

GEOPHYSICAL BULLETIN

No. 19

Tables and Graphs
for Use in Aerosol Physics

by

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Part 1: Mobility v. Radius and vice versa

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June 1961

Price : 7s. 6d.

The research reported in this Bulletin has been supported in part by the Geophysics Research Directorate of the Air Force Cambridge Research Laboratories, through the European Office of the Air Force Research Division, United States Air Force under Contract AF 61(052)-26.

Introduction - During an investigation⁽¹⁾ which we carried out in collaboration with T. A. RICH, Consulting Engineer - Instrumentation Engineering Physics & Analysis Laboratory of the General Electric Company in Schenectady, N.Y., the necessity arose to have at our disposal convenient tables which would give values of mobility versus radius and vice versa for small steps of the argument and for temperatures likely to occur in the laboratory. Previously, we employed the graph (See Fig.1 in Ref.2) of mobility vs radius for singly charged particles at 20°C constructed by T. A. RICH many years ago, which he kindly supplied to us in its original size. The only other graph of which we are aware is that published by H. ISRAEL⁽³⁾ giving radius vs the reciprocal of mobility (r in 10^{-8} cm, $1/k$ from 0 to 70000 V. sec/cm²).

The results of our computations are contained in the following.

Formulae - Using EINSTEIN's formula⁽⁴⁾ modified for the case when the particle is small compared with the mean free path of the molecules of the gas, the diffusion coefficient⁽⁵⁾

$$D = \frac{R T}{N} \cdot \frac{1 + \frac{L}{r} [A + B \exp(-Cr/L)]}{6 \pi \eta r} \quad \dots (1)$$

where

R is the gas constant, T the absolute temperature, N the Loschmidt's number, L the mean free path of molecules in air, r the radius of a spherical particle, η the viscosity of air (independent of pressure between 20 and 1000 mb), A, B and C are constants.

Since the mobility M of a spherical, singly charged particle in an elec-

trostatic field of 1 V/cm

$$M = \frac{DN}{RT} \cdot \frac{e}{300} \text{ cm/sec per volt/cm} \quad \dots (2)$$

where e is the charge of the electron (elementary electric charge) in electrostatic units,

$$M = \frac{1}{6\pi\eta r} \cdot \frac{e}{300} \left[1 + \frac{L}{r}(A + B \exp(-Cr/L)) \right] \frac{\text{cm}}{\text{sec}} : \frac{\text{V}}{\text{cm}} \quad \dots (3)$$

For details of the derivation of Equ.(3) see e.g. Ref.3, pp.287 & 288.

The following values were used in our computations:

$$e = 4.80288 \cdot 10^{-10} \text{ e.s.u.}$$

$$\pi = 3.14159 2653$$

$$6N \cdot 300 = 5654.86677 54$$

$$A = 0.864$$

$$B = 0.290$$

$$C = 1.25$$

Temperature ($^{\circ}\text{C}$)	15	20	25
T ($^{\circ}\text{A}$)	288.16	293.16	298.16
$L \cdot 10^6$ (for 1013 mb) cm	10.23	10.46	10.70
$\eta \cdot 10^4$ g $\text{cm}^{-1} \text{ sec}^{-1}$	1.785	1.810	1.835

Notes:

e from KAYE & LABY: Tables of physical and chemical constants, London 1956; p.191

A, B & C from MILLIKAN, Phys. Review, 1923; 22, 1

L computed from formula given in KAYE & LABY, 1956; p. 39 for composition of atmosphere (N_2 , O_2 & A) taking into account the dependence of L on η and temperature.

We are aware of the new values for L as given in KAYE & LABY, 1959 but we adhered to the older values which have been used by MILLIKAN in his 1923 paper.

η from LANDOLT-BÖRNSTEIN, Erg.-Bd. III via LINKE's Taschenbuch, II. Band, 1953; Tabelle 22, p.419

The diffusion coefficient D can be obtained from the values of mobility M given in these tables using the equation

$$D = \frac{300 R T}{N e} \cdot M = f \cdot M \quad \dots (2)$$

Taking

$$R = 8.3145 \cdot 10^7 \text{ erg deg}^{-1}$$

$$N = 6.023 \cdot 10^{23} \text{ mole}^{-1}$$

the conversion factors and their reciprocals are

Temperature ($^{\circ}\text{C}$)	15	20	25
T ($^{\circ}\text{A}$)	288.16	293.16	298.16
f	0.024847	0.025278	0.025709
1/f	40.246	39.560	38.896

Computations - The mobility versus radius and radius versus mobility for the temperatures 15°C , 20°C and 25°C as defined by Equ.3 were computed by the STANDARD TELEPHONES and CABLES Ltd., Information Processing Division, Newport, Mon. by means of their Stantec Zebra electronic automatic digital computer

for the following 'fundamental values':

Mobility vs Radius

$r = 0.5, 0.6, 0.7, 0.8$ etc. up to $20.0 \cdot 10^{-6}$ and
 $20.5, 21.0, 21.5, 22.0$ etc. up to $100.0 \cdot 10^{-6}$ cm

Radius vs Mobility

$M = 100.0, 97.5, 95.0$, etc. up to $10.0 \cdot 10^{-3}$,
 $100.0, 97.5, 95.0$, etc. up to $10.0 \cdot 10^{-4}$,
 $100.0, 97.5, 95.0$, etc. up to $10.0 \cdot 10^{-5}$,
 $100.0, 97.5, 95.0$, etc. up to $10.0 \cdot 10^{-6}$,
 $100.0, 97.5, 95.0$, etc. up to $52.5 \cdot 10^{-7}$ cm.

We asked for the results to five significant figures but The Standard Telephones and Cables Ltd. told us that as this would involve extra programming they supplied instead the results to ten significant figures, of which the accuracy of the first eight was guaranteed.

Several of the fundamental values as produced by the Stantec Zebra electronic computer were checked by us with a desk calculating machine, and needless to say - we found perfect agreement.

The values of Mobility vs Radius and vice versa for arguments between those of the fundamental values given above, were obtained by linear interpolation using a listing adding machine. This method of interpolation is self-checking.

Tables - The Tables give for temperatures of 15° , 20° and 25°C the mobility M for $r = 0.5 \cdot 10^{-6}$ to $100.0 \cdot 10^{-6}$ cm in steps of $0.1 \cdot 10^{-6}$ cm and the radius r for $M = 100.0 \cdot 10^{-3}$ to $50.0 \cdot 10^{-7}$ cm/sec : V/cm in steps of 5 in the third significant figure of the argument.

Acknowledgment - We wish to express our most sincere thanks to the STANDARD TELEPHONES and CABLES Ltd., Newport Computer Centre and its Chief Programmer Mr. C. R. BERRY for the reliable computation of the fundamental values and the great care taken with our problems.

We should like also to acknowledge the consideration shown by the firm in granting to us as an educational establishment a reduction in their normal charges.

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Mobility versus Radius

15 °C

$$M = \frac{4.80288 \times 10^{-10}}{5654.8667754 \eta r} \left[1 + \frac{L}{r} (0.864 + 0.290 e^{-\frac{1.25r}{L}}) \right]$$

$$L = 10.23 \times 10^{-6} \text{ cm}, \quad \eta = 1.785 \times 10^{-4} \text{ g cm}^{-1} \text{ sec}^{-1}$$

Mobility vs. Radius

Temperature: 15° C

r. 10^6	M. 10^3	r. 10^6	M. 10^4	r. 10^6	M. 10^5	r. 10^6	M. 10^5	r. 10^6	M. 10^6
0.5	23.09			2.6	95.71	6.5	18.78	9.6	99.94
0.6	16.12			2.7	89.24	6.6	18.31	9.7	98.34
0.7	11.91			2.8	83.42	6.7	17.86	9.8	96.78
		0.8	91.66	2.9	78.19	6.8	17.42	9.9	95.27
		0.9	72.82			6.9	17.01		
		1.0	59.31	3.0	73.46	7.0	16.61	10.0	93.80
		1.1	49.28	3.1	69.17	7.1	16.22	10.1	92.37
		1.2	41.64	3.2	65.26	7.2	15.85	10.2	90.97
		1.3	35.67	3.3	61.70	7.3	15.50	10.3	89.62
		1.4	30.93	3.4	58.44	7.4	15.15	10.4	88.30
		1.5	27.09	3.5	55.44	7.5	14.82	10.5	87.01
		1.6	23.94	3.6	52.68	7.6	14.51	10.6	85.76
		1.7	21.32	3.7	50.14	7.7	14.20	10.7	84.54
		1.8	19.12	3.8	47.79	7.8	13.91	10.8	83.35
		1.9	17.25	3.9	45.61	7.9	13.62	10.9	82.19
		2.0	15.66	4.0	43.59	8.0	13.35	11.0	81.06
		2.1	14.28	4.1	41.71	8.1	13.08	11.1	79.95
		2.2	13.08	4.2	39.96	8.2	12.83	11.2	78.87
		2.3	12.03	4.3	38.33	8.3	12.58	11.3	77.82
		2.4	11.11	4.4	36.80	8.4	12.34	11.4	76.80
		2.5	10.30	4.5	35.36	8.5	12.11	11.5	75.79
				4.6	34.02	8.6	11.89	11.6	74.82
				4.7	32.76	8.7	11.67	11.7	73.86
				4.8	31.57	8.8	11.46	11.8	72.93
				4.9	30.46	8.9	11.26	11.9	72.01
		5.0	29.40			9.0	11.06	12.0	71.12
		5.1	28.41			9.1	10.87	12.1	70.25
		5.2	27.47			9.2	10.68	12.2	69.39
		5.3	26.58			9.3	10.50	12.3	68.56
		5.4	25.74			9.4	10.33	12.4	67.74
		5.5	24.94			9.5	10.16	12.5	66.94
		5.6	24.18					12.6	66.16
		5.7	23.46					12.7	65.40
		5.8	22.77					12.8	64.65
		5.9	22.12					12.9	63.91
		6.0	21.50					13.0	63.19
		6.1	20.90					13.1	62.49
		6.2	20.34					13.2	61.80
		6.3	19.80					13.3	61.12
		6.4	19.28					13.4	60.46

Mobility vs. Radius

Temperature: 15 °C

r. $\cdot 10^6$	M. $\cdot 10^6$								
13.5	59.81	17.5	41.47	21.5	31.45	25.5	25.22	29.5	21.01
13.6	59.17	17.6	41.14	21.6	31.26	25.6	25.10	29.6	20.92
13.7	58.55	17.7	40.82	21.7	31.08	25.7	24.98	29.7	20.83
13.8	57.94	17.8	40.51	21.8	30.89	25.8	24.85	29.8	20.75
13.9	57.34	17.9	40.20	21.9	30.70	25.9	24.73	29.9	20.66
14.0	56.75	18.0	39.90	22.0	30.52	26.0	24.61	30.0	20.57
14.1	56.17	18.1	39.60	22.1	30.34	26.1	24.49	30.1	20.49
14.2	55.60	18.2	39.30	22.2	30.16	26.2	24.37	30.2	20.41
14.3	55.04	18.3	39.01	22.3	29.99	26.3	24.26	30.3	20.32
14.4	54.50	18.4	38.72	22.4	29.81	26.4	24.14	30.4	20.24
14.5	53.96	18.5	38.44	22.5	29.63	26.5	24.02	30.5	20.16
14.6	53.43	18.6	38.16	22.6	29.47	26.6	23.91	30.6	20.08
14.7	52.91	18.7	37.88	22.7	29.30	26.7	23.80	30.7	20.00
14.8	52.41	18.8	37.61	22.8	29.13	26.8	23.69	30.8	19.92
14.9	51.91	18.9	37.34	22.9	28.97	26.9	23.58	30.9	19.84
15.0	51.42	19.0	37.08	23.0	28.80	27.0	23.46	31.0	19.76
15.1	50.93	19.1	36.82	23.1	28.64	27.1	23.36	31.1	19.68
15.2	50.46	19.2	36.56	23.2	28.48	27.2	23.25	31.2	19.60
15.3	49.99	19.3	36.30	23.3	28.32	27.3	23.14	31.3	19.53
15.4	49.54	19.4	36.05	23.4	28.17	27.4	23.04	31.4	19.45
15.5	49.09	19.5	35.80	23.5	28.01	27.5	22.93	31.5	19.37
15.6	48.65	19.6	35.56	23.6	27.86	27.6	22.83	31.6	19.30
15.7	48.21	19.7	35.32	23.7	27.71	27.7	22.72	31.7	19.23
15.8	47.78	19.8	35.08	23.8	27.56	27.8	22.62	31.8	19.15
15.9	47.36	19.9	34.84	23.9	27.41	27.9	22.52	31.9	19.08
16.0	46.95	20.0	34.61	24.0	27.26	28.0	22.42	32.0	19.00
16.1	46.54	20.1	34.38	24.1	27.12	28.1	22.32	32.1	18.93
16.2	46.14	20.2	34.16	24.2	26.97	28.2	22.22	32.2	18.86
16.3	45.75	20.3	33.93	24.3	26.83	28.3	22.12	32.3	18.79
16.4	45.36	20.4	33.71	24.4	26.69	28.4	22.02	32.4	18.72
16.5	44.98	20.5	33.49	24.5	26.55	28.5	21.93	32.5	18.65
16.6	44.60	20.6	33.28	24.6	26.41	28.6	21.83	32.6	18.58
16.7	44.23	20.7	33.07	24.7	26.27	28.7	21.74	32.7	18.51
16.8	43.87	20.8	32.86	24.8	26.14	28.8	21.64	32.8	18.44
16.9	43.51	20.9	32.65	24.9	26.00	28.9	21.55	32.9	18.37
17.0	43.15	21.0	32.44	25.0	25.87	29.0	21.46	33.0	18.30
17.1	42.81	21.1	32.24	25.1	25.74	29.1	21.37	33.1	18.24
17.2	42.46	21.2	32.04	25.2	25.61	29.2	21.28	33.2	18.17
17.3	42.13	21.3	31.85	25.3	25.48	29.3	21.19	33.3	18.10
17.4	41.79	21.4	31.65	25.4	25.35	29.4	21.10	33.4	18.04

Mobility vs. Radius

Temperature: 15 °C

$r \cdot 10^6$	$M \cdot 10^6$								
33.5	17.97	37.5	15.69	41.5	13.91	45.5	12.49	49.5	11.33
33.6	17.91	37.6	15.64	41.6	13.87	45.6	12.46	49.6	11.30
33.7	17.84	37.7	15.59	41.7	13.83	45.7	12.43	49.7	11.28
33.8	17.78	37.8	15.54	41.8	13.80	45.8	12.40	49.8	11.25
33.9	17.72	37.9	15.49	41.9	13.76	45.9	12.36	49.9	11.23
34.0	17.65	38.0	15.44	42.0	13.72	46.0	12.33	50.0	11.20
34.1	17.59	38.1	15.40	42.1	13.68	46.1	12.30	50.1	11.17
34.2	17.53	38.2	15.35	42.2	13.64	46.2	12.27	50.2	11.15
34.3	17.47	38.3	15.30	42.3	13.60	46.3	12.24	50.3	11.12
34.4	17.40	38.4	15.25	42.4	13.57	46.4	12.21	50.4	11.10
34.5	17.34	38.5	15.20	42.5	13.53	46.5	12.18	50.5	11.07
34.6	17.28	38.6	15.16	42.6	13.49	46.6	12.15	50.6	11.05
34.7	17.22	38.7	15.11	42.7	13.45	46.7	12.12	50.7	11.02
34.8	17.16	38.8	15.07	42.8	13.42	46.8	12.09	50.8	11.00
34.9	17.10	38.9	15.02	42.9	13.38	46.9	12.06	50.9	10.97
35.0	17.04	39.0	14.97	43.0	13.34	47.0	12.03	51.0	10.95
35.1	16.99	39.1	14.93	43.1	13.31	47.1	12.00	51.1	10.92
35.2	16.93	39.2	14.88	43.2	13.27	47.2	11.97	51.2	10.90
35.3	16.87	39.3	14.84	43.3	13.24	47.3	11.94	51.3	10.87
35.4	16.81	39.4	14.79	43.4	13.20	47.4	11.91	51.4	10.85
35.5	16.76	39.5	14.75	43.5	13.16	47.5	11.88	51.5	10.83
35.6	16.70	39.6	14.71	43.6	13.13	47.6	11.85	51.6	10.80
35.7	16.64	39.7	14.66	43.7	13.09	47.7	11.83	51.7	10.78
35.8	16.59	39.8	14.62	43.8	13.06	47.8	11.80	51.8	10.75
35.9	16.53	39.9	14.57	43.9	13.02	47.9	11.77	51.9	10.73
36.0	16.48	40.0	14.53	44.0	12.99	48.0	11.74	52.0	10.71
36.1	16.42	40.1	14.49	44.1	12.96	48.1	11.71	52.1	10.68
36.2	16.37	40.2	14.45	44.2	12.92	48.2	11.68	52.2	10.66
36.3	16.31	40.3	14.40	44.3	12.89	48.3	11.66	52.3	10.64
36.4	16.26	40.4	14.36	44.4	12.85	48.4	11.63	52.4	10.61
36.5	16.21	40.5	14.32	44.5	12.82	48.5	11.60	52.5	10.59
36.6	16.15	40.6	14.28	44.6	12.79	48.6	11.57	52.6	10.57
36.7	16.10	40.7	14.24	44.7	12.75	48.7	11.55	52.7	10.54
36.8	16.05	40.8	14.20	44.8	12.72	48.8	11.52	52.8	10.52
36.9	16.00	40.9	14.15	44.9	12.69	48.9	11.49	52.9	10.50
37.0	15.94	41.0	14.11	45.0	12.65	49.0	11.46	53.0	10.48
37.1	15.89	41.1	14.07	45.1	12.62	49.1	11.44	53.1	10.45
37.2	15.84	41.2	14.03	45.2	12.59	49.2	11.41	53.2	10.43
37.3	15.79	41.3	13.99	45.3	12.56	49.3	11.38	53.3	10.41
37.4	15.74	41.4	13.95	45.4	12.52	49.4	11.36	53.4	10.39

Mobility vs. Radius

Temperature: 15° C

$r \cdot 10^6$	$M \cdot 10^6$	$r \cdot 10^6$	$M \cdot 10^7$						
53°5	10°36			58°5	93°63	62°5	86°90	66°5	81°06
53°6	10°34			58°6	93°45	62°6	86°74	66°6	80°93
53°7	10°32			58°7	93°27	62°7	86°59	66°7	80°79
53°8	10°30			58°8	93°09	62°8	86°43	66°8	80°66
53°9	10°28			58°9	92°91	62°9	86°28	66°9	80°52
54°0	10°25			59°0	92°73	63°0	86°12	67°0	80°39
54°1	10°23			59°1	92°56	63°1	85°97	67°1	80°25
54°2	10°21			59°2	92°38	63°2	85°82	67°2	80°12
54°3	10°19	55°3	99°80	59°3	92°20	63°3	85°67	67°3	79°99
54°4	10°17	55°4	99°60	59°4	92°03	63°4	85°52	67°4	79°85
54°5	10°15	55°5	99°39	59°5	91°85	63°5	85°36	67°5	79°72
54°6	10°13	55°6	99°19	59°6	91°68	63°6	85°21	67°6	79°59
54°7	10°11	55°7	98°99	59°7	91°51	63°7	85°06	67°7	79°46
54°8	10°08	55°8	98°79	59°8	91°33	63°8	84°91	67°8	79°33
54°9	10°06	55°9	98°58	59°9	91°16	63°9	84°77	67°9	79°20
55°0	10°04	56°0	98°38	60°0	90°99	64°0	84°62	68°0	79°07
55°1	10°02	56°1	98°18	60°1	90°82	64°1	84°47	68°1	78°94
55°2	10°00	56°2	97°99	60°2	90°65	64°2	84°32	68°2	78°81
		56°3	97°79	60°3	90°48	64°3	84°17	68°3	78°68
		56°4	97°59	60°4	90°31	64°4	84°03	68°4	78°55
		56°5	97°39	60°5	90°14	64°5	83°88	68°5	78°43
		56°6	97°20	60°6	89°97	64°6	83°74	68°6	78°30
		56°7	97°00	60°7	89°81	64°7	83°59	68°7	78°17
		56°8	96°81	60°8	89°64	64°8	83°45	68°8	78°05
		56°9	96°62	60°9	89°47	64°9	83°30	68°9	77°92
		57°0	96°43	61°0	89°31	65°0	83°16	69°0	77°79
		57°1	96°24	61°1	89°14	65°1	83°02	69°1	77°67
		57°2	96°05	61°2	88°98	65°2	82°87	69°2	77°54
		57°3	95°86	61°3	88°82	65°3	82°73	69°3	77°42
		57°4	95°67	61°4	88°65	65°4	82°59	69°4	77°30
		57°5	95°48	61°5	88°49	65°5	82°45	69°5	77°17
		57°6	95°29	61°6	88°33	65°6	82°31	69°6	77°05
		57°7	95°10	61°7	88°17	65°7	82°17	69°7	76°93
		57°8	94°92	61°8	88°01	65°8	82°03	69°8	76°80
		57°9	94°73	61°9	87°85	65°9	81°89	69°9	76°68
		58°0	94°54	62°0	87°69	66°0	81°75	70°0	76°56
		58°1	94°36	62°1	87°53	66°1	81°61	70°1	76°44
		58°2	94°18	62°2	87°37	66°2	81°47	70°2	76°32
		58°3	93°99	62°3	87°21	66°3	81°34	70°3	76°20
		58°4	93°81	62°4	87°06	66°4	81°20	70°4	76°07

Mobility vs. Radius

Temperature: 15° C

$r \cdot 10^6$	$M \cdot 10^7$								
70°5	75°95	74°5	71°45	78°5	67°44	82°5	63°85	86°5	60°63
70°6	75°84	74°6	71°34	78°6	67°34	82°6	63°77	86°6	60°55
70°7	75°72	74°7	71°24	78°7	67°25	82°7	63°69	86°7	60°48
70°8	75°60	74°8	71°13	78°8	67°16	82°8	63°60	86°8	60°40
70°9	75°48	74°9	71°02	78°9	67°06	82°9	63°52	86°9	60°32
71°0	75°36	75°0	70°92	79°0	66°97	83°0	63°43	87°0	60°25
71°1	75°24	75°1	70°82	79°1	66°88	83°1	63°35	87°1	60°17
71°2	75°13	75°2	70°71	79°2	66°78	83°2	63°27	87°2	60°10
71°3	75°01	75°3	70°61	79°3	66°69	83°3	63°18	87°3	60°02
71°4	74°89	75°4	70°50	79°4	66°60	83°4	63°10	87°4	59°95
71°5	74°78	75°5	70°40	79°5	66°51	83°5	63°02	87°5	59°87
71°6	74°66	75°6	70°30	79°6	66°41	83°6	62°93	87°6	59°80
71°7	74°54	75°7	70°20	79°7	66°32	83°7	62°85	87°7	59°72
71°8	74°43	75°8	70°09	79°8	66°23	83°8	62°77	87°8	59°65
71°9	74°31	75°9	69°99	79°9	66°14	83°9	62°69	87°9	59°58
72°0	74°20	76°0	69°89	80°0	66°05	84°0	62°61	88°0	59°50
72°1	74°09	76°1	69°79	80°1	65°96	84°1	62°52	88°1	59°43
72°2	73°97	76°2	69°69	80°2	65°87	84°2	62°44	88°2	59°35
72°3	73°86	76°3	69°59	80°3	65°78	84°3	62°36	88°3	59°28
72°4	73°75	76°4	69°49	80°4	65°69	84°4	62°28	88°4	59°21
72°5	73°63	76°5	69°39	80°5	65°60	84°5	62°20	88°5	59°13
72°6	73°52	76°6	69°29	80°6	65°51	84°6	62°12	88°6	59°06
72°7	73°41	76°7	69°19	80°7	65°42	84°7	62°04	88°7	58°99
72°8	73°30	76°8	69°09	80°8	65°33	84°8	61°96	88°8	58°92
72°9	73°18	76°9	68°99	80°9	65°24	84°9	61°88	88°9	58°84
73°0	73°07	77°0	68°89	81°0	65°15	85°0	61°80	89°0	58°77
73°1	72°96	77°1	68°79	81°1	65°07	85°1	61°72	89°1	58°70
73°2	72°85	77°2	68°69	81°2	64°98	85°2	61°64	89°2	58°63
73°3	72°74	77°3	68°59	81°3	64°89	85°3	61°56	89°3	58°56
73°4	72°63	77°4	68°50	81°4	64°80	85°4	61°48	89°4	58°49
73°5	72°52	77°5	68°40	81°5	64°71	85°5	61°40	89°5	58°41
73°6	72°41	77°6	68°30	81°6	64°63	85°6	61°33	89°6	58°34
73°7	72°31	77°7	68°20	81°7	64°54	85°7	61°25	89°7	58°27
73°8	72°20	77°8	68°11	81°8	64°45	85°8	61°17	89°8	58°20
73°9	72°09	77°9	68°01	81°9	64°37	85°9	61°09	89°9	58°13
74°0	71°98	78°0	67°92	82°0	64°28	86°0	61°01	90°0	58°06
74°1	71°87	78°1	67°82	82°1	64°20	86°1	60°94	90°1	57°99
74°2	71°77	78°2	67°72	82°2	64°11	86°2	60°86	90°2	57°92
74°3	71°66	78°3	67°63	82°3	64°03	86°3	60°78	90°3	57°85
74°4	71°55	78°4	67°53	82°4	63°94	86°4	60°71	90°4	57°78

Mobility vs. Radius

Temperature: 15° C

r. 10^6	M. 10^7	r. 10^6	M. 10^7	r. 10^6	M. 10^7
90.5	57.71	94.5	55.06	98.5	52.64
90.6	57.64	94.6	55.00	98.6	52.58
90.7	57.57	94.7	54.93	98.7	52.53
90.8	57.50	94.8	54.87	98.8	52.47
90.9	57.43	94.9	54.81	98.9	52.41
91.0	57.37	95.0	54.75	99.0	52.35
91.1	57.30	95.1	54.68	99.1	52.30
91.2	57.23	95.2	54.62	99.2	52.24
91.3	57.16	95.3	54.56	99.3	52.18
91.4	57.09	95.4	54.50	99.4	52.13
91.5	57.03	95.5	54.44	99.5	52.07
91.6	56.96	95.6	54.37	99.6	52.01
91.7	56.89	95.7	54.31	99.7	51.96
91.8	56.82	95.8	54.25	99.8	51.90
91.9	56.76	95.9	54.19	99.9	51.84
92.0	56.69	96.0	54.13	100.0	51.79
92.1	56.62	96.1	54.07		
92.2	56.55	96.2	54.01		
92.3	56.49	96.3	53.95		
92.4	56.42	96.4	53.88		
92.5	56.36	96.5	53.82		
92.6	56.29	96.6	53.76		
92.7	56.22	96.7	53.70		
92.8	56.16	96.8	53.64		
92.9	56.09	96.9	53.58		
93.0	56.03	97.0	53.52		
93.1	55.96	97.1	53.46		
93.2	55.90	97.2	53.40		
93.3	55.83	97.3	53.34		
93.4	55.77	97.4	53.29		
93.5	55.70	97.5	53.23		
93.6	55.64	97.6	53.17		
93.7	55.57	97.7	53.11		
93.8	55.51	97.8	53.05		
93.9	55.44	97.9	52.99		
94.0	55.38	98.0	52.93		
94.1	55.32	98.1	52.87		
94.2	55.25	98.2	52.82		
94.3	55.19	98.3	52.76		
94.4	55.12	98.4	52.70		

Mobility versus Radius

20° C

$$M = \frac{4.80288 \times 10^{-10}}{5654.8667754 \eta r} \left[1 + \frac{L}{r} (0.864 + 0.290 e^{-\frac{1.25r}{L}}) \right]$$

$$L = 10.46 \times 10^{-6} \text{ cm}, \quad \eta = 1.81 \times 10^{-4} \text{ g cm}^{-1} \text{ sec}^{-1}$$

Mobility vs. Radius

$r \cdot 10^6$	$M \cdot 10^3$
0.5	23.27
0.6	16.24
0.7	12.00

$r \cdot 10^6$	$M \cdot 10^4$
0.8	92.34
0.9	73.35
1.0	59.73
1.1	49.63
1.2	41.92
1.3	35.91
1.4	31.13
1.5	27.26
1.6	24.09
1.7	21.45
1.8	19.24
1.9	17.36
2.0	15.75
2.1	14.36
2.2	13.16
2.3	12.10
2.4	11.17
2.5	10.35

$r \cdot 10^6$	$M \cdot 10^5$
2.6	96.21
2.7	89.69
2.8	83.84
2.9	78.57
3.0	73.81
3.1	69.49
3.2	65.56
3.3	61.97
3.4	58.69
3.5	55.67
3.6	52.90
3.7	50.34
3.8	47.98
3.9	45.79
4.0	43.75
4.1	41.86
4.2	40.10
4.3	38.45
4.4	36.92
4.5	35.48
4.6	34.12
4.7	32.86
4.8	31.66
4.9	30.54
5.0	29.48
5.1	28.48
5.2	27.54
5.3	26.64
5.4	25.79
5.5	24.99
5.6	24.23
5.7	23.50
5.8	22.81
5.9	22.16
6.0	21.53
6.1	20.93
6.2	20.37
6.3	19.82
6.4	19.30

Temperature: 20° C

$r \cdot 10^6$	$M \cdot 10^5$
6.5	18.81
6.6	18.33
6.7	17.87
6.8	17.44
6.9	17.02
7.0	16.62
7.1	16.23
7.2	15.86
7.3	15.50
7.4	15.16
7.5	14.83
7.6	14.51
7.7	14.20
7.8	13.91
7.9	13.62
8.0	13.35
8.1	13.08
8.2	12.82
8.3	12.58
8.4	12.34
8.5	12.10
8.6	11.88
8.7	11.66
8.8	11.45
8.9	11.25
9.0	11.05
9.1	10.86
9.2	10.67
9.3	10.49
9.4	10.32
9.5	10.15

$r \cdot 10^6$	$M \cdot 10^6$
9.6	99.80
9.7	98.19
9.8	96.63
9.9	95.12
10.0	93.64
10.1	92.21
10.2	90.81
10.3	89.45
10.4	88.13
10.5	86.84
10.6	85.58
10.7	84.36
10.8	83.16
10.9	82.00
11.0	80.87
11.1	79.76
11.2	78.68
11.3	77.63
11.4	76.60
11.5	75.59
11.6	74.61
11.7	73.65
11.8	72.72
11.9	71.80
12.0	70.91
12.1	70.04
12.2	69.18
12.3	68.34
12.4	67.53
12.5	66.73
12.6	65.94
12.7	65.18
12.8	64.43
12.9	63.69
13.0	62.97
13.1	62.27
13.2	61.57
13.3	60.90
13.4	60.23

Mobility vs. Radius

Temperature: 20 °C

r. $\cdot 10^6$	M. $\cdot 10^6$								
13.5	59.58	17.5	41.24	21.5	31.24	25.5	25.03	29.5	20.83
13.6	58.95	17.6	40.91	21.6	31.05	25.6	24.91	29.6	20.74
13.7	58.32	17.7	40.60	21.7	30.86	25.7	24.78	29.7	20.66
13.8	57.71	17.8	40.28	21.8	30.68	25.8	24.66	29.8	20.57
13.9	57.11	17.9	39.97	21.9	30.49	25.9	24.54	29.9	20.48
14.0	56.52	18.0	39.67	22.0	30.30	26.0	24.42	30.0	20.40
14.1	55.94	18.1	39.37	22.1	30.13	26.1	24.29	30.1	20.31
14.2	55.37	18.2	39.07	22.2	29.95	26.2	24.18	30.2	20.23
14.3	54.81	18.3	38.78	22.3	29.78	26.3	24.07	30.3	20.15
14.4	54.27	18.4	38.49	22.4	29.60	26.4	23.95	30.4	20.07
14.5	53.73	18.5	38.21	22.5	29.42	26.5	23.83	30.5	19.98
14.6	53.20	18.6	37.93	22.6	29.26	26.6	23.72	30.6	19.90
14.7	52.68	18.7	37.66	22.7	29.09	26.7	23.61	30.7	19.82
14.8	52.18	18.8	37.38	22.8	28.92	26.8	23.50	30.8	19.75
14.9	51.68	18.9	37.12	22.9	28.76	26.9	23.39	30.9	19.67
15.0	51.18	19.0	36.85	23.0	28.59	27.0	23.27	31.0	19.59
15.1	50.70	19.1	36.59	23.1	28.43	27.1	23.17	31.1	19.51
15.2	50.23	19.2	36.33	23.2	28.28	27.2	23.06	31.2	19.43
15.3	49.76	19.3	36.08	23.3	28.12	27.3	22.95	31.3	19.36
15.4	49.30	19.4	35.83	23.4	27.96	27.4	22.85	31.4	19.28
15.5	48.85	19.5	35.58	23.5	27.80	27.5	22.74	31.5	19.20
15.6	48.41	19.6	35.34	23.6	27.65	27.6	22.64	31.6	19.13
15.7	47.98	19.7	35.10	23.7	27.50	27.7	22.54	31.7	19.06
15.8	47.55	19.8	34.86	23.8	27.35	27.8	22.44	31.8	18.98
15.9	47.13	19.9	34.62	23.9	27.20	27.9	22.33	31.9	18.91
16.0	46.72	20.0	34.39	24.0	27.05	28.0	22.23	32.0	18.84
16.1	46.31	20.1	34.17	24.1	26.91	28.1	22.13	32.1	18.76
16.2	45.91	20.2	33.94	24.2	26.77	28.2	22.04	32.2	18.69
16.3	45.51	20.3	33.72	24.3	26.63	28.3	21.94	32.3	18.62
16.4	45.13	20.4	33.50	24.4	26.49	28.4	21.84	32.4	18.55
16.5	44.74	20.5	33.27	24.5	26.34	28.5	21.74	32.5	18.48
16.6	44.37	20.6	33.06	24.6	26.21	28.6	21.65	32.6	18.41
16.7	44.00	20.7	32.85	24.7	26.07	28.7	21.56	32.7	18.34
16.8	43.63	20.8	32.64	24.8	25.94	28.8	21.46	32.8	18.28
16.9	43.28	20.9	32.43	24.9	25.80	28.9	21.37	32.9	18.21
17.0	42.92	21.0	32.22	25.0	25.67	29.0	21.28	33.0	18.14
17.1	42.57	21.1	32.03	25.1	25.54	29.1	21.19	33.1	18.07
17.2	42.23	21.2	31.83	25.2	25.41	29.2	21.10	33.2	18.01
17.3	41.90	21.3	31.63	25.3	25.28	29.3	21.01	33.3	17.94
17.4	41.56	21.4	31.43	25.4	25.16	29.4	20.92	33.4	17.88

Mobility vs. Radius

Temperature: 20 °C

$r \cdot 10^6$	$M \cdot 10^6$								
33°5	17°81	37°5	15°54	41°5	13°78	45°5	12°36	49°5	11°21
33°6	17°75	37°6	15°49	41°6	13°74	45°6	12°33	49°6	11°19
33°7	17°68	37°7	15°44	41°7	13°70	45°7	12°30	49°7	11°16
33°8	17°62	37°8	15°39	41°8	13°66	45°8	12°27	49°8	11°13
33°9	17°55	37°9	15°34	41°9	13°62	45°9	12°24	49°9	11°11
34°0	17°49	38°0	15°30	42°0	13°58	46°0	12°21	50°0	11°08
34°1	17°43	38°1	15°25	42°1	13°54	46°1	12°18	50°1	11°06
34°2	17°37	38°2	15°20	42°2	13°51	46°2	12°15	50°2	11°03
34°3	17°31	38°3	15°15	42°3	13°47	46°3	12°12	50°3	11°01
34°4	17°25	38°4	15°11	42°4	13°43	46°4	12°09	50°4	10°98
34°5	17°18	38°5	15°06	42°5	13°39	46°5	12°06	50°5	10°96
34°6	17°12	38°6	15°01	42°6	13°36	46°6	12°03	50°6	10°93
34°7	17°06	38°7	14°97	42°7	13°32	46°7	12°00	50°7	10°91
34°8	17°01	38°8	14°92	42°8	13°28	46°8	11°97	50°8	10°88
34°9	16°95	38°9	14°87	42°9	13°25	46°9	11°94	50°9	10°86
35°0	16°89	39°0	14°83	43°0	13°21	47°0	11°91	51°0	10°83
35°1	16°83	39°1	14°78	43°1	13°18	47°1	11°88	51°1	10°81
35°2	16°77	39°2	14°74	43°2	13°14	47°2	11°85	51°2	10°78
35°3	16°71	39°3	14°70	43°3	13°10	47°3	11°82	51°3	10°76
35°4	16°66	39°4	14°65	43°4	13°07	47°4	11°79	51°4	10°74
35°5	16°60	39°5	14°61	43°5	13°03	47°5	11°76	51°5	10°71
35°6	16°54	39°6	14°56	43°6	13°00	47°6	11°73	51°6	10°69
35°7	16°49	39°7	14°52	43°7	12°96	47°7	11°70	51°7	10°66
35°8	16°43	39°8	14°48	43°8	12°93	47°8	11°68	51°8	10°64
35°9	16°38	39°9	14°43	43°9	12°89	47°9	11°65	51°9	10°62
36°0	16°32	40°0	14°39	44°0	12°86	48°0	11°62	52°0	10°59
36°1	16°27	40°1	14°35	44°1	12°83	48°1	11°59	52°1	10°57
36°2	16°21	40°2	14°30	44°2	12°79	48°2	11°56	52°2	10°55
36°3	16°16	40°3	14°26	44°3	12°76	48°3	11°54	52°3	10°52
36°4	16°11	40°4	14°22	44°4	12°72	48°4	11°51	52°4	10°50
36°5	16°05	40°5	14°18	44°5	12°69	48°5	11°48	52°5	10°48
36°6	16°00	40°6	14°14	44°6	12°66	48°6	11°45	52°6	10°45
36°7	15°95	40°7	14°10	44°7	12°62	48°7	11°43	52°7	10°43
36°8	15°90	40°8	14°06	44°8	12°59	48°8	11°40	52°8	10°41
36°9	15°84	40°9	14°02	44°9	12°56	48°9	11°37	52°9	10°39
37°0	15°79	41°0	13°97	45°0	12°53	49°0	11°34	53°0	10°36
37°1	15°74	41°1	13°93	45°1	12°49	49°1	11°32	53°1	10°34
37°2	15°69	41°2	13°89	45°2	12°46	49°2	11°29	53°2	10°32
37°3	15°64	41°3	13°85	45°3	12°43	49°3	11°26	53°3	10°30
37°4	15°59	41°4	13°82	45°4	12°40	49°4	11°24	53°4	10°28

Mobility vs. Radius

Temperature: 20 °C

r. 10^6	M. 10^6	r. 10^6	M. 10^7						
53°5	10°25			58°5	92°61	62°5	85°94	66°5	80°15
53°6	10°23			58°6	92°43	62°6	85°78	66°6	80°02
53°7	10°21	54°7	99°97	58°7	92°25	62°7	85°63	66°7	79°89
53°8	10°19	54°8	99°76	58°8	92°08	62°8	85°48	66°8	79°75
53°9	10°17	54°9	99°55	58°9	91°90	62°9	85°32	66°9	79°62
54°0	10°14	55°0	99°34	59°0	91°72	63°0	85°17	67°0	79°48
54°1	10°12	55°1	99°14	59°1	91°54	63°1	85°02	67°1	79°35
54°2	10°10	55°2	98°93	59°2	91°37	63°2	84°87	67°2	79°22
54°3	10°08	55°3	98°73	59°3	91°20	63°3	84°72	67°3	79°09
54°4	10°06	55°4	98°53	59°4	91°02	63°4	84°57	67°4	78°96
54°5	10°04	55°5	98°32	59°5	90°85	63°5	84°42	67°5	78°83
54°6	10°02	55°6	98°12	59°6	90°68	63°6	84°27	67°6	78°70
		55°7	97°92	59°7	90°50	63°7	84°12	67°7	78°57
		55°8	97°72	59°8	90°33	63°8	83°97	67°8	78°44
		55°9	97°52	59°9	90°16	63°9	83°82	67°9	78°31
		56°0	97°32	60°0	89°99	64°0	83°67	68°0	78°18
		56°1	97°13	60°1	89°82	64°1	83°53	68°1	78°05
		56°2	96°93	60°2	89°65	64°2	83°38	68°2	77°92
		56°3	96°73	60°3	89°49	64°3	83°24	68°3	77°80
		56°4	96°54	60°4	89°32	64°4	83°09	68°4	77°67
		56°5	96°34	60°5	89°15	64°5	82°95	68°5	77°54
		56°6	96°15	60°6	88°99	64°6	82°80	68°6	77°42
		56°7	95°96	60°7	88°82	64°7	82°66	68°7	77°29
		56°8	95°77	60°8	88°66	64°8	82°52	68°8	77°17
		56°9	95°57	60°9	88°49	64°9	82°37	68°9	77°04
		57°0	95°38	61°0	88°33	65°0	82°23	69°0	76°91
		57°1	95°19	61°1	88°16	65°1	82°09	69°1	76°79
		57°2	95°00	61°2	88°00	65°2	81°95	69°2	76°67
		57°3	94°82	61°3	87°84	65°3	81°81	69°3	76°54
		57°4	94°63	61°4	87°68	65°4	81°67	69°4	76°42
		57°5	94°44	61°5	87°51	65°5	81°53	69°5	76°30
		57°6	94°25	61°6	87°36	65°6	81°39	69°6	76°18
		57°7	94°07	61°7	87°20	65°7	81°25	69°7	76°05
		57°8	93°88	61°8	87°04	65°8	81°11	69°8	75°93
		57°9	93°70	61°9	86°88	65°9	80°97	69°9	75°81
		58°0	93°52	62°0	86°72	66°0	80°83	70°0	75°69
		58°1	93°33	62°1	86°56	66°1	80°70	70°1	75°57
		58°2	93°15	62°2	86°41	66°2	80°56	70°2	75°45
		58°3	92°97	62°3	86°25	66°3	80°43	70°3	75°33
		58°4	92°79	62°4	86°09	66°4	80°29	70°4	75°21

Mobility vs. Radius

Temperature: 20° C

r. 10^6	M. 10^7								
70.5	75.09	74.5	70.63	78.5	66.66	82.5	63.11	86.5	59.92
70.6	74.98	74.6	70.52	78.6	66.57	82.6	63.03	86.6	59.84
70.7	74.86	74.7	70.42	78.7	66.47	82.7	62.94	86.7	59.77
70.8	74.74	74.8	70.31	78.8	66.38	82.8	62.86	86.8	59.69
70.9	74.62	74.9	70.21	78.9	66.29	82.9	62.78	86.9	59.61
71.0	74.50	75.0	70.11	79.0	66.19	83.0	62.69	87.0	59.54
71.1	74.39	75.1	70.00	79.1	66.10	83.1	62.61	87.1	59.46
71.2	74.27	75.2	69.90	79.2	66.01	83.2	62.53	87.2	59.39
71.3	74.16	75.3	69.80	79.3	65.92	83.3	62.44	87.3	59.32
71.4	74.04	75.4	69.69	79.4	65.83	83.4	62.36	87.4	59.24
71.5	73.92	75.5	69.59	79.5	65.73	83.5	62.28	87.5	59.17
71.6	73.81	75.6	69.49	79.6	65.64	83.6	62.20	87.6	59.09
71.7	73.70	75.7	69.39	79.7	65.55	83.7	62.12	87.7	59.02
71.8	73.58	75.8	69.29	79.8	65.46	83.8	62.04	87.8	58.95
71.9	73.47	75.9	69.19	79.9	65.37	83.9	61.95	87.9	58.87
72.0	73.35	76.0	69.09	80.0	65.28	84.0	61.87	88.0	58.80
72.1	73.24	76.1	68.99	80.1	65.19	84.1	61.79	88.1	58.73
72.2	73.13	76.2	68.89	80.2	65.10	84.2	61.71	88.2	58.65
72.3	73.02	76.3	68.79	80.3	65.01	84.3	61.63	88.3	58.58
72.4	72.90	76.4	68.69	80.4	64.93	84.4	61.55	88.4	58.51
72.5	72.79	76.5	68.59	80.5	64.84	84.5	61.47	88.5	58.44
72.6	72.68	76.6	68.49	80.6	64.75	84.6	61.39	88.6	58.37
72.7	72.57	76.7	68.39	80.7	64.66	84.7	61.31	88.7	58.29
72.8	72.46	76.8	68.29	80.8	64.57	84.8	61.23	88.8	58.22
72.9	72.35	76.9	68.19	80.9	64.48	84.9	61.15	88.9	58.15
73.0	72.24	77.0	68.09	81.0	64.40	85.0	61.08	89.0	58.08
73.1	72.13	77.1	68.00	81.1	64.31	85.1	61.00	89.1	58.01
73.2	72.02	77.2	67.90	81.2	64.22	85.2	60.92	89.2	57.94
73.3	71.91	77.3	67.80	81.3	64.13	85.3	60.84	89.3	57.87
73.4	71.80	77.4	67.71	81.4	64.05	85.4	60.76	89.4	57.79
73.5	71.69	77.5	67.61	81.5	63.96	85.5	60.68	89.5	57.72
73.6	71.59	77.6	67.51	81.6	63.88	85.6	60.61	89.6	57.65
73.7	71.48	77.7	67.42	81.7	63.79	85.7	60.53	89.7	57.58
73.8	71.37	77.8	67.32	81.8	63.70	85.8	60.45	89.8	57.51
73.9	71.26	77.9	67.23	81.9	63.62	85.9	60.37	89.9	57.44
74.0	71.16	78.0	67.13	82.0	63.53	86.0	60.30	90.0	57.37
74.1	71.05	78.1	67.04	82.1	63.45	86.1	60.22	90.1	57.31
74.2	70.94	78.2	66.94	82.2	63.36	86.2	60.14	90.2	57.24
74.3	70.84	78.3	66.85	82.3	63.28	86.3	60.07	90.3	57.17
74.4	70.73	78.4	66.75	82.4	63.19	86.4	59.99	90.4	57.10

Mobility vs. Radius

Temperature: 20° C

r. $\cdot 10^6$	M. $\cdot 10^7$	r. $\cdot 10^6$	M. $\cdot 10^7$	r. $\cdot 10^6$	M. $\cdot 10^7$
90°5	57°03	94°5	54°40	98°5	52°01
90°6	56°96	94°6	54°34	98°6	51°95
90°7	56°89	94°7	54°28	98°7	51°90
90°8	56°82	94°8	54°22	98°8	51°84
90°9	56°75	94°9	54°16	98°9	51°78
91°0	56°69	95°0	54°09	99°0	51°73
91°1	56°62	95°1	54°03	99°1	51°67
91°2	56°55	95°2	53°97	99°2	51°61
91°3	56°48	95°3	53°91	99°3	51°56
91°4	56°42	95°4	53°85	99°4	51°50
91°5	56°35	95°5	53°79	99°5	51°44
91°6	56°28	95°6	53°72	99°6	51°39
91°7	56°22	95°7	53°66	99°7	51°33
91°8	56°15	95°8	53°60	99°8	51°28
91°9	56°08	95°9	53°54	99°9	51°22
92°0	56°02	96°0	53°48	100°0	51°17
92°1	55°95	96°1	53°42		
92°2	55°88	96°2	53°36		
92°3	55°82	96°3	53°30		
92°4	55°75	96°4	53°24		
92°5	55°69	96°5	53°18		
92°6	55°62	96°6	53°12		
92°7	55°56	96°7	53°06		
92°8	55°49	96°8	53°00		
92°9	55°42	96°9	52°94		
93°0	55°36	97°0	52°88		
93°1	55°30	97°1	52°82		
93°2	55°23	97°2	52°77		
93°3	55°17	97°3	52°71		
93°4	55°10	97°4	52°65		
93°5	55°04	97°5	52°59		
93°6	54°97	97°6	52°53		
93°7	54°91	97°7	52°47		
93°8	54°85	97°8	52°41		
93°9	54°78	97°9	52°36		
94°0	54°72	98°0	52°30		
94°1	54°66	98°1	52°24		
94°2	54°59	98°2	52°18		
94°3	54°53	98°3	52°13		
94°4	54°47	98°4	52°07		

Mobility versus Radius

25 °C

$$M = \frac{4.80288 \times 10^{-10}}{5654.8667754 \eta r} \left[1 + \frac{L}{r} (0.864 + 0.290 e^{-\frac{1.25r}{L}}) \right]$$

$$L = 10.70 \times 10^{-6} \text{ cm}, \quad \eta = 1.835 \times 10^{-4} \text{ g cm}^{-1} \text{ sec}^{-1}$$

Mobility vs. Radius

Temperature: 25°C

r. 10^6	M. 10^3
0.5	23.46
0.6	16.38
0.7	12.09

r. 10^6	M. 10^4
0.8	93.08
0.9	73.93
1.0	60.20
1.1	50.01
1.2	42.24
1.3	36.18
1.4	31.36
1.5	27.46
1.6	24.26
1.7	21.60
1.8	19.37
1.9	17.48
2.0	15.85
2.1	14.46
2.2	13.24
2.3	12.18
2.4	11.24
2.5	10.41

r. 10^6	M. 10^5
2.6	96.78
2.7	90.21
2.8	84.32
2.9	79.01
3.0	74.21
3.1	69.86
3.2	65.90
3.3	62.29
3.4	58.98
3.5	55.94
3.6	53.15
3.7	50.58
3.8	48.19
3.9	45.99
4.0	43.94
4.1	42.04
4.2	40.26
4.3	38.61
4.4	37.06
4.5	35.61
4.6	34.25
4.7	32.97
4.8	31.77
4.9	30.64
5.0	29.58
5.1	28.57
5.2	27.62
5.3	26.72
5.4	25.87
5.5	25.06
5.6	24.29
5.7	23.56
5.8	22.87
5.9	22.21
6.0	21.58
6.1	20.98
6.2	20.41
6.3	19.86
6.4	19.34
6.5	18.84
6.6	18.36
6.7	17.90
6.8	17.46
6.9	17.04
7.0	16.64
7.1	16.25
7.2	15.88
7.3	15.52
7.4	15.17
7.5	14.84
7.6	14.52
7.7	14.21
7.8	13.92
7.9	13.63
8.0	13.35
8.1	13.09
8.2	12.83
8.3	12.58
8.4	12.34
8.5	12.10
8.6	11.88
8.7	11.66
8.8	11.45
8.9	11.24
9.0	11.05
9.1	10.85
9.2	10.67
9.3	10.48
9.4	10.31
9.5	10.14

r. 10^6	M. 10^5
9.6	99.72
9.7	98.11
9.8	96.54
9.9	95.02
10.0	93.54
10.1	92.10
10.2	90.70
10.3	89.33
10.4	88.01
10.5	86.71
10.6	85.45
10.7	84.23
10.8	83.03
10.9	81.86
11.0	80.72
11.1	79.61
11.2	78.53
11.3	77.48
11.4	76.44
11.5	75.44
11.6	74.45
11.7	73.49
11.8	72.55
11.9	71.64
12.0	70.74
12.1	69.86
12.2	69.01
12.3	68.17
12.4	67.35
12.5	66.55
12.6	65.76
12.7	64.99
12.8	64.24
12.9	63.51
13.0	62.78
13.1	62.08
13.2	61.39
13.3	60.71
13.4	60.04

Mobility vs. Radius

Temperature: 25° C

r. 10^6	M. 10^6								
13.5	59.39	17.5	41.03	21.5	31.04	25.5	24.84	29.5	20.66
13.6	58.75	17.6	40.71	21.6	30.85	25.6	24.72	29.6	20.57
13.7	58.13	17.7	40.39	21.7	30.66	25.7	24.60	29.7	20.49
13.8	57.51	17.8	40.07	21.8	30.48	25.8	24.48	29.8	20.40
13.9	56.91	17.9	39.77	21.9	30.29	25.9	24.36	29.9	20.32
14.0	56.32	18.0	39.46	22.0	30.11	26.0	24.23	30.0	20.23
14.1	55.74	18.1	39.16	22.1	29.93	26.1	24.12	30.1	20.15
14.2	55.17	18.2	38.87	22.2	29.76	26.2	24.00	30.2	20.07
14.3	54.61	18.3	38.58	22.3	29.58	26.3	23.88	30.3	19.98
14.4	54.07	18.4	38.29	22.4	29.40	26.4	23.77	30.4	19.90
14.5	53.53	18.5	38.00	22.5	29.23	26.5	23.65	30.5	19.82
14.6	53.00	18.6	37.73	22.6	29.06	26.6	23.54	30.6	19.74
14.7	52.48	18.7	37.45	22.7	28.90	26.7	23.43	30.7	19.66
14.8	51.97	18.8	37.18	22.8	28.73	26.8	23.32	30.8	19.58
14.9	51.47	18.9	36.91	22.9	28.56	26.9	23.21	30.9	19.50
15.0	50.98	19.0	36.65	23.0	28.40	27.0	23.10	31.0	19.42
15.1	50.50	19.1	36.39	23.1	28.24	27.1	22.99	31.1	19.35
15.2	50.02	19.2	36.13	23.2	28.08	27.2	22.88	31.2	19.27
15.3	49.56	19.3	35.87	23.3	27.93	27.3	22.78	31.3	19.19
15.4	49.10	19.4	35.62	23.4	27.77	27.4	22.67	31.4	19.12
15.5	48.65	19.5	35.38	23.5	27.61	27.5	22.57	31.5	19.04
15.6	48.21	19.6	35.13	23.6	27.46	27.6	22.46	31.6	18.97
15.7	47.77	19.7	34.89	23.7	27.31	27.7	22.36	31.7	18.90
15.8	47.34	19.8	34.65	23.8	27.16	27.8	22.26	31.8	18.82
15.9	46.92	19.9	34.42	23.9	27.01	27.9	22.16	31.9	18.75
16.0	46.51	20.0	34.19	24.0	26.87	28.0	22.06	32.0	18.68
16.1	46.10	20.1	33.96	24.1	26.72	28.1	21.96	32.1	18.61
16.2	45.70	20.2	33.73	24.2	26.58	28.2	21.86	32.2	18.54
16.3	45.31	20.3	33.51	24.3	26.44	28.3	21.77	32.3	18.46
16.4	44.92	20.4	33.29	24.4	26.30	28.4	21.67	32.4	18.39
16.5	44.54	20.5	33.07	24.5	26.16	28.5	21.57	32.5	18.32
16.6	44.16	20.6	32.86	24.6	26.02	28.6	21.48	32.6	18.26
16.7	43.79	20.7	32.65	24.7	25.89	28.7	21.39	32.7	18.19
16.8	43.43	20.8	32.44	24.8	25.75	28.8	21.29	32.8	18.12
16.9	43.07	20.9	32.23	24.9	25.62	28.9	21.20	32.9	18.05
17.0	42.71	21.0	32.02	25.0	25.48	29.0	21.11	33.0	17.98
17.1	42.37	21.1	31.83	25.1	25.36	29.1	21.02	33.1	17.92
17.2	42.02	21.2	31.63	25.2	25.23	29.2	20.93	33.2	17.85
17.3	41.69	21.3	31.43	25.3	25.10	29.3	20.84	33.3	17.79
17.4	41.36	21.4	31.23	25.4	24.97	29.4	20.75	33.4	17.72

Mobility vs. Radius

Temperature: 25 °C

r. 10^6	M. 10^6								
33.5	17.65	37.5	15.40	41.5	13.64	45.5	12.24	49.5	11.10
33.6	17.59	37.6	15.35	41.6	13.61	45.6	12.21	49.6	11.07
33.7	17.53	37.7	15.30	41.7	13.57	45.7	12.18	49.7	11.05
33.8	17.46	37.8	15.25	41.8	13.53	45.8	12.15	49.8	11.02
33.9	17.40	37.9	15.20	41.9	13.49	45.9	12.12	49.9	11.00
34.0	17.34	38.0	15.16	42.0	13.45	46.0	12.09	50.0	10.97
34.1	17.28	38.1	15.11	42.1	13.41	46.1	12.06	50.1	10.95
34.2	17.22	38.2	15.06	42.2	13.38	46.2	12.03	50.2	10.92
34.3	17.15	38.3	15.01	42.3	13.34	46.3	12.00	50.3	10.90
34.4	17.09	38.4	14.97	42.4	13.30	46.4	11.97	50.4	10.87
34.5	17.03	38.5	14.92	42.5	13.27	46.5	11.94	50.5	10.85
34.6	16.97	38.6	14.87	42.6	13.23	46.6	11.91	50.6	10.82
34.7	16.91	38.7	14.83	42.7	13.19	46.7	11.88	50.7	10.80
34.8	16.86	38.8	14.78	42.8	13.16	46.8	11.85	50.8	10.77
34.9	16.80	38.9	14.74	42.9	13.12	46.9	11.82	50.9	10.75
35.0	16.74	39.0	14.69	43.0	13.08	47.0	11.79	51.0	10.72
35.1	16.68	39.1	14.65	43.1	13.05	47.1	11.76	51.1	10.70
35.2	16.62	39.2	14.60	43.2	13.01	47.2	11.73	51.2	10.67
35.3	16.57	39.3	14.56	43.3	12.98	47.3	11.70	51.3	10.65
35.4	16.51	39.4	14.51	43.4	12.94	47.4	11.67	51.4	10.63
35.5	16.45	39.5	14.47	43.5	12.91	47.5	11.64	51.5	10.60
35.6	16.40	39.6	14.43	43.6	12.87	47.6	11.62	51.6	10.58
35.7	16.34	39.7	14.38	43.7	12.84	47.7	11.59	51.7	10.56
35.8	16.29	39.8	14.34	43.8	12.80	47.8	11.56	51.8	10.53
35.9	16.23	39.9	14.30	43.9	12.77	47.9	11.53	51.9	10.51
36.0	16.18	40.0	14.25	44.0	12.73	48.0	11.50	52.0	10.48
36.1	16.12	40.1	14.21	44.1	12.70	48.1	11.47	52.1	10.46
36.2	16.07	40.2	14.17	44.2	12.67	48.2	11.45	52.2	10.44
36.3	16.01	40.3	14.13	44.3	12.63	48.3	11.42	52.3	10.42
36.4	15.96	40.4	14.09	44.4	12.60	48.4	11.39	52.4	10.39
36.5	15.91	40.5	14.04	44.5	12.57	48.5	11.36	52.5	10.37
36.6	15.86	40.6	14.00	44.6	12.53	48.6	11.34	52.6	10.35
36.7	15.80	40.7	13.96	44.7	12.50	48.7	11.31	52.7	10.32
36.8	15.75	40.8	13.92	44.8	12.47	48.8	11.28	52.8	10.30
36.9	15.70	40.9	13.88	44.9	12.44	48.9	11.26	52.9	10.28
37.0	15.65	41.0	13.84	45.0	12.40	49.0	11.23	53.0	10.26
37.1	15.60	41.1	13.80	45.1	12.37	49.1	11.20	53.1	10.24
37.2	15.55	41.2	13.76	45.2	12.34	49.2	11.18	53.2	10.21
37.3	15.50	41.3	13.72	45.3	12.31	49.3	11.15	53.3	10.19
37.4	15.45	41.4	13.68	45.4	12.27	49.4	11.12	53.4	10.17

Mobility vs. Radius

Temperature: 25° C

r. 10^6	M. 10^6	r. 10^6	M. 10^7						
53°5	10°15			57°5	93°44	61°5	86°58	65°5	80°64
53°6	10°13			57°6	93°26	61°6	86°42	65°6	80°50
53°7	10°10			57°7	93°08	61°7	86°26	65°7	80°37
53°8	10°08			57°8	92°89	61°8	86°10	65°8	80°23
53°9	10°06			57°9	92°71	61°9	85°95	65°9	80°09
54°0	10°04			58°0	92°53	62°0	85°79	66°0	79°95
54°1	10°02			58°1	92°35	62°1	85°63	66°1	79°82
		54°2	99°97	58°2	92°17	62°2	85°48	66°2	79°68
		54°3	99°76	58°3	91°99	62°3	85°32	66°3	79°55
		54°4	99°55	58°4	91°81	62°4	85°17	66°4	79°41
		54°5	99°34	58°5	91°63	62°5	85°01	66°5	79°28
		54°6	99°13	58°6	91°45	62°6	84°86	66°6	79°15
		54°7	98°93	58°7	91°28	62°7	84°71	66°7	79°01
		54°8	98°72	58°8	91°10	62°8	84°56	66°8	78°88
		54°9	98°51	58°9	90°92	62°9	84°40	66°9	78°75
		55°0	98°31	59°0	90°75	63°0	84°25	67°0	78°62
		55°1	98°11	59°1	90°57	63°1	84°10	67°1	78°49
		55°2	97°90	59°2	90°40	63°2	83°95	67°2	78°36
		55°3	97°70	59°3	90°23	63°3	83°80	67°3	78°22
		55°4	97°50	59°4	90°05	63°4	83°65	67°4	78°09
		55°5	97°30	59°5	89°88	63°5	83°50	67°5	77°96
		55°6	97°10	59°6	89°71	63°6	83°36	67°6	77°84
		55°7	96°90	59°7	89°54	63°7	83°21	67°7	77°71
		55°8	96°70	59°8	89°37	63°8	83°06	67°8	77°58
		55°9	96°50	59°9	89°20	63°9	82°92	67°9	77°45
		56°0	96°30	60°0	89°03	64°0	82°77	68°0	77°32
		56°1	96°11	60°1	88°87	64°1	82°63	68°1	77°20
		56°2	95°91	60°2	88°70	64°2	82°48	68°2	77°07
		56°3	95°72	60°3	88°53	64°3	82°34	68°3	76°94
		56°4	95°53	60°4	88°37	64°4	82°19	68°4	76°82
		56°5	95°33	60°5	88°20	64°5	82°05	68°5	76°69
		56°6	95°14	60°6	88°03	64°6	81°91	68°6	76°57
		56°7	94°95	60°7	87°87	64°7	81°76	68°7	76°44
		56°8	94°76	60°8	87°71	64°8	81°62	68°8	76°32
		56°9	94°57	60°9	87°54	64°9	81°48	68°9	76°19
		57°0	94°38	61°0	87°38	65°0	81°34	69°0	76°07
		57°1	94°19	61°1	87°22	65°1	81°20	69°1	75°95
		57°2	94°00	61°2	87°06	65°2	81°06	69°2	75°82
		57°3	93°82	61°3	86°90	65°3	80°92	69°3	75°70
		57°4	93°63	61°4	86°74	65°4	80°78	69°4	75°58

Mobility vs. Radius

Temperature: 25°C

r. 10^6	M. 10^7								
69°5	75°46	73°5	70°89	77°5	66°85	81°5	63°23	85°5	59°99
69°6	75°34	73°6	70°79	77°6	66°75	81°6	63°15	85°6	59°91
69°7	75°22	73°7	70°68	77°7	66°66	81°7	63°06	85°7	59°84
69°8	75°10	73°8	70°58	77°8	66°56	81°8	62°98	85°8	59°76
69°9	74°98	73°9	70°47	77°9	66°47	81°9	62°89	85°9	59°68
70°0	74°86	74°0	70°36	78°0	66°37	82°0	62°81	86°0	59°61
70°1	74°74	74°1	70°26	78°1	66°28	82°1	62°73	86°1	59°53
70°2	74°62	74°2	70°15	78°2	66°19	82°2	62°64	86°2	59°45
70°3	74°50	74°3	70°05	78°3	66°09	82°3	62°56	86°3	59°38
70°4	74°38	74°4	69°94	78°4	66°00	82°4	62°47	86°4	59°30
70°5	74°26	74°5	69°84	78°5	65°91	82°5	62°39	86°5	59°23
70°6	74°15	74°6	69°73	78°6	65°81	82°6	62°31	86°6	59°15
70°7	74°03	74°7	69°63	78°7	65°72	82°7	62°23	86°7	59°08
70°8	73°91	74°8	69°53	78°8	65°63	82°8	62°14	86°8	59°00
70°9	73°80	74°9	69°42	78°9	65°54	82°9	62°06	86°9	58°93
71°0	73°68	75°0	69°32	79°0	65°45	83°0	61°98	87°0	58°85
71°1	73°56	75°1	69°22	79°1	65°35	83°1	61°90	87°1	58°78
71°2	73°45	75°2	69°12	79°2	65°26	83°2	61°81	87°2	58°71
71°3	73°34	75°3	69°02	79°3	65°17	83°3	61°73	87°3	58°63
71°4	73°22	75°4	68°91	79°4	65°08	83°4	61°65	87°4	58°56
71°5	73°11	75°5	68°81	79°5	64°99	83°5	61°57	87°5	58°49
71°6	72°99	75°6	68°71	79°6	64°90	83°6	61°49	87°6	58°41
71°7	72°88	75°7	68°61	79°7	64°81	83°7	61°41	87°7	58°34
71°8	72°77	75°8	68°51	79°8	64°72	83°8	61°33	87°8	58°27
71°9	72°65	75°9	68°41	79°9	64°63	83°9	61°25	87°9	58°20
72°0	72°54	76°0	68°31	80°0	64°54	84°0	61°17	88°0	58°12
72°1	72°43	76°1	68°21	80°1	64°45	84°1	61°09	88°1	58°05
72°2	72°32	76°2	68°11	80°2	64°37	84°2	61°01	88°2	57°98
72°3	72°21	76°3	68°01	80°3	64°28	84°3	60°93	88°3	57°91
72°4	72°09	76°4	67°91	80°4	64°19	84°4	60°85	88°4	57°84
72°5	71°98	76°5	67°82	80°5	64°10	84°5	60°77	88°5	57°76
72°6	71°87	76°6	67°72	80°6	64°01	84°6	60°69	88°6	57°69
72°7	71°76	76°7	67°62	80°7	63°93	84°7	60°61	88°7	57°62
72°8	71°65	76°8	67°52	80°8	63°84	84°8	60°53	88°8	57°55
72°9	71°54	76°9	67°43	80°9	63°75	84°9	60°45	88°9	57°48
73°0	71°43	77°0	67°33	81°0	63°66	85°0	60°38	89°0	57°41
73°1	71°33	77°1	67°23	81°1	63°58	85°1	60°30	89°1	57°34
73°2	71°22	77°2	67°14	81°2	63°49	85°2	60°22	89°2	57°27
73°3	71°11	77°3	67°04	81°3	63°41	85°3	60°14	89°3	57°20
73°4	71°00	77°4	66°94	81°4	63°32	85°4	60°07	89°4	57°13

Mobility vs. Radius

Temperature: 25° C

$r \cdot 10^6$	$M \cdot 10^7$	$r \cdot 10^6$	$M \cdot 10^7$	$r \cdot 10^6$	$M \cdot 10^7$
89°5	57°06	93°5	54°40	97°5	51°97
89°6	56°99	93°6	54°33	97°6	51°92
89°7	56°92	93°7	54°27	97°7	51°86
89°8	56°85	93°8	54°21	97°8	51°80
89°9	56°78	93°9	54°15	97°9	51°74
90°0	56°71	94°0	54°08	98°0	51°69
90°1	56°64	94°1	54°02	98°1	51°63
90°2	56°57	94°2	53°96	98°2	51°57
90°3	56°51	94°3	53°90	98°3	51°51
90°4	56°44	94°4	53°83	98°4	51°46
90°5	56°37	94°5	53°77	98°5	51°40
90°6	56°30	94°6	53°71	98°6	51°34
90°7	56°23	94°7	53°65	98°7	51°29
90°8	56°17	94°8	53°59	98°8	51°23
90°9	56°10	94°9	53°52	98°9	51°18
91°0	56°03	95°0	53°46	99°0	51°12
91°1	55°96	95°1	53°40	99°1	51°06
91°2	55°90	95°2	53°34	99°2	51°01
91°3	55°83	95°3	53°28	99°3	50°95
91°4	55°76	95°4	53°22	99°4	50°90
91°5	55°70	95°5	53°16	99°5	50°84
91°6	55°63	95°6	53°10	99°6	50°78
91°7	55°56	95°7	53°04	99°7	50°73
91°8	55°50	95°8	52°98	99°8	50°67
91°9	55°43	95°9	52°92	99°9	50°62
92°0	55°37	96°0	52°86	100°0	50°56
92°1	55°30	96°1	52°80		
92°2	55°24	96°2	52°74		
92°3	55°17	96°3	52°68		
92°4	55°10	96°4	52°62		
92°5	55°04	96°5	52°56		
92°6	54°97	96°6	52°50		
92°7	54°91	96°7	52°44		
92°8	54°85	96°8	52°38		
92°9	54°78	96°9	52°32		
93°0	54°72	97°0	52°26		
93°1	54°65	97°1	52°21		
93°2	54°59	97°2	52°15		
93°3	54°53	97°3	52°09		
93°4	54°46	97°4	52°03		

Radius vs. Mobility

$$10^{10} \rightarrow 10^6$$

$$10^{10} \rightarrow 10^6$$

Radius versus Mobility

15 °C

$$M = \frac{4.80288 \times 10^{-10}}{5654.8667754 \eta r} \left[1 + \frac{L}{r} (0.864 + 0.290 e^{-\frac{1.25r}{L}}) \right]$$

$$L = 10.23 \times 10^{-6} \text{ cm}, \quad \eta = 1.785 \times 10^{-4} \text{ g cm}^{-1} \text{ sec}^{-1}$$

Radius vs. Mobility

Temperature: 15° C

M. 10^3	r. 10^6								
100.0	2385	80.0	2669	60.0	3085	40.0	3786	20.0	5377
99.5	2391	79.5	2678	59.5	3098	39.5	3811	19.5	5453
99.0	2397	79.0	2686	59.0	3112	39.0	3836	19.0	5528
98.5	2404	78.5	2695	58.5	3125	38.5	3862	18.5	5604
98.0	2410	78.0	2703	58.0	3139	38.0	3887	18.0	5679
97.5	2416	77.5	2712	57.5	3152	37.5	3912	17.5	5755
97.0	2422	77.0	2721	57.0	3166	37.0	3940	17.0	5849
96.5	2429	76.5	2730	56.5	3181	36.5	3967	16.5	5943
96.0	2435	76.0	2739	56.0	3195	36.0	3995	16.0	6036
95.5	2442	75.5	2748	55.5	3210	35.5	4022	15.5	6130
95.0	2448	75.0	2757	55.0	3224	35.0	4050	15.0	6224
94.5	2455	74.5	2767	54.5	3239	34.5	4081	14.5	6345
94.0	2461	74.0	2776	54.0	3254	34.0	4112	14.0	6466
93.5	2468	73.5	2786	53.5	3270	33.5	4143	13.5	6587
93.0	2474	73.0	2795	53.0	3285	33.0	4174	13.0	6708
92.5	2481	72.5	2805	52.5	3300	32.5	4205	12.5	6829
92.0	2488	72.0	2815	52.0	3317	32.0	4240	12.0	6994
91.5	2495	71.5	2825	51.5	3333	31.5	4275	11.5	7158
91.0	2501	71.0	2835	51.0	3350	31.0	4309	11.0	7323
90.5	2508	70.5	2845	50.5	3366	30.5	4344	10.5	7487
90.0	2515	70.0	2855	50.0	3383	30.0	4379		
89.5	2522	69.5	2866	49.5	3401	29.5	4418		
89.0	2529	69.0	2876	49.0	3418	29.0	4458		
88.5	2537	68.5	2887	48.5	3436	28.5	4497		
88.0	2544	68.0	2897	48.0	3453	28.0	4537		
87.5	2551	67.5	2908	47.5	3471	27.5	4576		
87.0	2559	67.0	2919	47.0	3490	27.0	4621		
86.5	2566	66.5	2930	46.5	3509	26.5	4666		
86.0	2574	66.0	2941	46.0	3529	26.0	4712		
85.5	2581	65.5	2952	45.5	3548	25.5	4757		
85.0	2589	65.0	2963	45.0	3567	25.0	4802		
84.5	2597	64.5	2975	44.5	3588	24.5	4855		
84.0	2605	64.0	2987	44.0	3609	24.0	4908		
83.5	2612	63.5	2999	43.5	3630	23.5	4960		
83.0	2620	63.0	3011	43.0	3651	23.0	5013		
82.5	2628	62.5	3023	42.5	3672	22.5	5066		
82.0	2636	62.0	3035	42.0	3695	22.0	5128		
81.5	2644	61.5	3048	41.5	3718	21.5	5190		
81.0	2653	61.0	3060	41.0	3740	21.0	5253		
80.5	2661	60.5	3073	40.5	3763	20.5	5315		

Radius vs. Mobility

Temperature: 15° C

M. 10^4	r. 10^6								
100.0	7652	80.0	8577	60.0	9940	40.0	1.225	20.0	1.758
99.5	7672	79.5	8605	59.5	9984	39.5	1.233	19.5	1.784
99.0	7692	79.0	8633	59.0	1.003	39.0	1.242	19.0	1.809
98.5	7712	78.5	8661	58.5	1.007	38.5	1.250	18.5	1.835
98.0	7732	78.0	8689	58.0	1.012	38.0	1.259	18.0	1.860
97.5	7752	77.5	8717	57.5	1.016	37.5	1.267	17.5	1.886
97.0	7773	77.0	8747	57.0	1.021	37.0	1.276	17.0	1.918
96.5	7793	76.5	8776	56.5	1.026	36.5	1.285	16.5	1.950
96.0	7814	76.0	8806	56.0	1.030	36.0	1.295	16.0	1.982
95.5	7834	75.5	8835	55.5	1.035	35.5	1.304	15.5	2.014
95.0	7855	75.0	8865	55.0	1.040	35.0	1.313	15.0	2.046
94.5	7877	74.5	8896	54.5	1.045	34.5	1.323	14.5	2.088
94.0	7898	74.0	8927	54.0	1.050	34.0	1.333	14.0	2.129
93.5	7920	73.5	8958	53.5	1.055	33.5	1.344	13.5	2.171
93.0	7941	73.0	8989	53.0	1.060	33.0	1.354	13.0	2.212
92.5	7963	72.5	9020	52.5	1.065	32.5	1.364	12.5	2.254
92.0	7985	72.0	9053	52.0	1.070	32.0	1.376	12.0	2.311
91.5	8008	71.5	9086	51.5	1.076	31.5	1.387	11.5	2.368
91.0	8030	71.0	9118	51.0	1.081	31.0	1.399	11.0	2.425
90.5	8053	70.5	9151	50.5	1.087	30.5	1.410	10.5	2.482
90.0	8075	70.0	9184	50.0	1.092	30.0	1.422		
89.5	8098	69.5	9219	49.5	1.098	29.5	1.435		
89.0	8122	69.0	9253	49.0	1.104	29.0	1.448		
88.5	8145	68.5	9288	48.5	1.109	28.5	1.462		
88.0	8169	68.0	9322	48.0	1.115	28.0	1.475		
87.5	8192	67.5	9357	47.5	1.121	27.5	1.488		
87.0	8217	67.0	9394	47.0	1.127	27.0	1.503		
86.5	8241	66.5	9430	46.5	1.134	26.5	1.518		
86.0	8266	66.0	9467	46.0	1.140	26.0	1.534		
85.5	8290	65.5	9503	45.5	1.147	25.5	1.549		
85.0	8315	65.0	9540	45.0	1.153	25.0	1.564		
84.5	8341	64.5	9579	44.5	1.160	24.5	1.582		
84.0	8366	64.0	9618	44.0	1.167	24.0	1.600		
83.5	8392	63.5	9656	43.5	1.173	23.5	1.617		
83.0	8417	63.0	9695	43.0	1.180	23.0	1.635		
82.5	8443	62.5	9734	42.5	1.187	22.5	1.653		
82.0	8470	62.0	9775	42.0	1.195	22.0	1.674		
81.5	8497	61.5	9816	41.5	1.202	21.5	1.695		
81.0	8523	61.0	9858	41.0	1.210	21.0	1.716		
80.5	8550	60.5	9899	40.5	1.217	20.5	1.737		

Radius vs. Mobility

Temperature: 15° C

M. 10^5	r. 10^6								
100.0	2.539	80.0	2.864	60.0	3.351	40.0	4.198	20.0	6.262
99.5	2.546	79.5	2.874	59.5	3.367	39.5	4.229	19.5	6.366
99.0	2.553	79.0	2.884	59.0	3.383	39.0	4.260	19.0	6.470
98.5	2.560	78.5	2.894	58.5	3.398	38.5	4.291	18.5	6.574
98.0	2.567	78.0	2.904	58.0	3.414	38.0	4.322	18.0	6.678
97.5	2.574	77.5	2.914	57.5	3.430	37.5	4.353	17.5	6.782
97.0	2.581	77.0	2.924	57.0	3.447	37.0	4.388	17.0	6.915
96.5	2.588	76.5	2.935	56.5	3.464	36.5	4.423	16.5	7.048
96.0	2.596	76.0	2.945	56.0	3.481	36.0	4.457	16.0	7.180
95.5	2.603	75.5	2.956	55.5	3.498	35.5	4.492	15.5	7.313
95.0	2.610	75.0	2.966	55.0	3.515	35.0	4.527	15.0	7.446
94.5	2.618	74.5	2.977	54.5	3.533	34.5	4.566	14.5	7.623
94.0	2.625	74.0	2.988	54.0	3.552	34.0	4.605	14.0	7.801
93.5	2.633	73.5	3.000	53.5	3.570	33.5	4.643	13.5	7.978
93.0	2.640	73.0	3.011	53.0	3.589	33.0	4.682	13.0	8.156
92.5	2.648	72.5	3.022	52.5	3.607	32.5	4.721	12.5	8.333
92.0	2.656	72.0	3.034	52.0	3.627	32.0	4.765	12.0	8.586
91.5	2.664	71.5	3.045	51.5	3.647	31.5	4.810	11.5	8.838
91.0	2.672	71.0	3.057	51.0	3.666	31.0	4.854	11.0	9.091
90.5	2.680	70.5	3.068	50.5	3.686	30.5	4.899	10.5	9.343
90.0	2.688	70.0	3.080	50.0	3.706	30.0	4.943		
89.5	2.696	69.5	3.092	49.5	3.727	29.5	4.994		
89.0	2.704	69.0	3.105	49.0	3.749	29.0	5.045		
88.5	2.713	68.5	3.117	48.5	3.770	28.5	5.095		
88.0	2.721	68.0	3.130	48.0	3.792	28.0	5.146		
87.5	2.729	67.5	3.142	47.5	3.813	27.5	5.197		
87.0	2.738	67.0	3.155	47.0	3.836	27.0	5.256		
86.5	2.746	66.5	3.168	46.5	3.860	26.5	5.315		
86.0	2.755	66.0	3.181	46.0	3.883	26.0	5.374		
85.5	2.763	65.5	3.194	45.5	3.907	25.5	5.433		
85.0	2.772	65.0	3.207	45.0	3.930	25.0	5.492		
84.5	2.781	64.5	3.221	44.5	3.955	24.5	5.562		
84.0	2.790	64.0	3.235	44.0	3.981	24.0	5.632		
83.5	2.799	63.5	3.249	43.5	4.006	23.5	5.701		
83.0	2.808	63.0	3.263	43.0	4.032	23.0	5.771		
82.5	2.817	62.5	3.277	42.5	4.057	22.5	5.841		
82.0	2.826	62.0	3.292	42.0	4.085	22.0	5.925		
81.5	2.836	61.5	3.307	41.5	4.113	21.5	6.009		
81.0	2.845	61.0	3.321	41.0	4.142	21.0	6.094		
80.5	2.855	60.5	3.336	40.5	4.170	20.5	6.178		

Radius vs. Mobility

Temperature: 15° C

M. $\cdot 10^6$	r. $\cdot 10^6$								
100°0	9°596	80°0	11°10	60°0	13°47	40°0	17°97	20°0	30°70
99°5	9°627	79°5	11°15	59°5	13°55	39°5	18°14	19°5	31°41
99°0	9°659	79°0	11°19	59°0	13°63	39°0	18°32	19°0	32°12
98°5	9°690	78°5	11°24	58°5	13°71	38°5	18°49	18°5	32°82
98°0	9°722	78°0	11°28	58°0	13°79	38°0	18°67	18°0	33°53
97°5	9°753	77°5	11°33	57°5	13°87	37°5	18°84	17°5	34°24
97°0	9°786	77°0	11°38	57°0	13°96	37°0	19°04	17°0	35°18
96°5	9°819	76°5	11°43	56°5	14°05	36°5	19°24	16°5	36°12
96°0	9°852	76°0	11°48	56°0	14°13	36°0	19°43	16°0	37°06
95°5	9°885	75°5	11°53	55°5	14°22	35°5	19°63	15°5	38°00
95°0	9°918	75°0	11°58	55°0	14°31	35°0	19°83	15°0	38°94
94°5	9°952	74°5	11°63	54°5	14°40	34°5	20°06	14°5	40°25
94°0	9°987	74°0	11°69	54°0	14°50	34°0	20°29	14°0	41°55
93°5	10°02	73°5	11°74	53°5	14°59	33°5	20°51	13°5	42°86
93°0	10°06	73°0	11°80	53°0	14°69	33°0	20°74	13°0	44°16
92°5	10°09	72°5	11°85	52°5	14°78	32°5	20°97	12°5	45°47
92°0	10°13	72°0	11°91	52°0	14°88	32°0	21°23	12°0	47°42
91°5	10°16	71°5	11°96	51°5	14°99	31°5	21°50	11°5	49°36
91°0	10°20	71°0	12°02	51°0	15°09	31°0	21°76	11°0	51°31
90°5	10°23	70°5	12°07	50°5	15°20	30°5	22°03	10°5	53°25
90°0	10°27	70°0	12°13	50°0	15°30	30°0	22°29		
89°5	10°31	69°5	12°19	49°5	15°41	29°5	22°60		
89°0	10°35	69°0	12°25	49°0	15°53	29°0	22°91		
88°5	10°38	68°5	12°31	48°5	15°64	28°5	23°22		
88°0	10°42	68°0	12°37	48°0	15°76	28°0	23°53		
87°5	10°46	67°5	12°43	47°5	15°87	27°5	23°84		
87°0	10°50	67°0	12°49	47°0	15°99	27°0	24°21		
86°5	10°54	66°5	12°56	46°5	16°12	26°5	24°58		
86°0	10°58	66°0	12°62	46°0	16°24	26°0	24°94		
85°5	10°62	65°5	12°69	45°5	16°37	25°5	25°31		
85°0	10°66	65°0	12°75	45°0	16°49	25°0	25°68		
84°5	10°70	64°5	12°82	44°5	16°63	24°5	26°13		
84°0	10°74	64°0	12°89	44°0	16°77	24°0	26°58		
83°5	10°79	63°5	12°96	43°5	16°91	23°5	27°02		
83°0	10°83	63°0	13°03	43°0	17°05	23°0	27°47		
82°5	10°87	62°5	13°10	42°5	17°19	22°5	27°92		
82°0	10°92	62°0	13°17	42°0	17°35	22°0	28°48		
81°5	10°96	61°5	13°25	41°5	17°50	21°5	29°03		
81°0	11°01	61°0	13°32	41°0	17°66	21°0	29°59		
80°5	11°05	60°5	13°40	40°5	17°81	20°5	30°14		

Radius vs. Mobility

Temperature: 15° C

M. 10^7	r. 10^6
100.0	55.20
99.5	55.45
99.0	55.70
98.5	55.95
98.0	56.20
97.5	56.45
97.0	56.71
96.5	56.97
96.0	57.23
95.5	57.49
95.0	57.75
94.5	58.03
94.0	58.30
93.5	58.58
93.0	58.85
92.5	59.13
92.0	59.42
91.5	59.71
91.0	60.00
90.5	60.29
90.0	60.58
89.5	60.89
89.0	61.20
88.5	61.50
88.0	61.81
87.5	62.12
87.0	62.44
86.5	62.77
86.0	63.09
85.5	63.42
85.0	63.74
84.5	64.08
84.0	64.43
83.5	64.77
83.0	65.12
82.5	65.46
82.0	65.83
81.5	66.19
81.0	66.56
80.5	66.92

M. 10^7	r. 10^6
80.0	67.29
79.5	67.68
79.0	68.07
78.5	68.45
78.0	68.84
77.5	69.23
77.0	69.65
76.5	70.06
76.0	70.48
75.5	70.89
75.0	71.31
74.5	71.75
74.0	72.19
73.5	72.64
73.0	73.08
72.5	73.52
72.0	73.99
71.5	74.47
71.0	74.94
70.5	75.42
70.0	75.89
69.5	76.40
69.0	76.91
68.5	77.42
68.0	77.93
67.5	78.44
67.0	78.99
66.5	79.53
66.0	80.08
65.5	80.62
65.0	81.17
64.5	81.76
64.0	82.35
63.5	82.95
63.0	83.54
62.5	84.13
62.0	84.77
61.5	85.41
61.0	86.05
60.5	86.69

M. 10^7	r. 10^6
60.0	87.33
59.5	88.03
59.0	88.72
58.5	89.42
58.0	90.11
57.5	90.81
57.0	91.57
56.5	92.33
56.0	93.08
55.5	93.84
55.0	94.60
54.5	95.43
54.0	96.26
53.5	97.08
53.0	97.91
52.5	98.74
52.0	99.65
51.5	100.56
51.0	101.48
50.5	102.39
50.0	103.30

Radius versus Mobility

20 °C

$$M = \frac{4.80288 \times 10^{-10}}{5654.8667754 \eta r} \left[1 + \frac{L}{r} (0.864 + 0.290 e^{-\frac{1.25r}{L}}) \right]$$

$$L = 10.46 \times 10^{-6} \text{ cm}, \quad \eta = 1.81 \times 10^{-4} \text{ g cm}^{-1} \text{ sec}^{-1}$$

Radius vs. Mobility

Temperature: 20° C

M. 10^3	r. 10^6								
100°0	2395	80°0	2680	60°0	3098	40°0	3801	20°0	5398
99°5	2401	79°5	2689	59°5	3111	39°5	3826	19°5	5474
99°0	2407	79°0	2697	59°0	3125	39°0	3851	19°0	5550
98°5	2414	78°5	2706	58°5	3138	38°5	3877	18°5	5625
98°0	2420	78°0	2714	58°0	3152	38°0	3902	18°0	5701
97°5	2426	77°5	2723	57°5	3165	37°5	3927	17°5	5777
97°0	2432	77°0	2732	57°0	3179	37°0	3955	17°0	5871
96°5	2439	76°5	2741	56°5	3194	36°5	3983	16°5	5965
96°0	2445	76°0	2750	56°0	3208	36°0	4010	16°0	6060
95°5	2452	75°5	2759	55°5	3223	35°5	4038	15°5	6154
95°0	2458	75°0	2768	55°0	3237	35°0	4066	15°0	6248
94°5	2465	74°5	2778	54°5	3252	34°5	4097	14°5	6369
94°0	2471	74°0	2787	54°0	3268	34°0	4128	14°0	6491
93°5	2478	73°5	2797	53°5	3283	33°5	4160	13°5	6612
93°0	2484	73°0	2806	53°0	3299	33°0	4191	13°0	6734
92°5	2491	72°5	2816	52°5	3314	32°5	4222	12°5	6855
92°0	2498	72°0	2826	52°0	3330	32°0	4257	12°0	7020
91°5	2505	71°5	2836	51°5	3347	31°5	4292	11°5	7185
91°0	2512	71°0	2846	51°0	3363	31°0	4326	11°0	7351
90°5	2519	70°5	2856	50°5	3380	30°5	4361	10°5	7516
90°0	2526	70°0	2866	50°0	3396	30°0	4396		
89°5	2533	69°5	2877	49°5	3414	29°5	4436		
89°0	2540	69°0	2887	49°0	3432	29°0	4475		
88°5	2548	68°5	2898	48°5	3449	28°5	4515		
88°0	2555	68°0	2908	48°0	3467	28°0	4554		
87°5	2562	67°5	2919	47°5	3485	27°5	4594		
87°0	2569	67°0	2930	47°0	3504	27°0	4639		
86°5	2577	66°5	2941	46°5	3524	26°5	4685		
86°0	2584	66°0	2953	46°0	3543	26°0	4730		
85°5	2592	65°5	2964	45°5	3563	25°5	4776		
85°0	2599	65°0	2975	45°0	3582	25°0	4821		
84°5	2607	64°5	2987	44°5	3603	24°5	4874		
84°0	2615	64°0	2999	44°0	3624	24°0	4927		
83°5	2623	63°5	3011	43°5	3644	23°5	4979		
83°0	2631	63°0	3023	43°0	3665	23°0	5032		
82°5	2639	62°5	3035	42°5	3686	22°5	5085		
82°0	2647	62°0	3048	42°0	3709	22°0	5148		
81°5	2655	61°5	3060	41°5	3732	21°5	5210		
81°0	2664	61°0	3073	41°0	3755	21°0	5273		
80°5	2672	60°5	3085	40°5	3778	20°5	5335		

Radius vs. Mobility

Temperature: 20° C

M. 10^4	r. 10^6								
100.0	7681	80.0	8609	60.0	9977	40.0	1.229	20.0	1.764
99.5	7701	79.5	8637	59.5	1.002	39.5	1.237	19.5	1.790
99.0	7721	79.0	8665	59.0	1.007	39.0	1.246	19.0	1.815
98.5	7741	78.5	8694	58.5	1.011	38.5	1.254	18.5	1.841
98.0	7761	78.0	8722	58.0	1.016	38.0	1.263	18.0	1.866
97.5	7781	77.5	8750	57.5	1.020	37.5	1.271	17.5	1.892
97.0	7802	77.0	8780	57.0	1.025	37.0	1.280	17.0	1.924
96.5	7823	76.5	8809	56.5	1.029	36.5	1.289	16.5	1.956
96.0	7843	76.0	8839	56.0	1.034	36.0	1.299	16.0	1.988
95.5	7864	75.5	8868	55.5	1.038	35.5	1.308	15.5	2.020
95.0	7885	75.0	8898	55.0	1.043	35.0	1.317	15.0	2.052
94.5	7907	74.5	8929	54.5	1.048	34.5	1.327	14.5	2.094
94.0	7928	74.0	8960	54.0	1.053	34.0	1.338	14.0	2.136
93.5	7950	73.5	8992	53.5	1.059	33.5	1.348	13.5	2.177
93.0	7971	73.0	9023	53.0	1.064	33.0	1.359	13.0	2.219
92.5	7993	72.5	9054	52.5	1.069	32.5	1.369	12.5	2.261
92.0	8016	72.0	9087	52.0	1.074	32.0	1.381	12.0	2.318
91.5	8038	71.5	9120	51.5	1.080	31.5	1.392	11.5	2.375
91.0	8061	71.0	9152	51.0	1.085	31.0	1.404	11.0	2.433
90.5	8083	70.5	9185	50.5	1.091	30.5	1.415	10.5	2.490
90.0	8106	70.0	9218	50.0	1.096	30.0	1.427		
89.5	8129	69.5	9253	49.5	1.102	29.5	1.440		
89.0	8153	69.0	9288	49.0	1.108	29.0	1.453		
88.5	8176	68.5	9322	48.5	1.113	28.5	1.467		
88.0	8200	68.0	9357	48.0	1.119	28.0	1.480		
87.5	8223	67.5	9392	47.5	1.125	27.5	1.493		
87.0	8248	67.0	9429	47.0	1.131	27.0	1.508		
86.5	8272	66.5	9465	46.5	1.138	26.5	1.523		
86.0	8297	66.0	9502	46.0	1.144	26.0	1.539		
85.5	8321	65.5	9538	45.5	1.151	25.5	1.554		
85.0	8346	65.0	9575	45.0	1.157	25.0	1.569		
84.5	8372	64.5	9614	44.5	1.164	24.5	1.587		
84.0	8397	64.0	9653	44.0	1.171	24.0	1.605		
83.5	8423	63.5	9692	43.5	1.178	23.5	1.622		
83.0	8448	63.0	9731	43.0	1.185	23.0	1.640		
82.5	8474	62.5	9770	42.5	1.192	22.5	1.658		
82.0	8501	62.0	9811	42.0	1.199	22.0	1.679		
81.5	8528	61.5	9853	41.5	1.207	21.5	1.700		
81.0	8555	61.0	9894	41.0	1.214	21.0	1.722		
80.5	8582	60.5	9936	40.5	1.222	20.5	1.743		

Radius vs. Mobility

Temperature: 20° C

M. 10^5	r. 10^6								
100°0	2°547	80°0	2°872	60°0	3°359	40°0	4°206	20°0	6°267
99°5	2°554	79°5	2°882	59°5	3°375	39°5	4°237	19°5	6°371
99°0	2°561	79°0	2°892	59°0	3°391	39°0	4°268	19°0	6°474
98°5	2°568	78°5	2°902	58°5	3°406	38°5	4°299	18°5	6°578
98°0	2°575	78°0	2°912	58°0	3°422	38°0	4°330	18°0	6°681
97°5	2°582	77°5	2°922	57°5	3°438	37°5	4°361	17°5	6°785
97°0	2°589	77°0	2°932	57°0	3°455	37°0	4°396	17°0	6°918
96°5	2°596	76°5	2°943	56°5	3°472	36°5	4°430	16°5	7°050
96°0	2°604	76°0	2°953	56°0	3°490	36°0	4°465	16°0	7°183
95°5	2°611	75°5	2°964	55°5	3°507	35°5	4°499	15°5	7°315
95°0	2°618	75°0	2°974	55°0	3°524	35°0	4°534	15°0	7°448
94°5	2°626	74°5	2°985	54°5	3°542	34°5	4°573	14°5	7°625
94°0	2°633	74°0	2°996	54°0	3°560	34°0	4°612	14°0	7°801
93°5	2°641	73°5	3°007	53°5	3°579	33°5	4°651	13°5	7°978
93°0	2°648	73°0	3°018	53°0	3°597	33°0	4°690	13°0	8°154
92°5	2°656	72°5	3°029	52°5	3°615	32°5	4°729	12°5	8°331
92°0	2°664	72°0	3°041	52°0	3°635	32°0	4°773	12°0	8°582
91°5	2°672	71°5	3°053	51°5	3°655	31°5	4°817	11°5	8°834
91°0	2°679	71°0	3°064	51°0	3°674	31°0	4°862	11°0	9°085
90°5	2°687	70°5	3°076	50°5	3°694	30°5	4°906	10°5	9°337
90°0	2°695	70°0	3°088	50°0	3°714	30°0	4°950		
89°5	2°703	69°5	3°100	49°5	3°735	29°5	5°001		
89°0	2°711	69°0	3°113	49°0	3°757	29°0	5°052		
88°5	2°720	68°5	3°125	48°5	3°778	28°5	5°102		
88°0	2°728	68°0	3°138	48°0	3°800	28°0	5°153		
87°5	2°736	67°5	3°150	47°5	3°821	27°5	5°204		
87°0	2°745	67°0	3°163	47°0	3°844	27°0	5°263		
86°5	2°753	66°5	3°176	46°5	3°868	26°5	5°322		
86°0	2°762	66°0	3°189	46°0	3°891	26°0	5°381		
85°5	2°770	65°5	3°202	45°5	3°915	25°5	5°440		
85°0	2°779	65°0	3°215	45°0	3°938	25°0	5°499		
84°5	2°788	64°5	3°229	44°5	3°963	24°5	5°569		
84°0	2°797	64°0	3°243	44°0	3°989	24°0	5°638		
83°5	2°807	63°5	3°257	43°5	4°014	23°5	5°708		
83°0	2°816	63°0	3°271	43°0	4°040	23°0	5°777		
82°5	2°825	62°5	3°285	42°5	4°065	22°5	5°847		
82°0	2°834	62°0	3°300	42°0	4°093	22°0	5°931		
81°5	2°844	61°5	3°315	41°5	4°121	21°5	6°015		
81°0	2°853	61°0	3°329	41°0	4°150	21°0	6°099		
80°5	2°863	60°5	3°344	40°5	4°178	20°5	6°183		

Radius vs. Mobility

Temperature: 20° C

M. 10^6	r. 10^6								
100.0	9.588	80.0	11.08	60.0	13.44	40.0	17.89	20.0	30.48
99.5	9.619	79.5	11.13	59.5	13.52	39.5	18.06	19.5	31.18
99.0	9.650	79.0	11.17	59.0	13.60	39.0	18.24	19.0	31.88
98.5	9.682	78.5	11.22	58.5	13.67	38.5	18.41	18.5	32.59
98.0	9.713	78.0	11.26	58.0	13.75	38.0	18.59	18.0	33.29
97.5	9.744	77.5	11.31	57.5	13.83	37.5	18.76	17.5	33.99
97.0	9.777	77.0	11.36	57.0	13.92	37.0	18.96	17.0	34.92
96.5	9.810	76.5	11.41	56.5	14.01	36.5	19.15	16.5	35.85
96.0	9.842	76.0	11.46	56.0	14.09	36.0	19.35	16.0	36.77
95.5	9.875	75.5	11.51	55.5	14.18	35.5	19.54	15.5	37.70
95.0	9.908	75.0	11.56	55.0	14.27	35.0	19.74	15.0	38.63
94.5	9.942	74.5	11.61	54.5	14.36	34.5	19.97	14.5	39.92
94.0	9.977	74.0	11.66	54.0	14.46	34.0	20.19	14.0	41.21
93.5	10.01	73.5	11.72	53.5	14.55	33.5	20.42	13.5	42.50
93.0	10.05	73.0	11.77	53.0	14.65	33.0	20.64	13.0	43.79
92.5	10.08	72.5	11.82	52.5	14.74	32.5	20.87	12.5	45.08
92.0	10.12	72.0	11.88	52.0	14.84	32.0	21.13	12.0	47.00
91.5	10.15	71.5	11.93	51.5	14.94	31.5	21.39	11.5	48.92
91.0	10.19	71.0	11.99	51.0	15.05	31.0	21.65	11.0	50.84
90.5	10.22	70.5	12.04	50.5	15.15	30.5	21.91	10.5	52.76
90.0	10.26	70.0	12.10	50.0	15.25	30.0	22.17		
89.5	10.30	69.5	12.16	49.5	15.36	29.5	22.48		
89.0	10.34	69.0	12.22	49.0	15.47	29.0	22.78		
88.5	10.37	68.5	12.28	48.5	15.59	28.5	23.09		
88.0	10.41	68.0	12.34	48.0	15.70	28.0	23.39		
87.5	10.45	67.5	12.40	47.5	15.81	27.5	23.70		
87.0	10.49	67.0	12.46	47.0	15.93	27.0	24.06		
86.5	10.53	66.5	12.53	46.5	16.06	26.5	24.43		
86.0	10.57	66.0	12.59	46.0	16.18	26.0	24.79		
85.5	10.61	65.5	12.66	45.5	16.31	25.5	25.16		
85.0	10.65	65.0	12.72	45.0	16.43	25.0	25.52		
84.5	10.69	64.5	12.79	44.5	16.57	24.5	25.96		
84.0	10.73	64.0	12.86	44.0	16.71	24.0	26.40		
83.5	10.78	63.5	12.93	43.5	16.84	23.5	26.85		
83.0	10.82	63.0	13.00	43.0	16.98	23.0	27.29		
82.5	10.86	62.5	13.07	42.5	17.12	22.5	27.73		
82.0	10.90	62.0	13.14	42.0	17.27	22.0	28.28		
81.5	10.95	61.5	13.22	41.5	17.43	21.5	28.83		
81.0	10.99	61.0	13.29	41.0	17.58	21.0	29.38		
80.5	11.04	60.5	13.37	40.5	17.74	20.5	29.93		

Radius vs. Mobility

Temperature: 20° C

M. 10^7	r. 10^6	M. 10^7	r. 10^6	M. 10^7	r. 10^6
100.0	54.68	80.0	66.61	60.0	86.39
99.5	54.93	79.5	66.99	59.5	87.08
99.0	55.17	79.0	67.38	59.0	87.76
98.5	55.42	78.5	67.76	58.5	88.45
98.0	55.66	78.0	68.15	58.0	89.13
97.5	55.91	77.5	68.53	57.5	89.82
97.0	56.17	77.0	68.94	57.0	90.57
96.5	56.43	76.5	69.35	56.5	91.32
96.0	56.68	76.0	69.76	56.0	92.06
95.5	56.94	75.5	70.17	55.5	92.81
95.0	57.20	75.0	70.58	55.0	93.56
94.5	57.47	74.5	71.02	54.5	94.38
94.0	57.74	74.0	71.45	54.0	95.20
93.5	58.02	73.5	71.89	53.5	96.01
93.0	58.29	73.0	72.32	53.0	96.83
92.5	58.56	72.5	72.76	52.5	97.65
92.0	58.85	72.0	73.23	52.0	98.55
91.5	59.13	71.5	73.70	51.5	99.45
91.0	59.42	71.0	74.16	51.0	100.35
90.5	59.70	70.5	74.63	50.5	101.25
90.0	59.99	70.0	75.10	50.0	102.15
89.5	60.29	69.5	75.60		
89.0	60.60	69.0	76.10		
88.5	60.90	68.5	76.61		
88.0	61.21	68.0	77.11		
87.5	61.51	67.5	77.61		
87.0	61.83	67.0	78.15		
86.5	62.15	66.5	78.69		
86.0	62.47	66.0	79.24		
85.5	62.79	65.5	79.78		
85.0	63.11	65.0	80.32		
84.5	63.45	64.5	80.90		
84.0	63.79	64.0	81.48		
83.5	64.13	63.5	82.07		
83.0	64.47	63.0	82.65		
82.5	64.81	62.5	83.23		
82.0	65.17	62.0	83.86		
81.5	65.53	61.5	84.49		
81.0	65.89	61.0	85.13		
80.5	66.25	60.5	85.76		

Radius versus Mobility

25 °C

$$M = \frac{4.80288 \times 10^{-10}}{5654.8667754 \eta r} \left[1 + \frac{L}{r} (0.864 + 0.290 e^{-\frac{1.25r}{L}}) \right]$$

$$L = 10.70 \times 10^{-6} \text{ cm}, \quad \eta = 1.835 \times 10^{-4} \text{ g cm}^{-1} \text{ sec}^{-1}$$

Radius vs. Mobility

Temperature: 25° C

M. $\cdot 10^3$	r. $\cdot 10^6$								
100°0	2406	80°0	2692	60°0	3111	40°0	3817	20°0	5421
99°5	2412	79°5	2701	59°5	3125	39°5	3842	19°5	5497
99°0	2418	79°0	2709	59°0	3138	39°0	3868	19°0	5573
98°5	2424	78°5	2718	58°5	3152	38°5	3893	18°5	5649
98°0	2430	78°0	2726	58°0	3165	38°0	3919	18°0	5725
97°5	2436	77°5	2735	57°5	3179	37°5	3944	17°5	5801
97°0	2442	77°0	2744	57°0	3193	37°0	3972	17°0	5896
96°5	2449	76°5	2753	56°5	3208	36°5	4000	16°5	5990
96°0	2455	76°0	2762	56°0	3222	36°0	4028	16°0	6085
95°5	2462	75°5	2771	55°5	3237	35°5	4056	15°5	6179
95°0	2468	75°0	2780	55°0	3251	35°0	4084	15°0	6274
94°5	2475	74°5	2790	54°5	3266	34°5	4115	14°5	6396
94°0	2482	74°0	2799	54°0	3282	34°0	4146	14°0	6518
93°5	2488	73°5	2809	53°5	3297	33°5	4178	13°5	6640
93°0	2495	73°0	2818	53°0	3313	33°0	4209	13°0	6762
92°5	2502	72°5	2828	52°5	3328	32°5	4240	12°5	6884
92°0	2509	72°0	2838	52°0	3345	32°0	4275	12°0	7050
91°5	2516	71°5	2848	51°5	3361	31°5	4310	11°5	7216
91°0	2523	71°0	2859	51°0	3378	31°0	4345	11°0	7381
90°5	2530	70°5	2869	50°5	3394	30°5	4380	10°5	7547
90°0	2537	70°0	2879	50°0	3411	30°0	4415		
89°5	2544	69°5	2890	49°5	3429	29°5	4455		
89°0	2551	69°0	2900	49°0	3447	29°0	4495		
88°5	2559	68°5	2911	48°5	3464	28°5	4534		
88°0	2566	68°0	2921	48°0	3482	28°0	4574		
87°5	2573	67°5	2932	47°5	3500	27°5	4614		
87°0	2581	67°0	2943	47°0	3519	27°0	4660		
86°5	2588	66°5	2954	46°5	3539	26°5	4705		
86°0	2596	66°0	2966	46°0	3558	26°0	4751		
85°5	2603	65°5	2977	45°5	3578	25°5	4796		
85°0	2611	65°0	2988	45°0	3597	25°0	4842		
84°5	2619	64°5	3000	44°5	3618	24°5	4895		
84°0	2627	64°0	3012	44°0	3639	24°0	4948		
83°5	2634	63°5	3024	43°5	3660	23°5	5001		
83°0	2642	63°0	3036	43°0	3681	23°0	5054		
82°5	2650	62°5	3048	42°5	3702	22°5	5107		
82°0	2658	62°0	3061	42°0	3725	22°0	5170		
81°5	2667	61°5	3073	41°5	3748	21°5	5233		
81°0	2675	61°0	3086	41°0	3771	21°0	5295		
80°5	2684	60°5	3098	40°5	3794	20°5	5358		

Radius vs. Mobility

Temperature: 25° C

M. 10^4	r. 10^6								
100°0	7713	80°0	8644	60°0	1°002	40°0	1°234	20°0	1°770
99°5	7733	79°5	8672	59°5	1°006	39°5	1°242	19°5	1°796
99°0	7753	79°0	8700	59°0	1°011	39°0	1°251	19°0	1°822
98°5	7773	78°5	8729	58°5	1°015	38°5	1°259	18°5	1°847
98°0	7793	78°0	8757	58°0	1°020	38°0	1°268	18°0	1°873
97°5	7813	77°5	8785	57°5	1°024	37°5	1°276	17°5	1°899
97°0	7834	77°0	8815	57°0	1°029	37°0	1°285	17°0	1°931
96°5	7855	76°5	8845	56°5	1°033	36°5	1°295	16°5	1°963
96°0	7875	76°0	8874	56°0	1°038	36°0	1°304	16°0	1°995
95°5	7896	75°5	8904	55°5	1°042	35°5	1°314	15°5	2°027
95°0	7917	75°0	8934	55°0	1°047	35°0	1°323	15°0	2°059
94°5	7939	74°5	8965	54°5	1°052	34°5	1°333	14°5	2°101
94°0	7961	74°0	8997	54°0	1°057	34°0	1°343	14°0	2°143
93°5	7982	73°5	9028	53°5	1°063	33°5	1°354	13°5	2°184
93°0	8004	73°0	9060	53°0	1°068	33°0	1°364	13°0	2°226
92°5	8026	72°5	9091	52°5	1°073	32°5	1°374	12°5	2°268
92°0	8049	72°0	9124	52°0	1°078	32°0	1°386	12°0	2°325
91°5	8071	71°5	9157	51°5	1°084	31°5	1°398	11°5	2°383
91°0	8094	71°0	9189	51°0	1°089	31°0	1°409	11°0	2°440
90°5	8116	70°5	9222	50°5	1°095	30°5	1°421	10°5	2°498
90°0	8139	70°0	9255	50°0	1°100	30°0	1°433		
89°5	8163	69°5	9290	49°5	1°106	29°5	1°446		
89°0	8186	69°0	9325	49°0	1°112	29°0	1°459		
88°5	8210	68°5	9360	48°5	1°118	28°5	1°473		
88°0	8233	68°0	9395	48°0	1°124	28°0	1°486		
87°5	8257	67°5	9430	47°5	1°130	27°5	1°499		
87°0	8282	67°0	9467	47°0	1°136	27°0	1°514		
86°5	8306	66°5	9504	46°5	1°142	26°5	1°529		
86°0	8331	66°0	9540	46°0	1°149	26°0	1°545		
85°5	8355	65°5	9577	45°5	1°155	25°5	1°560		
85°0	8380	65°0	9614	45°0	1°161	25°0	1°575		
84°5	8406	64°5	9653	44°5	1°168	24°5	1°593		
84°0	8432	64°0	9692	44°0	1°175	24°0	1°611		
83°5	8457	63°5	9731	43°5	1°182	23°5	1°628		
83°0	8483	63°0	9770	43°0	1°189	23°0	1°646		
82°5	8509	62°5	9809	42°5	1°196	22°5	1°664		
82°0	8536	62°0	9851	42°0	1°204	22°0	1°685		
81°5	8563	61°5	9893	41°5	1°211	21°5	1°706		
81°0	8590	61°0	9936	41°0	1°219	21°0	1°728		
80°5	8617	60°5	9978	40°5	1°226	20°5	1°749		

Radius vs. Mobility

Temperature: 25° C

M. 10^5	r. 10^6								
100.0	2.555	80.0	2.881	60.0	3.368	40.0	4.215	20.0	6.274
99.5	2.562	79.5	2.891	59.5	3.384	39.5	4.246	19.5	6.378
99.0	2.569	79.0	2.901	59.0	3.400	39.0	4.277	19.0	6.481
98.5	2.576	78.5	2.910	58.5	3.416	38.5	4.309	18.5	6.585
98.0	2.583	78.0	2.920	58.0	3.432	38.0	4.340	18.0	6.688
97.5	2.590	77.5	2.930	57.5	3.448	37.5	4.371	17.5	6.792
97.0	2.597	77.0	2.941	57.0	3.465	37.0	4.406	17.0	6.924
96.5	2.604	76.5	2.951	56.5	3.482	36.5	4.440	16.5	7.056
96.0	2.612	76.0	2.962	56.0	3.499	36.0	4.475	16.0	7.188
95.5	2.619	75.5	2.972	55.5	3.516	35.5	4.509	15.5	7.320
95.0	2.626	75.0	2.983	55.0	3.533	35.0	4.544	15.0	7.452
94.5	2.634	74.5	2.994	54.5	3.551	34.5	4.583	14.5	7.628
94.0	2.641	74.0	3.005	54.0	3.570	34.0	4.622	14.0	7.804
93.5	2.649	73.5	3.016	53.5	3.588	33.5	4.661	13.5	7.980
93.0	2.656	73.0	3.027	53.0	3.607	33.0	4.700	13.0	8.156
92.5	2.664	72.5	3.038	52.5	3.625	32.5	4.739	12.5	8.332
92.0	2.672	72.0	3.050	52.0	3.645	32.0	4.783	12.0	8.582
91.5	2.680	71.5	3.062	51.5	3.664	31.5	4.827	11.5	8.832
91.0	2.687	71.0	3.073	51.0	3.684	31.0	4.872	11.0	9.083
90.5	2.695	70.5	3.085	50.5	3.703	30.5	4.916	10.5	9.333
90.0	2.703	70.0	3.097	50.0	3.723	30.0	4.960		
89.5	2.711	69.5	3.109	49.5	3.745	29.5	5.011		
89.0	2.720	69.0	3.122	49.0	3.766	29.0	5.061		
88.5	2.728	68.5	3.134	48.5	3.788	28.5	5.112		
88.0	2.737	68.0	3.147	48.0	3.809	28.0	5.162		
87.5	2.745	67.5	3.159	47.5	3.831	27.5	5.213		
87.0	2.754	67.0	3.172	47.0	3.854	27.0	5.272		
86.5	2.762	66.5	3.185	46.5	3.877	26.5	5.331		
86.0	2.771	66.0	3.198	46.0	3.901	26.0	5.389		
85.5	2.779	65.5	3.211	45.5	3.924	25.5	5.448		
85.0	2.788	65.0	3.224	45.0	3.947	25.0	5.507		
84.5	2.797	64.5	3.238	44.5	3.973	24.5	5.577		
84.0	2.806	64.0	3.252	44.0	3.998	24.0	5.646		
83.5	2.815	63.5	3.266	43.5	4.024	23.5	5.716		
83.0	2.824	63.0	3.280	43.0	4.049	23.0	5.785		
82.5	2.833	62.5	3.294	42.5	4.075	22.5	5.855		
82.0	2.843	62.0	3.309	42.0	4.103	22.0	5.939		
81.5	2.852	61.5	3.324	41.5	4.131	21.5	6.023		
81.0	2.862	61.0	3.338	41.0	4.159	21.0	6.106		
80.5	2.871	60.5	3.353	40.5	4.187	20.5	6.190		

Radius vs. Mobility

Temperature: 25° C

M. 10^6	r. 10^6								
100.0	9.583	80.0	11.07	60.0	13.41	40.0	17.82	20.0	30.28
99.5	9.614	79.5	11.12	59.5	13.49	39.5	17.99	19.5	30.97
99.0	9.645	79.0	11.16	59.0	13.57	39.0	18.16	19.0	31.66
98.5	9.677	78.5	11.21	58.5	13.64	38.5	18.34	18.5	32.36
98.0	9.708	78.0	11.25	58.0	13.72	38.0	18.51	18.0	33.05
97.5	9.739	77.5	11.30	57.5	13.80	37.5	18.68	17.5	33.74
97.0	9.771	77.0	11.35	57.0	13.89	37.0	18.87	17.0	34.66
96.5	9.804	76.5	11.40	56.5	13.97	36.5	19.07	16.5	35.58
96.0	9.836	76.0	11.44	56.0	14.06	36.0	19.26	16.0	36.49
95.5	9.869	75.5	11.49	55.5	14.14	35.5	19.46	15.5	37.41
95.0	9.901	75.0	11.54	55.0	14.23	35.0	19.65	15.0	38.33
94.5	9.935	74.5	11.59	54.5	14.32	34.5	19.87	14.5	39.60
94.0	9.969	74.0	11.65	54.0	14.42	34.0	20.10	14.0	40.88
93.5	10.00	73.5	11.70	53.5	14.51	33.5	20.32	13.5	42.15
93.0	10.04	73.0	11.76	53.0	14.61	33.0	20.55	13.0	43.43
92.5	10.07	72.5	11.81	52.5	14.70	32.5	20.77	12.5	44.70
92.0	10.11	72.0	11.86	52.0	14.80	32.0	21.03	12.0	46.60
91.5	10.14	71.5	11.92	51.5	14.90	31.5	21.29	11.5	48.50
91.0	10.18	71.0	11.97	51.0	15.01	31.0	21.54	11.0	50.39
90.5	10.21	70.5	12.03	50.5	15.11	30.5	21.80	10.5	52.29
90.0	10.25	70.0	12.08	50.0	15.21	30.0	22.06		
89.5	10.29	69.5	12.14	49.5	15.32	29.5	22.36		
89.0	10.33	69.0	12.20	49.0	15.43	29.0	22.66		
88.5	10.36	68.5	12.26	48.5	15.54	28.5	22.97		
88.0	10.40	68.0	12.32	48.0	15.65	28.0	23.27		
87.5	10.44	67.5	12.38	47.5	15.76	27.5	23.57		
87.0	10.48	67.0	12.44	47.0	15.88	27.0	23.93		
86.5	10.52	66.5	12.51	46.5	16.01	26.5	24.29		
86.0	10.56	66.0	12.57	46.0	16.13	26.0	24.66		
85.5	10.60	65.5	12.64	45.5	16.26	25.5	25.02		
85.0	10.64	65.0	12.70	45.0	16.38	25.0	25.38		
84.5	10.68	64.5	12.77	44.5	16.52	24.5	25.82		
84.0	10.72	64.0	12.84	44.0	16.65	24.0	26.25		
83.5	10.77	63.5	12.90	43.5	16.79	23.5	26.69		
83.0	10.81	63.0	12.97	43.0	16.92	23.0	27.12		
82.5	10.85	62.5	13.04	42.5	17.06	22.5	27.56		
82.0	10.89	62.0	13.11	42.0	17.21	22.0	28.10		
81.5	10.94	61.5	13.19	41.5	17.36	21.5	28.65		
81.0	10.98	61.0	13.26	41.0	17.52	21.0	29.19		
80.5	11.03	60.5	13.34	40.5	17.67	20.5	29.74		

Radius vs. Mobility

Temperature: 25° C

M. 10^7	r. 10^6	M. 10^7	r. 10^6	M. 10^7	r. 10^6
100.0	54.19	80.0	65.97	60.0	85.48
99.5	54.43	79.5	66.35	59.5	86.16
99.0	54.67	79.0	66.73	59.0	86.84
98.5	54.92	78.5	67.10	58.5	87.51
98.0	55.16	78.0	67.48	58.0	88.19
97.5	55.40	77.5	67.86	57.5	88.87
97.0	55.65	77.0	68.26	57.0	89.61
96.5	55.91	76.5	68.67	56.5	90.35
96.0	56.16	76.0	69.07	56.0	91.08
95.5	56.42	75.5	69.48	55.5	91.82
95.0	56.67	75.0	69.88	55.0	92.56
94.5	56.94	74.5	70.31	54.5	93.37
94.0	57.21	74.0	70.74	54.0	94.18
93.5	57.47	73.5	71.18	53.5	94.98
93.0	57.74	73.0	71.61	53.0	95.79
92.5	58.01	72.5	72.04	52.5	96.60
92.0	58.29	72.0	72.50	52.0	97.49
91.5	58.58	71.5	72.96	51.5	98.38
91.0	58.86	71.0	73.42	51.0	99.26
90.5	59.15	70.5	73.88	50.5	100.15
90.0	59.43	70.0	74.34	50.0	101.04
89.5	59.73	69.5	74.84		
89.0	60.03	69.0	75.33		
88.5	60.33	68.5	75.83		
88.0	60.63	68.0	76.32		
87.5	60.93	67.5	76.82		
87.0	61.25	67.0	77.35		
86.5	61.56	66.5	77.89		
86.0	61.88	66.0	78.42		
85.5	62.19	65.5	78.96		
85.0	62.51	65.0	79.49		
84.5	62.85	64.5	80.07		
84.0	63.18	64.0	80.64		
83.5	63.52	63.5	81.22		
83.0	63.85	63.0	81.79		
82.5	64.19	62.5	82.37		
82.0	64.55	62.0	82.99		
81.5	64.90	61.5	83.61		
81.0	65.26	61.0	84.24		
80.5	65.61	60.5	84.86		





