2.089E-08
1.955E-03	0.999356	3.133E-08
2.464E-03	0.999699	6.266E-08
2.552E-03	0.999731	6.963E-08
2.654E-03	0.999762	7.833E-08
2.775E-03	0.999794	8.952E-08
2.921E-03	0.999826	1.044E-07
3.104E-03	0.999858	1.253E-07
3.343E-03	0.999891	1.567E-07
3.680E-03	0.999923	2.089E-07
4.212E-03	0.999954	3.133E-07
5.307E-03	0.999984	6.266E-07
5.497E-03	0.999987	6.963E-07
5.717E-03	0.999990	7.833E-07
5.977E-03	0.999993	8.952E-07
6.288E-03	0.999995	1.044E-06
6.667E-03	0.999998	1.253E-06

NOT REPRODUCIBLE

7.203E-03	1.000001	1.567E-06
7.924E-03	1.000003	2.089E-06
9.075E-03	1.000005	3.133E-06
1.143E-02	1.000006	6.266E-06
1.184E-02	1.000006	6.963E-06
1.232E-02	1.000006	7.833E-06
1.283E-02	1.000006	8.952E-06
1.356E-02	1.000006	1.044E-05
1.441E-02	1.000006	1.253E-05
1.552E-02	1.000005	1.567E-05
1.708E-02	1.000005	2.089E-05
1.955E-02	1.000005	3.134E-05
2.464E-02	1.000004	6.268E-05
2.552E-02	1.000004	6.965E-05
2.654E-02	1.000004	7.836E-05
2.775E-02	1.000004	8.956E-05
2.921E-02	1.000003	1.045E-04
3.104E-02	1.000003	1.254E-04
3.344E-02	1.000003	1.568E-04
3.681E-02	1.000003	2.091E-04
4.215E-02	1.000002	3.139E-04
5.314E-02	1.000002	6.288E-04

CUPRIC SULFATE

(CRYSTAL MASS = 1.00E-04 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.02[illegible]E-03	0.975625	4.475E-09
1.07[illegible]E-03	0.976342	5.222E-09
1.140E-03	0.983610	6.267E-09
1.187E-03	0.985539	6.963E-09
1.234E-03	0.986992	7.833E-09
1.290E-03	0.988591	8.952E-09
1.350E-03	0.990135	1.044E-08
1.443E-03	0.991656	1.253E-08
1.554E-03	0.993200	1.567E-08
1.710E-03	0.994735	2.089E-08
1.956E-03	0.996349	3.133E-08
2.464E-03	0.998024	6.266E-08
2.552E-03	0.998082	6.963E-08
2.654E-03	0.998172	7.833E-08
2.775E-03	0.998293	8.952E-08
2.921E-03	0.998445	1.044E-07
3.104E-03	0.998629	1.253E-07
3.344E-03	0.998845	1.567E-07
3.680E-03	0.999091	2.089E-07
4.213E-03	0.999368	3.133E-07
5.307E-03	0.999676	6.266E-07
5.497E-03	0.999708	6.962E-07
5.717E-03	0.999741	7.833E-07
5.977E-03	0.999774	8.952E-07
6.293E-03	0.999807	1.044E-06
6.687E-03	0.999840	1.253E-06
7.203E-03	0.999873	1.567E-06
7.928E-03	0.999907	2.089E-06
9.175E-03	0.999940	3.133E-06
1.149E-02	0.999974	6.266E-06
1.154E-02	0.999977	6.962E-06
1.232E-02	0.999980	7.833E-06
1.268E-02	0.999983	8.952E-06
1.356E-02	0.999986	1.044E-05
1.441E-02	0.999989	1.253E-05

1.552E-02	0.999993	1.567E-05
1.723E-02	0.999995	2.089E-05
1.955E-02	0.999998	3.133E-05
2.463E-02	1.000001	6.266E-05
2.551E-02	1.000001	6.962E-05
2.554E-02	1.000001	7.833E-05
2.774E-02	1.000001	8.952E-05
2.921E-02	1.000002	1.044E-04
3.104E-02	1.000002	1.253E-04
3.343E-02	1.000002	1.567E-04
3.580E-02	1.000002	2.089E-04
4.213E-02	1.000002	3.133E-04
5.306E-02	1.000002	6.268E-04
5.448E-02	1.000002	6.965E-04
5.716E-02	1.000002	7.836E-04
5.978E-02	1.000002	8.956E-04
6.294E-02	1.000001	1.045E-03
6.568E-02	1.000001	1.254E-03
7.205E-02	1.000001	1.568E-03
7.931E-02	1.000001	2.091E-03
9.031E-02	1.000001	3.139E-03
1.145E-01	1.000001	6.278E-03

CUPRIC SULFATE

(CRYSTAL MASS = 1.00E-08 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
2.210E-03	0.975578	4.476E-08
2.325E-03	0.979797	5.222E-08
2.447E-03	0.983566	6.267E-08
2.558E-03	0.985296	6.963E-08
2.669E-03	0.986950	7.833E-08
2.780E-03	0.988551	8.952E-08
2.926E-03	0.990056	1.044E-07
3.103E-03	0.991619	1.253E-07
3.247E-03	0.993165	1.567E-07
3.458E-03	0.994703	2.089E-07
4.215E-03	0.996321	3.133E-07
5.309E-03	0.998001	6.266E-07
5.498E-03	0.998060	6.962E-07
5.718E-03	0.998150	7.833E-07
5.979E-03	0.998272	8.952E-07
6.294E-03	0.998426	1.044E-06
6.668E-03	0.998611	1.253E-06
7.204E-03	0.998827	1.567E-06
7.923E-03	0.999075	2.089E-06
9.076E-03	0.999355	3.133E-06
1.143E-02	0.999665	6.266E-06
1.184E-02	0.999698	6.962E-06
1.232E-02	0.999731	7.833E-06
1.288E-02	0.999764	8.952E-06
1.356E-02	0.999797	1.044E-05
1.441E-02	0.999831	1.253E-05
1.552E-02	0.999865	1.567E-05
1.708E-02	0.999900	2.089E-05
1.955E-02	0.999934	3.133E-05
2.463E-02	0.999968	6.266E-05
2.551E-02	0.999972	6.962E-05
2.654E-02	0.999975	7.832E-05
2.774E-02	0.999979	8.951E-05
2.921E-02	0.999982	1.044E-04
3.104E-02	0.999985	1.253E-04

3.343E-02	0.999999	1.566E-04
3.538E-02	0.999992	2.089E-04
4.212E-02	0.999995	3.133E-04
5.307E-02	0.999998	6.266E-04
5.497E-02	0.999999	6.962E-04
5.717E-02	0.999999	7.833E-04
5.977E-02	0.999999	8.952E-04
6.292E-02	1.000000	1.044E-03
6.687E-02	1.000000	1.253E-03
7.203E-02	1.000000	1.567E-03
7.928E-02	1.000000	2.089E-03
9.076E-02	1.000000	3.133E-03
1.144E-01	1.000001	6.268E-03
1.184E-01	1.000001	6.965E-03
1.232E-01	1.000001	7.836E-03
1.288E-01	1.000001	8.956E-03
1.356E-01	1.000001	1.045E-02
1.441E-01	1.000001	1.254E-02
1.552E-01	1.000001	1.568E-02
1.709E-01	1.000001	2.091E-02
1.956E-01	1.000000	3.138E-02
2.456E-01	1.000000	6.288E-02

CUPRIC SULFATE

(CRYSTAL MASS = 1.00E-07 GM TEMPERATURE = 20C).

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
4.761E-03	0.975556	4.476E-07
5.010E-03	0.979776	5.222E-07
5.321E-03	0.983545	6.266E-07
5.510E-03	0.985276	6.963E-07
5.729E-03	0.986931	7.833E-07
5.989E-03	0.988532	8.952E-07
6.303E-03	0.990078	1.044E-06
6.696E-03	0.991602	1.253E-06
7.211E-03	0.993149	1.567E-06
7.935E-03	0.994688	2.089E-06
9.081E-03	0.996307	3.133E-06
1.144E-02	0.997990	6.266E-06
1.185E-02	0.998049	6.962E-06
1.232E-02	0.998140	7.833E-06
1.288E-02	0.998263	8.952E-06
1.356E-02	0.998417	1.044E-05
1.441E-02	0.998602	1.253E-05
1.552E-02	0.998819	1.567E-05
1.708E-02	0.999068	2.089E-05
1.955E-02	0.999348	3.133E-05
2.463E-02	0.999660	6.266E-05
2.552E-02	0.999693	6.962E-05
2.654E-02	0.999726	7.832E-05
2.774E-02	0.999759	8.951E-05
2.921E-02	0.999793	1.044E-04
3.104E-02	0.999827	1.253E-04
3.343E-02	0.999862	1.566E-04
3.680E-02	0.999896	2.089E-04
4.212E-02	0.999931	3.133E-04
5.307E-02	0.999966	6.266E-04
5.497E-02	0.999970	6.962E-04
5.717E-02	0.999973	7.832E-04
5.977E-02	0.999977	8.951E-04
6.292E-02	0.999980	1.044E-03
6.687E-02	0.999984	1.253E-03

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7.203E-02	0.999981	1.566E-04
7.928E-02	0.999991	2.089E-04
9.075E-02	0.999994	3.133E-03
1.143E-01	0.999997	6.266E-03
1.184E-01	0.999998	6.962E-03
1.232E-01	0.999998	7.832E-03
1.284E-01	0.999998	8.951E-03
1.350E-01	0.999998	1.044E-02
1.441E-01	0.999999	1.253E-02
1.552E-01	0.999999	1.567E-02
1.708E-01	0.999999	2.089E-02
1.955E-01	0.999999	3.133E-02
2.468E-01	1.000000	6.268E-02
2.552E-01	1.000000	6.964E-02
2.654E-01	1.000000	7.835E-02
2.775E-01	1.000000	8.955E-02
2.921E-01	1.000000	1.045E-01
3.104E-01	1.000000	1.254E-01
3.344E-01	1.000000	1.568E-01
3.691E-01	1.000000	2.091E-01
4.215E-01	1.000000	3.138E-01
5.113E-01	1.000000	6.278E-01

CUPRIC. SULFATE

(CRYSTAL MASS = 1.00E-06 GM TEMPERATURE = 20C)

RADIUS(CM)	SATURATION RATIO	WATER GAINED(GM)
1.026E-02	0.975546	4.476E-06
1.079E-02	0.979766	5.222E-06
1.146E-02	0.983536	6.266E-06
1.187E-02	0.985266	6.962E-06
1.234E-02	0.986922	7.833E-06
1.290E-02	0.988523	8.952E-06
1.353E-02	0.990070	1.044E-05
1.443E-02	0.991594	1.253E-05
1.554E-02	0.993141	1.567E-05
1.710E-02	0.994681	2.089E-05
1.956E-02	0.996301	3.133E-05
2.464E-02	0.997985	6.266E-05
2.552E-02	0.998045	6.962E-05
2.654E-02	0.998136	7.832E-05
2.775E-02	0.998258	8.951E-05
2.921E-02	0.998413	1.044E-04
3.104E-02	0.998598	1.253E-04
3.344E-02	0.998816	1.566E-04
3.680E-02	0.999065	2.089E-04
4.213E-02	0.999345	3.133E-04
5.307E-02	0.999658	6.266E-04
5.497E-02	0.999691	6.962E-04
5.717E-02	0.999724	7.832E-04
5.977E-02	0.999757	8.951E-04
6.292E-02	0.999791	1.044E-03
6.687E-02	0.999825	1.253E-03
7.203E-02	0.999860	1.566E-03
7.923E-02	0.999895	2.089E-03
9.075E-02	0.999930	3.133E-03
1.143E-01	0.999965	6.266E-03
1.184E-01	0.999969	6.962E-03
1.232E-01	0.999972	7.832E-03
1.288E-01	0.999976	8.951E-03
1.356E-01	0.999979	1.044E-02
1.441E-01	0.999983	1.253E-02

1.5?2E-01	0.999996	1.566E-02
1.7?8E-01	0.999990	2.089E-02
1.955E-01	0.999983	3.133E-02
2.463E-01	0.999957	6.266E-02
2.551E-01	0.999947	6.962E-02
2.654E-01	0.999938	7.832E-02
2.774E-01	0.999928	8.951E-02
2.921E-01	0.999914	1.044E-01
3.104E-01	0.999899	1.253E-01
3.343E-01	0.999899	1.567E-01
3.680E-01	0.999899	2.089E-01
4.212E-01	1.000000	3.133E-01
5.308E-01	1.000000	6.268E-01
5.497E-01	1.000000	6.964E-01
5.718E-01	1.000000	7.835E-01
5.978E-01	1.000000	8.955E-01
6.293E-01	1.000000	1.045E 00
6.688E-01	1.000000	1.254E 00
7.205E-01	1.000000	1.568E 00
7.931E-01	1.000000	2.091E 00
9.080E-01	1.000000	3.138E 00
1.145E 00	1.000000	6.288E 00

CUPRIC SULFATE

PERCENTAGE	MOLALITY	DENSITY
0.18	1.375	1.2060
0.16	1.193	1.1800
0.14	1.020	1.1540
0.12	0.854	1.1310
0.10	0.696	1.1070
0.08	0.545	1.0840
0.06	0.400	1.0620
0.04	0.261	1.0400
0.02	0.128	1.0190
0.01	0.063	1.0090
0.00	0.000	1.0000

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UNCLASSIFIED
Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

1 ORIGINATING ACTIVITY *(Corporate author)*

U. S. Army Electronics Command
Fort Monmouth, New Jersey

2a. REPORT SECURITY CLASSIFICATION

Unclassified

2b. GROUP

3 REPORT TITLE

A COMPREHENSIVE REPORT ON NINETEEN CONDENSATION NUCLEI
(Part I - Equilibrium Growth and Physical Properties)

4. DESCRIPTIVE NOTES *(Type of report and inclusive dates)*

5 AUTHOR(S) *(First name, middle initial, last name)*

Richard D. H. Low

6 REPORT DATE	7a. TOTAL NO. OF PAGES	7b. NO. OF REFS
May 1969	553	8

8a. CONTRACT OR GRANT NO.	9a. ORIGINATOR'S REPORT NUMBER(S)
b. PROJECT NO	ECOM-5249
c. Task No. 1T061102B53A-20	9b. OTHER REPORT NO(S) *(Any other numbers that may be assigned this report)*
d.	

10. DISTRIBUTION STATEMENT

Distribution of this report is unlimited.

11. SUPPLEMENTARY NOTES	12. SPONSORING MILITARY ACTIVITY
	Atmospheric Sciences Laboratory U. S. Army Electronics Command White Sands Missile Range, New Mexico

13 ABSTRACT

The theoretical study of condensation nuclei has been hampered by the fact that one must know the van't Hoff i-factors for a particular nucleus at different concentrations; as a result, only sodium chloride has been studied extensively. In this report, a generalized expression for the solution effect on droplet growth is used, thus simplifying the study of the growth behaviors of a large number of promising condensation nuclei under equilibrium conditions. Tables are compiled to present their equilibrium growths and their physical properties, and a few graphs comparing these properties are included to illustrate how the data in these tables may be used. It is believed that the information presented herein will facilitate an intelligent selection of the proper artificial nuclei for the modification of warm fogs and clouds, when combined with adequate measurements of the pertinent environmental parameters.

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14 KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
1. Condensation Nuclei						
2. van't Hoff Factors						
3. Solution Effect						
4. Droplet Growth						
5. Weather Modification						
6. Hygroscopicity						
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