

APPENDIX A. Properties of Coexisting Liquid and Vapor  
Along the Saturation Line

TEMP [K]	DENSITY [kg/m <sup>3</sup> ]	PRESSURE [MPa]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C <sub>v</sub> [J/g·K]	C <sub>p</sub> [J/g·K]	VSOUND [m/s]
0.8000	145.2	0.1475E-05	0.1866E-02	0.1877E-02	0.4713E-02	0.2241E-01	0.2242E-01	237.8
0.8000	0.8882E-03	0.1475E-05	17.76	19.42	23.94	3.125	5.210	52.61
0.8500	145.2	0.2914E-05	0.3255E-02	0.3275E-02	0.6392E-02	0.3376E-01	0.3377E-01	238.0
0.8500	0.1652E-02	0.2914E-05	17.92	19.68	22.84	3.129	5.218	54.21
0.9000	145.2	0.5379E-05	0.5319E-02	0.5356E-02	0.8748E-02	0.4965E-01	0.4966E-01	238.1
0.9000	0.2881E-02	0.5379E-05	18.07	18.94	21.86	3.135	5.230	55.77
0.9500	145.2	0.9379E-05	0.8317E-02	0.8381E-02	0.1198E-01	0.7133E-01	0.7133E-01	238.2
0.9500	0.4762E-02	0.9379E-05	18.22	20.19	20.98	3.143	5.244	57.27
1.000	145.2	0.1557E-04	0.1257E-01	0.1268E-01	0.1634E-01	0.1002	0.1002	238.2
1.000	0.7516E-02	0.1557E-04	18.37	20.44	20.19	3.152	5.262	58.73
1.050	145.2	0.2478E-04	0.1848E-01	0.1865E-01	0.2210E-01	0.1376	0.1376	238.2
1.050	0.1140E-01	0.2478E-04	18.52	20.70	19.47	3.162	5.282	60.14
1.100	145.2	0.3800E-04	0.2650E-01	0.2676E-01	0.2956E-01	0.1852	0.1852	238.1
1.100	0.1671E-01	0.3800E-04	18.67	20.85	18.82	3.174	5.305	61.52
1.150	145.2	0.5645E-04	0.3720E-01	0.3759E-01	0.3905E-01	0.2447	0.2447	237.9
1.150	0.2377E-01	0.5645E-04	18.82	21.19	18.22	3.187	5.331	62.85
1.200	145.2	0.8148E-04	0.5120E-01	0.5176E-01	0.5096E-01	0.3176	0.3176	237.7
1.200	0.3292E-01	0.8148E-04	18.96	21.44	17.67	3.202	5.360	64.14
1.250	145.2	0.1147E-03	0.6922E-01	0.7001E-01	0.6566E-01	0.4058	0.4058	237.4
1.250	0.4456E-01	0.1147E-03	19.11	21.68	17.17	3.217	5.391	65.39
1.300	145.2	0.1579E-03	0.9206E-01	0.9315E-01	0.8357E-01	0.5110	0.5111	237.1
1.300	0.5906E-01	0.1579E-03	19.25	21.92	16.70	3.234	5.424	66.61
1.350	145.2	0.2129E-03	0.1206	0.1221	0.1051	0.6349	0.6351	236.7
1.350	0.7686E-01	0.2129E-03	19.39	22.16	16.26	3.251	5.460	67.79
1.400	145.2	0.2820E-03	0.1559	0.1579	0.1308	0.7795	0.7797	236.3
1.400	0.9836E-01	0.2820E-03	19.53	22.40	15.86	3.268	5.496	68.94
1.450	145.2	0.3674E-03	0.1990	0.2015	0.1610	0.9465	0.9469	235.9
1.450	0.1240	0.3674E-03	19.67	22.63	15.48	3.286	5.535	70.05
1.500	145.2	0.4715E-03	0.2510	0.2543	0.1962	1.138	1.138	235.4
1.500	0.1542	0.4715E-03	19.81	22.87	15.13	3.304	5.574	71.14
1.550	145.3	0.5970E-03	0.3133	0.3174	0.2370	1.356	1.356	234.9
1.550	0.1894	0.5970E-03	19.94	23.09	14.80	3.322	5.614	72.19
1.600	145.3	0.7464E-03	0.3871	0.3923	0.2839	1.602	1.603	234.4
1.600	0.2301	0.7464E-03	20.08	23.32	14.49	3.340	5.654	73.21
1.650	145.3	0.9224E-03	0.4741	0.4804	0.3374	1.879	1.881	233.8
1.650	0.2765	0.9224E-03	20.21	23.54	14.20	3.357	5.695	74.20
1.700	145.3	0.1128E-02	0.5758	0.5836	0.3981	2.191	2.193	233.1
1.700	0.3292	0.1128E-02	20.34	23.77	13.93	3.374	5.736	75.16
1.750	145.4	0.1366E-02	0.6940	0.7034	0.4666	2.541	2.543	232.4
1.750	0.3885	0.1366E-02	20.47	23.98	13.67	3.390	5.777	76.09
1.800	145.4	0.1638E-02	0.8309	0.8422	0.5437	2.935	2.938	231.5
1.800	0.4547	0.1638E-02	20.60	24.20	13.43	3.406	5.818	77.00
1.850	145.5	0.1949E-02	0.9887	1.002	0.6302	3.380	3.384	230.6
1.850	0.5281	0.1949E-02	20.72	24.41	13.20	3.420	5.858	77.88
1.900	145.5	0.2299E-02	1.170	1.186	0.7270	3.888	3.893	229.4
1.900	0.6090	0.2299E-02	20.85	24.63	12.98	3.433	5.898	78.73
1.950	145.6	0.2692E-02	1.379	1.398	0.8356	4.477	4.484	228.1
1.950	0.6974	0.2692E-02	20.97	24.83	12.78	3.445	5.937	79.57
2.000	145.7	0.3129E-02	1.621	1.642	0.9578	5.177	5.187	226.5
2.000	0.7936	0.3129E-02	21.10	25.04	12.58	3.456	5.975	80.37
2.050	145.7	0.3612E-02	1.901	1.926	1.096	6.046	6.062	224.6
2.050	0.8974	0.3612E-02	21.22	25.25	12.40	3.466	6.011	81.16
2.100	145.9	0.4141E-02	2.232	2.261	1.256	7.216	7.244	222.4
2.100	1.008	0.4141E-02	21.34	25.45	12.23	3.474	6.046	81.93
2.150	146.0	0.4715E-02	2.639	2.671	1.447	9.205	9.269	219.9
2.150	1.127	0.4715E-02	21.46	25.65	12.07	3.481	6.079	82.68
2.200	146.1	0.5335E-02	3.054	3.090	1.638	4.211	4.222	219.5
2.200	1.251	0.5335E-02	21.58	25.85	11.92	3.486	6.111	83.42

TEMP [K]	$\left(\frac{T}{V} \frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_V} \frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho} \frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	TRDIFF [m <sup>2</sup> /s]	FRANDTL
0.8000	0.3396E-03	1.071	0.1798E-06	0.5722E-01				
0.8000	1.003	0.6657	1.001	0.3441E-06				
0.8500	0.3572E-03	0.7049	0.3545E-06	0.5722E-01				
0.8500	1.004	0.6651	1.001	0.6399E-06				
0.9000	0.3400E-03	0.4314	0.6537E-06	0.5721E-01				
0.9000	1.006	0.6644	1.001	0.1116E-05				
0.9500	0.2838E-03	0.2376	0.1139E-05	0.5721E-01				
0.9500	1.008	0.6635	1.002	0.1845E-05				
1.000	0.1848E-03	0.1047	0.1890E-05	0.5721E-01				
1.000	1.011	0.6625	1.003	0.2912E-05				
1.050	0.3989E-04	0.1566E-01	0.3009E-05	0.5721E-01				
1.050	1.014	0.6613	1.004	0.4417E-05				
1.100	-0.1536E-03	-0.4273E-01	0.4619E-05	0.5721E-01				
1.100	1.018	0.6599	1.005	0.6473E-05				
1.150	-0.3980E-03	-0.8006E-01	0.6870E-05	0.5721E-01				
1.150	1.022	0.6583	1.006	0.9207E-05				
1.200	-0.6949E-03	-0.1030	0.9935E-05	0.5722E-01				
1.200	1.027	0.6566	1.007	0.1275E-04				
1.250	-0.1046E-02	-0.1162	0.1402E-04	0.5722E-01				
1.250	1.032	0.6548	1.009	0.1726E-04				
1.300	-0.1452E-02	-0.1229	0.1934E-04	0.5722E-01				
1.300	1.038	0.6529	1.010	0.2288E-04				
1.350	-0.1914E-02	-0.1251	0.2617E-04	0.5722E-01				
1.350	1.044	0.6509	1.012	0.2978E-04				
1.400	-0.2433E-02	-0.1245	0.3478E-04	0.5723E-01				
1.400	1.051	0.6489	1.014	0.3811E-04				
1.450	-0.3011E-02	-0.1220	0.4549E-04	0.5724E-01				
1.450	1.058	0.6468	1.017	0.4804E-04				
1.500	-0.3650E-02	-0.1185	0.5861E-04	0.5724E-01				
1.500	1.065	0.6447	1.019	0.5975E-04				
1.550	-0.4356E-02	-0.1143	0.7452E-04	0.5725E-01				
1.550	1.073	0.6427	1.022	0.7339E-04				
1.600	-0.5138E-02	-0.1100	0.9360E-04	0.5726E-01				
1.600	1.082	0.6407	1.025	0.8913E-04				
1.650	-0.6013E-02	-0.1059	0.1162E-03	0.5727E-01				
1.650	1.090	0.6387	1.028	0.1071E-03				
1.700	-0.7003E-02	-0.1021	0.1429E-03	0.5729E-01				
1.700	1.099	0.6368	1.031	0.1275E-03				
1.750	-0.8149E-02	-0.9887E-01	0.1741E-03	0.5730E-01				
1.750	1.109	0.6350	1.035	0.1505E-03				
1.800	-0.9509E-02	-0.9641E-01	0.2103E-03	0.5732E-01				
1.800	1.119	0.6333	1.038	0.1762E-03				
1.850	-0.1118E-01	-0.9492E-01	0.2522E-03	0.5734E-01				
1.850	1.129	0.6317	1.042	0.2046E-03				
1.900	-0.1329E-01	-0.9459E-01	0.3005E-03	0.5736E-01				
1.900	1.139	0.6302	1.046	0.2359E-03				
1.950	-0.1608E-01	-0.9567E-01	0.3560E-03	0.5738E-01				
1.950	1.150	0.6288	1.051	0.2702E-03				
2.000	-0.1992E-01	-0.9851E-01	0.4196E-03	0.5741E-01				
2.000	1.161	0.6276	1.055	0.3075E-03				
2.050	-0.2553E-01	-0.1036	0.4925E-03	0.5745E-01				
2.050	1.172	0.6266	1.060	0.3477E-03				
2.100	-0.3453E-01	-0.1123	0.5760E-03	0.5749E-01				
2.100	1.183	0.6257	1.065	0.3907E-03				
2.150	-0.5346E-01	-0.1297	0.6724E-03	0.5756E-01				
2.150	1.195	0.6249	1.069	0.4365E-03				
2.200	0.2258E-01	0.1172	0.7595E-03	0.5761E-01				
2.200	1.206	0.6244	1.074	0.4847E-03				

TEMP [K]	DENSITY [kg/m <sup>3</sup> ]	PRESSURE [MPa]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C <sub>v</sub> [J/g·K]	C <sub>p</sub> [J/g·K]	VSOUND [m/s]
2.250	146.0	0.6005E-02	3.229	3.270	1.717	3.033	3.078	220.6
2.250	1.383	0.6005E-02	21.71	26.05	11.78	3.489	6.141	84.14
2.300	145.9	0.6730E-02	3.372	3.418	1.780	2.613	2.685	221.3
2.300	1.523	0.6730E-02	21.82	26.24	11.65	3.492	6.170	84.85
2.350	145.7	0.7512E-02	3.500	3.552	1.835	2.389	2.487	221.8
2.350	1.671	0.7512E-02	21.94	26.44	11.52	3.494	6.199	85.53
2.400	145.5	0.8354E-02	3.621	3.678	1.886	2.252	2.375	222.1
2.400	1.828	0.8354E-02	22.06	26.63	11.40	3.495	6.228	86.20
2.450	145.3	0.9258E-02	3.737	3.801	1.934	2.164	2.314	222.2
2.450	1.994	0.9258E-02	22.18	26.82	11.28	3.495	6.256	86.85
2.500	145.0	0.1023E-01	3.851	3.922	1.980	2.106	2.284	222.1
2.500	2.170	0.1023E-01	22.29	27.00	11.17	3.494	6.285	87.49
2.550	144.7	0.1126E-01	3.962	4.040	2.024	2.098	2.304	221.2
2.550	2.354	0.1126E-01	22.40	27.19	11.06	3.493	6.315	88.10
2.600	144.4	0.1237E-01	4.075	4.161	2.068	2.083	2.320	220.3
2.600	2.549	0.1237E-01	22.51	27.37	10.96	3.491	6.344	88.70
2.650	144.1	0.1355E-01	4.180	4.284	2.112	2.065	2.334	219.4
2.650	2.754	0.1355E-01	22.62	27.54	10.85	3.488	6.375	89.28
2.700	143.8	0.1481E-01	4.305	4.408	2.155	2.049	2.351	218.6
2.700	2.970	0.1481E-01	22.73	27.72	10.76	3.485	6.406	89.85
2.750	143.4	0.1614E-01	4.422	4.534	2.198	2.036	2.374	217.8
2.750	3.196	0.1614E-01	22.84	27.89	10.66	3.482	6.438	90.40
2.800	143.0	0.1755E-01	4.539	4.662	2.240	2.030	2.403	217.1
2.800	3.433	0.1755E-01	22.94	28.06	10.57	3.477	6.470	90.93
2.850	142.6	0.1905E-01	4.658	4.791	2.282	2.030	2.441	216.5
2.850	3.682	0.1905E-01	23.05	28.22	10.48	3.473	6.505	91.44
2.900	142.2	0.2063E-01	4.778	4.923	2.324	2.035	2.486	215.9
2.900	3.942	0.2063E-01	23.15	28.38	10.39	3.467	6.540	91.95
2.950	141.8	0.2229E-01	4.900	5.058	2.366	2.044	2.537	215.2
2.950	4.214	0.2229E-01	23.25	28.54	10.30	3.462	6.577	92.43
3.000	141.4	0.2405E-01	5.025	5.195	2.408	2.061	2.597	214.4
3.000	4.499	0.2405E-01	23.34	28.69	10.22	3.456	6.616	92.90
3.050	140.9	0.2589E-01	5.153	5.337	2.451	2.086	2.667	213.5
3.050	4.796	0.2589E-01	23.44	28.84	10.13	3.450	6.657	93.36
3.100	140.4	0.2784E-01	5.285	5.483	2.494	2.113	2.740	212.5
3.100	5.106	0.2784E-01	23.53	28.98	10.05	3.443	6.700	93.80
3.150	139.9	0.2987E-01	5.419	5.633	2.537	2.141	2.817	211.5
3.150	5.430	0.2987E-01	23.62	29.12	9.975	3.436	6.745	94.22
3.200	139.4	0.3201E-01	5.557	5.787	2.581	2.170	2.896	210.4
3.200	5.767	0.3201E-01	23.71	29.26	9.898	3.428	6.792	94.63
3.250	138.9	0.3425E-01	5.699	5.945	2.625	2.199	2.978	209.2
3.250	6.119	0.3425E-01	23.79	29.39	9.821	3.421	6.843	95.03
3.300	138.4	0.3659E-01	5.844	6.108	2.670	2.228	3.061	208.0
3.300	6.486	0.3659E-01	23.88	29.52	9.747	3.413	6.897	95.41
3.350	137.8	0.3904E-01	5.993	6.276	2.715	2.255	3.146	206.6
3.350	6.869	0.3904E-01	23.95	29.64	9.673	3.405	6.954	95.78
3.400	137.3	0.4159E-01	6.145	6.448	2.760	2.282	3.233	205.3
3.400	7.267	0.4159E-01	24.03	29.76	9.600	3.397	7.015	96.13
3.450	136.7	0.4426E-01	6.301	6.625	2.806	2.307	3.322	203.9
3.450	7.682	0.4426E-01	24.10	29.87	9.529	3.388	7.080	96.47
3.500	136.1	0.4704E-01	6.461	6.806	2.852	2.331	3.413	202.5
3.500	8.114	0.4704E-01	24.17	29.97	9.458	3.379	7.150	96.79
3.550	135.5	0.4994E-01	6.624	6.992	2.899	2.354	3.506	201.0
3.550	8.564	0.4994E-01	24.24	30.07	9.388	3.370	7.224	97.10
3.600	134.8	0.5296E-01	6.791	7.184	2.946	2.376	3.601	199.5
3.600	9.033	0.5296E-01	24.31	30.17	9.318	3.361	7.305	97.40
3.650	134.2	0.5609E-01	6.961	7.380	2.994	2.396	3.700	197.9
3.650	9.521	0.5609E-01	24.37	30.26	9.250	3.352	7.391	97.68

TEMP [K]	$\left(\frac{T}{V} \frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_V} \frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho} \frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m <sup>2</sup> /s]	PRANDTL
2.250	0.4592E-01	0.3227	0.8576E-03	0.5757E-01				
2.250	1.218	0.6240	1.079	0.5358E-03				
2.300	0.5911E-01	0.4686	0.9682E-03	0.5751E-01				
2.300	1.229	0.6237	1.085	0.5900E-03				
2.350	0.6983E-01	0.5877	0.1091E-02	0.5743E-01				
2.350	1.242	0.6236	1.090	0.6475E-03				
2.400	0.7965E-01	0.6890	0.1228E-02	0.5735E-01				
2.400	1.254	0.6235	1.096	0.7084E-03				
2.450	0.8917E-01	0.7765	0.1381E-02	0.5725E-01				
2.450	1.267	0.6236	1.102	0.7727E-03				
2.500	0.9870E-01	0.8526	0.1550E-02	0.5715E-01				
2.500	1.281	0.6237	1.108	0.8407E-03				
2.550	0.1087	0.9051	0.1747E-02	0.5704E-01				
2.550	1.295	0.6240	1.114	0.9124E-03				
2.600	0.1189	0.9570	0.1966E-02	0.5692E-01				
2.600	1.309	0.6244	1.121	0.9879E-03				
2.650	0.1294	1.007	0.2208E-02	0.5679E-01				
2.650	1.324	0.6248	1.128	0.1067E-02				
2.700	0.1401	1.055	0.2474E-02	0.5666E-01				
2.700	1.340	0.6254	1.135	0.1151E-02				
2.750	0.1510	1.098	0.2765E-02	0.5651E-01				
2.750	1.356	0.6260	1.143	0.1239E-02				
2.800	0.1621	1.135	0.3081E-02	0.5636E-01				
2.800	1.373	0.6267	1.151	0.1331E-02				
2.850	0.1734	1.168	0.3425E-02	0.5620E-01				
2.850	1.391	0.6276	1.159	0.1427E-02				
2.900	0.1851	1.197	0.3801E-02	0.5604E-01				
2.900	1.410	0.6285	1.167	0.1528E-02				
2.950	0.1975	1.222	0.4214E-02	0.5587E-01				
2.950	1.430	0.6295	1.176	0.1633E-02				
3.000	0.2101	1.239	0.4666E-02	0.5569E-01				
3.000	1.450	0.6306	1.186	0.1744E-02				
3.050	0.2229	1.250	0.5155E-02	0.5551E-01				
3.050	1.472	0.6318	1.196	0.1859E-02				
3.100	0.2362	1.256	0.5690E-02	0.5532E-01				
3.100	1.494	0.6330	1.206	0.1979E-02				
3.150	0.2501	1.261	0.6277E-02	0.5512E-01				
3.150	1.518	0.6344	1.217	0.2105E-02				
3.200	0.2646	1.264	0.6920E-02	0.5492E-01				
3.200	1.543	0.6358	1.228	0.2236E-02				
3.250	0.2797	1.265	0.7626E-02	0.5472E-01				
3.250	1.570	0.6373	1.240	0.2372E-02				
3.300	0.2956	1.265	0.8401E-02	0.5450E-01				
3.300	1.598	0.6389	1.252	0.2515E-02				
3.350	0.3122	1.265	0.9251E-02	0.5428E-01				
3.350	1.627	0.6406	1.265	0.2663E-02				
3.400	0.3297	1.264	0.1019E-01	0.5405E-01				
3.400	1.658	0.6424	1.279	0.2818E-02				
3.450	0.3481	1.263	0.1121E-01	0.5382E-01				
3.450	1.691	0.6443	1.294	0.2979E-02				
3.500	0.3676	1.262	0.1235E-01	0.5358E-01				
3.500	1.726	0.6463	1.309	0.3146E-02				
3.550	0.3882	1.260	0.1359E-01	0.5333E-01	0.1785E-01	3.447	0.3758E-07	0.6770
3.550	1.764	0.6484	1.326	0.3321E-02	0.7187E-02	0.9864	0.1162E-06	0.9916
3.600	0.4100	1.258	0.1497E-01	0.5307E-01	0.1794E-01	3.440	0.3695E-07	0.6906
3.600	1.803	0.6505	1.343	0.3503E-02	0.7310E-02	1.004	0.1108E-06	1.003
3.650	0.4332	1.256	0.1649E-01	0.5281E-01	0.1802E-01	3.431	0.3631E-07	0.7044
3.650	1.846	0.6528	1.362	0.3693E-02	0.7435E-02	1.022	0.1057E-06	1.016

TEMP [K]	DENSITY [kg/m <sup>3</sup> ]	PRESSURE [MPa]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C <sub>v</sub> [J/g·K]	C <sub>p</sub> [J/g·K]	VSOUND [m/s]
3.700	133.5	0.5935E-01	7.136	7.581	3.042	2.415	3.801	196.3
3.700	10.03	0.5935E-01	24.42	30.34	9.181	3.343	7.484	97.95
3.750	132.8	0.6274E-01	7.314	7.787	3.091	2.432	3.907	194.7
3.750	10.56	0.6274E-01	24.47	30.41	9.113	3.333	7.585	98.20
3.800	132.0	0.6625E-01	7.496	7.998	3.140	2.449	4.017	193.0
3.800	11.11	0.6625E-01	24.52	30.48	8.046	3.324	7.694	98.44
3.850	131.3	0.6989E-01	7.683	8.215	3.189	2.464	4.133	191.2
3.850	11.69	0.6989E-01	24.56	30.55	8.978	3.314	7.813	98.67
3.900	130.5	0.7366E-01	7.873	8.437	3.239	2.478	4.254	189.5
3.900	12.29	0.7366E-01	24.60	30.60	8.911	3.304	7.942	98.88
3.950	129.7	0.7757E-01	8.068	8.665	3.290	2.492	4.382	187.7
3.950	12.91	0.7757E-01	24.64	30.65	8.844	3.294	8.083	99.08
4.000	128.9	0.8162E-01	8.266	8.899	3.341	2.504	4.519	185.8
4.000	13.56	0.8162E-01	24.67	30.68	8.776	3.284	8.238	99.27
4.050	128.1	0.8581E-01	8.470	9.140	3.392	2.516	4.664	183.9
4.050	14.25	0.8581E-01	24.69	30.71	8.709	3.274	8.408	99.44
4.100	127.2	0.9014E-01	8.678	9.387	3.444	2.527	4.820	182.0
4.100	14.96	0.9014E-01	24.71	30.73	8.641	3.263	8.595	99.60
4.150	126.3	0.9461E-01	8.891	9.640	3.497	2.538	4.988	180.0
4.150	15.70	0.9461E-01	24.72	30.74	8.573	3.253	8.802	99.74
4.200	125.4	0.9923E-01	9.109	9.901	3.551	2.548	5.170	177.9
4.200	16.49	0.9923E-01	24.72	30.74	8.504	3.243	9.033	99.88
4.250	124.4	0.1040	9.333	10.17	3.605	2.557	5.369	175.8
4.250	17.31	0.1040	24.72	30.73	8.434	3.232	9.291	100.0
4.300	123.4	0.1089	9.563	10.45	3.661	2.566	5.587	173.7
4.300	18.17	0.1089	24.71	30.71	8.363	3.221	9.582	100.1
4.350	122.3	0.1140	9.799	10.73	3.717	2.575	5.828	171.4
4.350	19.08	0.1140	24.69	30.67	8.292	3.210	9.910	100.2
4.400	121.3	0.1193	10.04	11.02	3.775	2.584	6.097	169.1
4.400	20.03	0.1193	24.66	30.62	8.218	3.200	10.29	100.3
4.450	120.1	0.1247	10.29	11.33	3.833	2.592	6.400	166.8
4.450	21.05	0.1247	24.63	30.55	8.144	3.189	10.72	100.3
4.500	118.9	0.1303	10.55	11.64	3.893	2.601	6.742	164.3
4.500	22.12	0.1303	24.58	30.47	8.067	3.177	11.22	100.4
4.550	117.7	0.1360	10.82	11.97	3.955	2.609	7.135	161.8
4.550	23.27	0.1360	24.52	30.36	7.988	3.166	11.80	100.5
4.600	116.3	0.1419	11.09	12.31	4.018	2.618	7.590	159.2
4.600	24.49	0.1419	24.44	30.24	7.906	3.154	12.50	100.5
4.650	114.9	0.1480	11.38	12.67	4.084	2.626	8.125	156.5
4.650	25.80	0.1480	24.35	30.09	7.821	3.143	13.34	100.5
4.700	113.5	0.1543	11.68	13.04	4.151	2.635	8.763	153.7
4.700	27.22	0.1543	24.24	29.91	7.732	3.130	14.37	100.6
4.750	111.9	0.1608	11.99	13.43	4.222	2.645	9.540	150.8
4.750	28.76	0.1608	24.11	29.70	7.639	3.118	15.66	100.6
4.800	110.2	0.1674	12.33	13.85	4.296	2.655	10.51	147.8
4.800	30.44	0.1674	23.95	29.45	7.539	3.105	17.32	100.6
4.850	108.3	0.1743	12.68	14.29	4.375	2.666	11.74	144.6
4.850	32.32	0.1743	23.76	29.15	7.433	3.091	19.54	100.7
4.900	106.3	0.1813	13.05	14.76	4.458	2.677	13.38	141.3
4.900	34.42	0.1813	23.53	28.80	7.317	3.077	22.64	100.8
4.950	104.0	0.1886	13.46	15.28	4.549	2.690	15.65	137.8
4.950	36.84	0.1886	23.25	28.37	7.188	3.061	27.27	100.9
5.000	101.4	0.1960	13.91	15.85	4.649	2.706	19.02	134.1
5.000	39.71	0.1960	22.89	27.83	7.041	3.044	34.93	101.2
5.050	98.40	0.2037	14.42	16.49	4.763	2.723	24.47	130.2
5.050	43.30	0.2037	22.42	27.12	6.863	3.023	50.05	101.6
5.100	94.71	0.2116	15.03	17.26	4.898	2.745	34.60	125.9
5.100	48.38	0.2116	21.70	26.08	6.624	2.996	95.84	102.3

TEMP [K]	$\left(\frac{T}{V} \frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_V} \frac{\partial E}{\partial T}\right)_V$	$\left(\frac{P}{\rho} \frac{\partial \rho}{\partial T}\right)_T$	DIEL - 1	CONDUCT [W/m <sup>2</sup> -K]	VISC [μPa·s]	THDIFF [m <sup>2</sup> /s]	PRANDTL
3.700	0.4579	1.254	0.1817E-01	0.5253E-01	0.1810E-01	3.422	0.3558E-07	0.7186
3.700	1.891	0.6552	1.381	0.3890E-02	0.7561E-02	1.040	0.1007E-06	1.029
3.750	0.4843	1.252	0.2003E-01	0.5225E-01	0.1818E-01	3.411	0.3504E-07	0.7333
3.750	1.940	0.6576	1.402	0.4096E-02	0.7690E-02	1.058	0.9601E-07	1.044
3.800	0.5125	1.250	0.2211E-01	0.5197E-01	0.1825E-01	3.400	0.3440E-07	0.7485
3.800	1.992	0.6602	1.424	0.4310E-02	0.7820E-02	1.076	0.9147E-07	1.059
3.850	0.5428	1.248	0.2441E-01	0.5167E-01	0.1831E-01	3.387	0.3375E-07	0.7644
3.850	2.048	0.6629	1.448	0.4533E-02	0.7952E-02	1.095	0.8710E-07	1.076
3.900	0.5755	1.245	0.2698E-01	0.5136E-01	0.1837E-01	3.374	0.3308E-07	0.7811
3.900	2.109	0.6657	1.474	0.4766E-02	0.8087E-02	1.114	0.8288E-07	1.094
3.950	0.6107	1.243	0.2985E-01	0.5104E-01	0.1843E-01	3.359	0.3241E-07	0.7988
3.950	2.175	0.6686	1.502	0.5009E-02	0.8224E-02	1.133	0.7880E-07	1.114
4.000	0.6489	1.240	0.3308E-01	0.5072E-01	0.1848E-01	3.344	0.3172E-07	0.8175
4.000	2.246	0.6717	1.532	0.5263E-02	0.8365E-02	1.152	0.7486E-07	1.135
4.050	0.6904	1.237	0.3671E-01	0.5038E-01	0.1853E-01	3.327	0.3102E-07	0.8375
4.050	2.324	0.6748	1.564	0.5528E-02	0.8509E-02	1.172	0.7104E-07	1.158
4.100	0.7357	1.233	0.4080E-01	0.5003E-01	0.1857E-01	3.310	0.3029E-07	0.8590
4.100	2.409	0.6782	1.600	0.5805E-02	0.8656E-02	1.192	0.6733E-07	1.184
4.150	0.7854	1.229	0.4545E-01	0.4967E-01	0.1861E-01	3.291	0.2954E-07	0.8822
4.150	2.503	0.6816	1.638	0.6095E-02	0.8809E-02	1.212	0.6372E-07	1.211
4.200	0.8402	1.225	0.5073E-01	0.4930E-01	0.1864E-01	3.272	0.2876E-07	0.9073
4.200	2.606	0.6852	1.681	0.6399E-02	0.8966E-02	1.233	0.6021E-07	1.242
4.250	0.9008	1.221	0.5678E-01	0.4891E-01	0.1867E-01	3.252	0.2796E-07	0.9348
4.250	2.721	0.6880	1.728	0.6719E-02	0.9129E-02	1.254	0.5677E-07	1.276
4.300	0.9683	1.216	0.6373E-01	0.4851E-01	0.1870E-01	3.230	0.2713E-07	0.9650
4.300	2.849	0.6930	1.780	0.7054E-02	0.9299E-02	1.276	0.5342E-07	1.314
4.350	1.044	1.210	0.7177E-01	0.4809E-01	0.1873E-01	3.207	0.2626E-07	0.9983
4.350	2.994	0.6971	1.838	0.7407E-02	0.9477E-02	1.298	0.5013E-07	1.357
4.400	1.129	1.204	0.8114E-01	0.4765E-01	0.1875E-01	3.184	0.2536E-07	1.035
4.400	3.157	0.7015	1.903	0.7780E-02	0.9664E-02	1.320	0.4690E-07	1.405
4.450	1.226	1.198	0.9213E-01	0.4720E-01	0.1877E-01	3.159	0.2442E-07	1.077
4.450	3.344	0.7060	1.977	0.8174E-02	0.9862E-02	1.343	0.4373E-07	1.460
4.500	1.338	1.191	0.1051	0.4672E-01	0.1879E-01	3.133	0.2343E-07	1.124
4.500	3.559	0.7109	2.062	0.8593E-02	0.1007E-01	1.367	0.4059E-07	1.523
4.550	1.466	1.183	0.1207	0.4622E-01	0.1881E-01	3.105	0.2240E-07	1.178
4.550	3.810	0.7159	2.159	0.9039E-02	0.1030E-01	1.392	0.3750E-07	1.595
4.600	1.617	1.175	0.1395	0.4570E-01	0.1883E-01	3.076	0.2132E-07	1.240
4.600	4.106	0.7213	2.274	0.9515E-02	0.1054E-01	1.418	0.3443E-07	1.681
4.650	1.797	1.165	0.1626	0.4514E-01	0.1885E-01	3.045	0.2019E-07	1.312
4.650	4.461	0.7271	2.409	0.1003E-01	0.1080E-01	1.444	0.3139E-07	1.783
4.700	2.013	1.155	0.1914	0.4455E-01	0.1888E-01	3.012	0.1899E-07	1.398
4.700	4.895	0.7332	2.573	0.1058E-01	0.1109E-01	1.472	0.2836E-07	1.907
4.750	2.279	1.144	0.2279	0.4392E-01	0.1891E-01	2.977	0.1772E-07	1.502
4.750	5.436	0.7397	2.774	0.1118E-01	0.1141E-01	1.501	0.2534E-07	2.060
4.800	2.613	1.132	0.2753	0.4324E-01	0.1894E-01	2.940	0.1637E-07	1.630
4.800	6.130	0.7468	3.029	0.1184E-01	0.1177E-01	1.533	0.2232E-07	2.256
4.850	3.044	1.119	0.3388	0.4250E-01	0.1899E-01	2.899	0.1493E-07	1.793
4.850	7.051	0.7545	3.361	0.1257E-01	0.1218E-01	1.566	0.1929E-07	2.512
4.900	3.622	1.104	0.4268	0.4169E-01	0.1905E-01	2.855	0.1339E-07	2.006
4.900	8.332	0.7630	3.815	0.1339E-01	0.1266E-01	1.602	0.1624E-07	2.866
4.950	4.433	1.087	0.5552	0.4079E-01	0.1912E-01	2.807	0.1175E-07	2.298
4.950	10.24	0.7725	4.476	0.1433E-01	0.1323E-01	1.643	0.1317E-07	3.385
5.000	5.645	1.068	0.7550	0.3977E-01	0.1923E-01	2.752	0.9970E-08	2.722
5.000	13.37	0.7835	5.535	0.1545E-01	0.1397E-01	1.689	0.1008E-07	4.221
5.050	7.630	1.046	1.097	0.3857E-01	0.1940E-01	2.689	0.8057E-08	3.392
5.050	19.53	0.7967	7.550	0.1686E-01	0.1502E-01	1.744	0.6929E-08	5.814
5.100	11.37	1.021	1.777	0.3710E-01	0.1968E-01	2.613	0.6006E-08	4.595
5.100	38.04	0.8145	13.37	0.1885E-01	0.1694E-01	1.820	0.3654E-08	10.30

