

## Appendix

### Thermophysical Property Data Tables for Organosilicon Compounds in the Entire Temperature Range of Existence of a Liquid Phase

#### A.1: Chlorosilanes

##### A.1.1: Dimethylchlorosilane (CH<sub>3</sub>)<sub>2</sub>CHClSi

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$\alpha \cdot 10^6$ , m <sup>2</sup> /s	Pr
165	16.0	1075	28.8	1.293	0.1376	30.1	0.0990	291
180	79.5	1045	17.1	1.350	0.1342	28.1	0.0951	180
200	426	1013	9.45	1.426	0.1310	26.1	0.0907	104
220	1740	980.6	6.01	1.502	0.1278	24.1	0.0868	69.3
240	5550	948.2	3.38	1.578	0.1246	22.1	0.0833	40.6
260	$1.53 \cdot 10^4$	915.8	2.79*	1.654	0.1214	20.1	0.0803	34.7
280	$3.66 \cdot 10^4$	883.4*	2.11*	1.730	0.1182	18.1*	0.0773	87.3
300	$7.87 \cdot 10^4$	851.0*	1.67	1.806	0.1150	16.1*	0.0748	22.3
320	$1.46 \cdot 10^5$	818.6	1.46	1.882	0.1118	14.1	0.0730	20.0
340	$2.54 \cdot 10^5$	786.2	1.16	1.958	0.1086	12.1	0.0712	16.3
360	$4.23 \cdot 10^5$	753.8	1.03	2.034	0.1054	10.1	0.0693	14.9
380	$6.61 \cdot 10^5$	721.4	0.93	2.110	0.1022	8.1	0.0675	13.8
400	$9.99 \cdot 10^5$	689.0	0.85	2.186	0.0990	6.1	0.0657	12.9
420	$1.44 \cdot 10^6$	656.6	0.81	2.326	0.0958	4.1	0.0627	12.9
440	$2.02 \cdot 10^6$	608.2	0.77	2.563	0.0920	2.5	0.0590	13.0
460	$2.76 \cdot 10^6$	542.3	0.74	2.978	0.0835	1.0	0.0570	14.3
470	$3.17 \cdot 10^6$	475.3	0.73	4.125	0.0740	0.3	0.0377	19.2
475.1	$3.17 \cdot 10^6$	320.7	0.72	$\infty$	0.0601	0.00	0.0000	$\infty$

\*Here and in all the tables below asterisk denotes experimentally determined values

A.1.2: Trimethylchlorosilane (CH<sub>3</sub>)ClSi

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6,$ $m^2/s$	$c_p,$ $kJ/(kg \cdot K)$	$\lambda,$ $W/(m \cdot K)$	$\sigma \cdot 10^3,$ $N/m$	$a \cdot 10^6,$ $m^2/s$	Pr
220	235	959.6	2.03	1.435	0.1290	25.8	0.0937	21.7
240	1050	934.2	1.42	1.509	0.1258	23.6	0.0892	15.9
260	3900	908.2	1.01	1.583	0.1226	21.4	0.0853	11.8
280	$1.20 \cdot 10^4$	882.3*	0.74*	1.657	0.1194	19.2	0.0817	9.06
300	$2.90 \cdot 10^4$	855.5*	0.56*	1.731	0.1162	17.0	0.0785	7.14
320	$6.80 \cdot 10^4$	825.5*	0.45*	1.805	0.1130	14.8	0.0758	5.93
340	$1.25 \cdot 10^5$	795.5	0.37*	1.879	0.1098	12.6	0.0735	5.04
360	$2.10 \cdot 10^5$	765.5	0.32	1.953	0.1066	10.4	0.0713	4.49
380	$3.30 \cdot 10^5$	735.5	0.29	2.027	0.1034	8.20	0.0694	4.18
400	$4.90 \cdot 10^5$	701.9	0.27	2.101	0.1002	6.05	0.0679	3.97
420	$7.50 \cdot 10^5$	665.8	0.25	2.175	0.0970	4.21	0.0670	3.73
440	$1.07 \cdot 10^6$	628.6	0.24	2.249	0.0938	2.68	0.0663	3.54
460	$1.65 \cdot 10^6$	586.1	0.23	2.555	0.0906	1.45	0.0605	3.72
480	$2.25 \cdot 10^6$	530.3	0.22	2.890	0.0848	0.55	0.0553	3.94
490	$2.70 \cdot 10^6$	469.2	0.21	3.542	0.0726	0.22	0.0437	4.90
498	$3.08 \cdot 10^6$	310.5	0.21	$\infty$	0.0570	0.00	0.00	$\infty$

A.1.3: Methylchlorosilane (CH<sub>3</sub>)HCl<sub>2</sub>Si

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6,$ $m^2/s$	$c_p,$ $kJ/(kg \cdot K)$	$\lambda,$ $W/(m \cdot K)$	$\sigma \cdot 10^3,$ $N/m$	$a \cdot 10^6,$ $m^2/s$	Pr
185	610	1277	2.77	0.702	0.1408	34.0	0.1571	17.6
200	1330	1253	1.98	0.835	0.1377	31.5	0.1316	15.0
220	3530	1222	1.28	0.907	0.1346	28.9	0.1214	10.5
240	8400	1190	0.91	0.979	0.1315	26.3	0.1129	8.08
260	$1.85 \cdot 10^4$ *	1159	0.64	1.051	0.1284	23.7	0.1054	6.07
280	$3.77 \cdot 10^4$ *	1127*	0.49*	1.123*	0.1253*	21.1*	0.0990	4.95
300	$7.17 \cdot 10^4$ *	1096*	0.38*	1.195*	0.1222*	18.5*	0.0933	4.07
320	$1.23 \cdot 10^5$ *	1065	0.31*	1.267*	0.1191*	15.9*	0.0883	3.51
340	$2.05 \cdot 10^5$	1033	0.26	1.339	0.1160	13.3	0.0839	3.10
360	$3.51 \cdot 10^5$	1002	0.23	1.411	0.1129	10.7	0.0799	2.88
380	$5.46 \cdot 10^5$	970.4	0.21	1.483	0.1098	8.10	0.0763	2.75
400	$8.91 \cdot 10^5$	939.0	0.193	1.555	0.1067	5.52	0.0731	2.64
420	$1.35 \cdot 10^6$	907.6	0.186	1.673	0.1036	3.45	0.0682	2.73
440	$2.02 \cdot 10^6$	855.5	0.179	1.859	0.1005	1.95	0.0632	2.83
460	$2.96 \cdot 10^6$	786.6	0.172	2.141	0.0930	0.75	0.0552	3.12
470	$3.51 \cdot 10^6$	725.1	0.166	2.970	0.0833	0.25	0.0387	4.29
475	$3.87 \cdot 10^6$	402.2	0.162	$\infty$	0.0604	0.00	0.00	$\infty$

A.1.4: Ethyldichlorosilane (C<sub>2</sub>H<sub>5</sub>)HCl<sub>2</sub>Si

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
170	1.61	1277	8.42	0.840	0.1442	39.0	0.1344	62.6
180	4.48	1250	6.22	0.900	0.1411	36.4	0.1254	49.6
200	41.7	1226	3.34	0.970	0.1380	33.8	0.1160	28.8
220	217	1198	1.96	1.042	0.1349	31.2	0.1081	18.1
240	868	1169	1.25	1.114	0.1318	28.6	0.1012	12.4
260	2770	1141	0.89	1.186	0.1287	26.0	0.0951	9.36
280	7740	1112*	0.64*	1.258	0.1256	23.4	0.0898	7.13
300	$1.71 \cdot 10^4$	1083*	0.50*	1.330	0.1225	20.8	0.0850	5.88
320	$3.63 \cdot 10^4$	1054	0.41*	1.402	0.1194	18.2	0.0808	5.07
340	$7.55 \cdot 10^4$ *	1025	0.36*	1.474	0.1163	15.6	0.0770	4.68
360	$1.42 \cdot 10^5$ *	996.6	0.31*	1.546	0.1132	13.0	0.0735	4.22
380	$2.42 \cdot 10^5$	967.8	0.28	1.618	0.1101	10.4	0.0703	3.98
400	$3.94 \cdot 10^5$	939.0	0.25	1.690	0.1070	7.82	0.0674	3.71
420	$6.08 \cdot 10^5$	910.2	0.23	1.762	0.1039	5.56	0.0648	3.55
440	$8.92 \cdot 10^5$	881.4	0.21	1.834	0.1008	3.66	0.0624	3.37
460	$1.30 \cdot 10^6$	846.0	0.198	1.906	0.0977	2.23	0.0606	3.27
480	$1.80 \cdot 10^6$	794.0	0.188	2.078	0.0942	1.21	0.0571	3.29
500	$2.47 \cdot 10^6$	736.1	0.180	2.351	0.0891	0.51	0.0515	3.50
520	$3.29 \cdot 10^6$	640.1	0.173	3.628	0.0684	0.11	0.0295	5.87
525	$3.50 \cdot 10^6$	339.4	0.170	$\infty$	0.0548	0.00	0.00	$\infty$

A.1.5: Trichlorosilane SiHCl<sub>3</sub>

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
150	0.49	1576	6.03	0.877	0.1417	37.0	0.1026	58.8
160	2.55	1552	4.15	0.913	0.1387	35.7	0.0979	42.4
180	52.2*	1526	2.18	0.985	0.1357	33.1	0.0905	24.1
200	279*	1498	1.26	1.057	0.1327	30.5	0.0840	15.0
220	1400*	1468	0.84	1.129	0.1297	27.9	0.0785	10.7
240	5200*	1436	0.57	1.201	0.1267	25.3	0.0734	7.77
260	$1.55 \cdot 10^4$ *	1402	0.40	1.273	0.1237	22.7	0.0693	5.77
280	$4.00 \cdot 10^4$ *	1366*	0.31*	1.345*	0.1207	20.1*	0.0657	4.72
300	$8.70 \cdot 10^4$ *	1330*	0.244*	1.417*	0.1177	17.5*	0.0624	3.91
320	$1.65 \cdot 10^5$ *	1294	0.20*	1.489*	0.1147	14.9*	0.0595	3.36
340	$3.00 \cdot 10^5$	1258*	0.165	1.561	0.1117	12.3	0.0569	2.90
360	$4.85 \cdot 10^5$	1212*	0.143	1.633	0.1087	9.70	0.0550	2.60
380	$7.71 \cdot 10^5$	1162*	0.131	1.705	0.1057	7.11	0.0533	2.46
400	$1.15 \cdot 10^6$	1108*	0.120	1.777	0.1027	4.87	0.0522	2.30
420	$1.68 \cdot 10^6$	1070*	0.112	1.860	0.0997	3.03	0.0501	2.24
440	$2.33 \cdot 10^6$	972*	0.106	2.017	0.0967	1.62	0.0495	2.14
460	$3.09 \cdot 10^6$	864*	0.102	2.330	0.0908	0.62	0.0451	2.26
470	$3.53 \cdot 10^6$	744	0.100	2.692	0.0786	0.26	0.0392	2.55
480.2	$3.93 \cdot 10^6$	502.2	0.098	$\infty$	0.0537	0.00	0.00	$\infty$

A.1.6: Methylvinylchloroethane (CH<sub>3</sub>)(C<sub>2</sub>H<sub>3</sub>)Cl<sub>2</sub>Si

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
200	19.1	1202	3.03	0.940	0.1188	32.0	0.1051	28.8
220	117	1180	1.87	1.012	0.1158	29.6	0.0969	19.3
240	467	1156	1.19	1.084	0.1128	27.2	0.0900	13.2
260	1463	1130	0.84	1.156	0.1098	24.8	0.0841	10.0
280	4010	1104*	0.60*	1.228*	0.1068	22.4	0.0788	7.62
300	9800	1077*	0.46*	1.300*	0.1038	20.0	0.0741	6.21
320	$2.16 \cdot 10^4$	1050	0.37	1.372*	0.1008	17.6	0.0705	5.25
340	$4.55 \cdot 10^4$	1024	0.30	1.444	0.0978	15.2	0.0669	4.48
360	$8.44 \cdot 10^4$ *	996.6	0.25	1.516	0.0948	12.8	0.0633	3.95
380	$1.52 \cdot 10^5$ *	969.8	0.21	1.588	0.0918	10.4	0.0596	3.52
400	$2.41 \cdot 10^5$	943.0	0.19	1.660	0.0888	8.01	0.0567	3.35
420	$3.95 \cdot 10^5$	916.2	0.17	1.732	0.0858	6.02	0.0541	3.15
440	$5.95 \cdot 10^5$	889.4	0.16	1.804	0.0828	4.45	0.0516	3.10
460	$8.25 \cdot 10^5$	862.6	0.15	1.884	0.0798	3.19	0.0491	3.05
480	$1.23 \cdot 10^6$	835.8	0.14	1.976	0.0768	2.14	0.0465	3.01
500	$1.59 \cdot 10^6$	794.5	0.13	2.115	0.0738	1.36	0.0439	2.96
520	$2.21 \cdot 10^6$	737.7	0.127	2.440	0.0700	0.58	0.0389	3.27
540	$2.78 \cdot 10^6$	514.4	0.125	3.806	0.0601	0.10	0.0307	4.07
544.8	$2.96 \cdot 10^6$	357.2	0.124	$\infty$	0.0408	0.00	0.00	$\infty$

A.1.7: Methyltrichlorosilane (CH<sub>3</sub>)Cl<sub>3</sub>Si

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
140	0.05	1475	25.7	0.597	0.1653	39.6	0.1877	137
160	1.12	1450	10.3	0.657	0.1623	36.9	0.1704	60.5
180	17.20	1427	5.30	0.707	0.1593	34.2	0.1579	33.6
200	84.10	1400	2.90	0.777	0.1563	31.5	0.1437	20.2
220	425	1373	1.80	0.847	0.1533	28.8	0.1318	13.7
240	1510	1347	1.20	0.917	0.1503	26.1	0.1217	9.86
260	4550	1320	0.84	0.987	0.1473	23.4	0.1131	7.43
280	$1.08 \cdot 10^4$	1294*	0.62*	1.057*	0.1443	20.7	0.1055	5.88
300	$2.55 \cdot 10^4$	1267*	0.49*	1.127*	0.1413	18.0	0.0990	4.95
320	$5.51 \cdot 10^4$	1240*	0.40*	1.197*	0.1383	15.3	0.0932	4.29
340	$1.05 \cdot 10^5$ *	1214*	0.345*	1.267*	0.1353	12.6	0.0880	3.92
360	$1.82 \cdot 10^5$ *	1187*	0.300	1.337	0.1323	9.90	0.0834	3.60
380	$3.03 \cdot 10^5$ *	1161	0.268	1.407	0.1293	7.22	0.0792	3.39
400	$4.68 \cdot 10^5$ *	1134	0.239	1.477	0.1263	4.88	0.0754	3.17
420	$7.11 \cdot 10^5$	1107	0.218	1.547	0.1233	3.21	0.0720	3.03
440	$1.05 \cdot 10^6$	1081	0.199	1.617	0.1203	2.01	0.0693	2.87
460	$1.49 \cdot 10^6$	1044	0.185	1.742	0.1170	1.22	0.0643	2.88
480	$2.06 \cdot 10^6$	994	0.171	1.921	0.1120	0.62	0.0587	2.92
500	$2.70 \cdot 10^6$	918	0.157	2.180	0.1010	0.22	0.0504	3.11
518	$3.43 \cdot 10^6$	433.3	0.151	$\infty$	0.0483	0.00	0.00	$\infty$

A.1.8: Triethylchlorosilane (C<sub>2</sub>H<sub>5</sub>)ClSi

<i>T</i> , K	<i>p</i> , Pa	<i>ρ</i> , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	<i>c<sub>p</sub></i> , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
230	4.4	983.0	2.16	1.550	0.1310	28.1	0.0860	25.1
240	11.1	971.0	1.68	1.577	0.1281	27.2	0.0838	20.1
260	71.4	948.0	1.11	1.637	0.1252	25.5	0.0807	13.8
280	297	925.0*	0.79*	1.696*	0.1228	23.8	0.0783	10.2
300	978*	902.1*	0.57*	1.768*	0.1193	22.1	0.0748	7.62
320	2750*	876.2	0.43	1.839	0.1164	20.4	0.0704	6.11
340	6850*	850.4	0.34	1.910	0.1134	18.7	0.0698	4.87
360	1.66 · 10 <sup>4</sup> *	824.5	0.28	1.981	0.1105	17.0	0.0677	4.14
380	3.30 · 10 <sup>4</sup> *	798.7	0.23	2.052	0.1075	15.3	0.0656	3.51
400	5.90 · 10 <sup>4</sup> *	772.8	0.20	2.123	0.1046	13.6	0.0638	3.14
420	1.02 · 10 <sup>5</sup> *	746.9	0.17	2.194	0.1017	11.9	0.0621	2.74
440	1.62 · 10 <sup>5</sup>	721.1	0.15	2.265	0.0987	10.2	0.0604	2.48
460	2.48 · 10 <sup>5</sup>	695.2	0.13	2.336	0.0958	8.74	0.0590	2.20
480	3.73 · 10 <sup>5</sup>	669.4	0.12	2.407	0.0928	7.22	0.0576	2.08
500	5.37 · 10 <sup>5</sup>	643.5	0.11	2.478	0.0899	5.83	0.0564	1.95
520	7.52 · 10 <sup>5</sup>	610.0	0.10	2.552	0.0867	4.49	0.0556	1.80
540	1.03 · 10 <sup>6</sup>	580.0	0.095	2.649	0.0840	3.36	0.0547	1.74
560	1.36 · 10 <sup>6</sup>	546.0	0.090	2.813	0.0796	2.30	0.0518	1.74
580	1.77 · 10 <sup>6</sup>	506.0	0.085	3.084	0.0723	1.41	0.0463	1.83
600	2.20 · 10 <sup>6</sup>	457.0	0.080	3.477	0.0628	0.65	0.0395	2.02
620	2.68 · 10 <sup>6</sup>	291.3	0.075	∞	0.0353	0.00	0.00	∞

A.1.9: Diethyldichlorosilane (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>Cl<sub>2</sub>Si

<i>T</i> , K	<i>p</i> , Pa	<i>ρ</i> , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	<i>c<sub>p</sub></i> , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
180	0.31	1181	10.9	1.058	0.1505	43.9	0.1204	90.5
200	3.04	1159	5.69	1.121	0.1476	41.5	0.1136	50.1
220	19.9	1136	3.19	1.185	0.1447	39.1	0.1075	29.7
240	95.5	1113	1.96	1.248	0.1418	36.7	0.1021	19.2
260	368	1090	1.31	1.311	0.1389	34.3	0.0972	13.5
280	1200	1070*	0.95*	1.374*	0.1360*	31.9*	0.0923	10.3
300	3000	1047*	0.71*	1.444*	0.1331*	29.5*	0.0880	8.07
320	6920	1022	0.57*	1.514*	0.1302*	27.1*	0.0841	6.77
340	1.47 · 10 <sup>4</sup>	996.2	0.47*	1.584	0.1273	24.7*	0.0807	5.83
360	2.98 · 10 <sup>4</sup>	970.8	0.39*	1.654	0.1244	22.3*	0.0775	5.03
380	5.35 · 10 <sup>4</sup>	945.4	0.34*	1.724	0.1215	19.9*	0.0745	4.56
400	9.42 · 10 <sup>4</sup> *	920.0	0.29	1.794	0.1186	17.5	0.0719	4.03
420	1.50 · 10 <sup>5</sup> *	894.6	0.25	1.854	0.1157	15.1	0.0694	3.60
440	2.34 · 10 <sup>5</sup> *	869.2	0.22	1.934	0.1128	12.7	0.0671	3.28
460	3.62 · 10 <sup>5</sup>	843.8	0.20	2.004	0.1099	10.6	0.0650	3.08
480	5.15 · 10 <sup>5</sup>	818.4	0.19	2.074	0.1070	8.68	0.0630	3.01
500	7.35 · 10 <sup>5</sup>	793.0	0.18	2.144	0.1041	7.04	0.0612	2.94
520	1.02 · 10 <sup>6</sup>	768.4	0.17	2.237	0.1005	5.60	0.0586	2.90
540	1.38 · 10 <sup>6</sup>	732.8	0.16	2.366	0.0966	4.45	0.0557	2.86
560	1.82 · 10 <sup>6</sup>	696.0	0.15	2.525	0.0924	3.49	0.0526	2.85
580	2.33 · 10 <sup>6</sup>	653.3	0.14	2.721	0.0869	2.80	0.0489	2.86

A.1.10: Ethyltrichlorosilane (C<sub>2</sub>H<sub>5</sub>)Cl<sub>3</sub>Si

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
240	135.6	1301	2.04	0.925	0.1347	30.4	0.1120	18.2
260	612	1280	1.025	0.989	0.1318	28.2	0.1041	9.85
280	2220	1260	0.722*	1.051	0.1289	26.0	0.0973	7.42
300	6510	1237	0.57*	1.121	0.1260	23.8	0.0909	6.28
320	$1.70 \cdot 10^4$ *	1212	0.48*	1.191	0.1231	21.6	0.0852	5.63
340	$3.84 \cdot 10^4$ *	1187	0.41*	1.261	0.1202	19.4	0.0803	5.11
360	$7.23 \cdot 10^4$ *	1162	0.36*	1.331	0.1173	17.2	0.0758	4.76
380	$1.27 \cdot 10^5$ *	1137	0.32*	1.401	0.1440	15.0	0.0718	4.46
400	$2.18 \cdot 10^5$	1112	0.29	1.471	0.1115	12.8	0.0682	4.25
420	$3.51 \cdot 10^5$	1087	0.26	1.541	0.1086	10.6	0.0648	4.01
440	$5.32 \cdot 10^5$	1062	0.23	1.611	0.1057	8.40	0.0618	3.72
460	$7.91 \cdot 10^5$	1037	0.21	1.681	0.1028	6.20	0.0590	3.56
480	$1.12 \cdot 10^6$	1012	0.20	1.751	0.0999	4.02	0.0564	3.55
500	$1.54 \cdot 10^6$	987.0	0.194	1.821	0.0970	2.20	0.0540	3.59
520	$2.08 \cdot 10^6$	957.2	0.188	1.975	0.0927	1.14	0.0490	3.86
540	$2.72 \cdot 10^6$	914.4	0.182	2.320	0.0878	0.44	0.0414	4.40
550	$3.03 \cdot 10^6$	882.2	0.179	2.760	0.0842	0.19	0.0346	5.18
560	$3.37 \cdot 10^6$	420.0	0.176	$\infty$	0.0493	0.00	0.00	$\infty$

A.1.11: Tetrachlorosilane SiCl<sub>4</sub>

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
210	135*	1623	3.46	0.768	0.1326	27.0	0.1064	32.5
220	220*	1607	2.78	0.778	0.1312	25.9	0.1049	26.5
240	1420*	1575	1.88	0.798	0.1283	23.7	0.1021	18.4
260	5100*	1542	1.32	0.818	0.1254	21.5	0.0994	13.3
280	$1.42 \cdot 10^4$ *	1507*	0.98*	0.838	0.1225	19.3	0.0970	10.1
300	$3.35 \cdot 10^4$ *	1470*	0.77*	0.858	0.1196	17.1	0.0948	8.12
320	$7.38 \cdot 10^4$ *	1430*	0.62	0.878	0.1167	14.9	0.0929	6.67
340	$1.38 \cdot 10^5$ *	1390*	0.52	0.898	0.1138	12.7	0.0912	5.70
360	$2.42 \cdot 10^5$	1348*	0.44	0.918	0.1109	10.5	0.0896	4.91
380	$4.01 \cdot 10^5$	1302*	0.39	0.939	0.1080	8.35	0.0883	4.41
400	$6.30 \cdot 10^5$	1252*	0.355	0.960	0.1051	6.76	0.0874	4.06
420	$9.40 \cdot 10^5$	1195*	0.330	0.982	0.1008	5.35	0.0859	3.84
440	$1.35 \cdot 10^6$	1135*	0.310	1.005	0.0948	4.08	0.0831	3.73
460	$1.89 \cdot 10^6$	1055*	0.290	1.060	0.0881	3.05	0.0788	3.68
480	$2.51 \cdot 10^6$	955*	0.275	1.222	0.0788	1.65	0.0675	4.07
500	$3.35 \cdot 10^6$	802*	0.265	1.707	0.0659	0.41	0.0481	5.51
507	$3.70 \cdot 10^6$	521	0.260	$\infty$	0.0540	0.00	0.00	$\infty$

A.1.12: Propyltrichlorosilane (C<sub>3</sub>H<sub>7</sub>)Cl<sub>3</sub>Si

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
220	7.91	1300	5.06	1.040	0.1242	29.8	0.0918	55.0
240	67.3	1280	3.32	1.080	0.1214	27.6	0.0878	37.8
260	263	1260	2.26	1.140	0.1186	25.4	0.0826	27.4
280	792*	1240	1.59*	1.200*	0.1158*	23.2	0.0777	20.4
300	2150*	1220	1.19*	1.260*	0.1130*	21.0	0.0734	16.2
320	5900*	1198	0.90*	1.328*	0.1102	18.8	0.0693	13.0
340	$1.41 \cdot 10^4$ *	1174	0.72*	1.396	0.1074	16.6	0.0655	11.0
360	$3.13 \cdot 10^4$ *	1150	0.59*	1.464	0.1046	14.4	0.0621	9.50
380	$5.85 \cdot 10^4$ *	1126	0.49*	1.532	0.1018	12.2	0.0590	8.30
400	$1.01 \cdot 10^5$ *	1102	0.43*	1.600	0.0990	10.0	0.0562	7.66
420	$1.82 \cdot 10^5$	1078	0.38	1.668	0.0962	7.90	0.0535	7.10
440	$2.94 \cdot 10^5$	1054	0.34	1.736	0.0934	6.13	0.0510	6.66
460	$4.24 \cdot 10^5$	1030	0.32	1.804	0.0906	4.80	0.0488	6.56
480	$6.36 \cdot 10^5$	1006	0.30	1.872	0.0878	3.63	0.0466	6.43
500	$8.92 \cdot 10^5$	982	0.28	1.940	0.0850	2.58	0.0446	6.27
520	$1.26 \cdot 10^6$	956	0.27	2.026	0.0810	1.66	0.0419	6.46
540	$1.68 \cdot 10^6$	923	0.26	2.166	0.0770	0.91	0.0385	6.75
560	$2.22 \cdot 10^6$	874	0.25	2.960	0.0716	0.30	0.0278	9.03
570	$2.60 \cdot 10^6$	826	0.25	3.800	0.0646	0.08	0.0212	11.8
574.0	$2.71 \cdot 10^6$	385.7	0.247	$\infty$	0.0514	0.00	0.00	$\infty$

A.1.13: Chloromethyltrichlorosilane (CH<sub>2</sub>Cl)Cl<sub>3</sub>Si

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
220	27.6	1600	3.01	0.828	0.1532	35.3	0.1156	26.0
240	138	1564	1.93	0.849	0.1504	33.1	0.1133	17.0
260	530	1528	1.31	0.870	0.1476	30.9	0.1110	11.8
280	1530	1492*	0.91*	0.891*	0.1448*	28.7*	0.1089	8.36
300	4050	1456*	0.68*	0.912*	0.1420*	26.5*	0.1068	6.40
320	9500	1420	0.525	0.933*	0.1392	24.3	0.1058	5.00
340	$2.06 \cdot 10^4$	1384	0.432	0.954*	0.1364	22.1	0.1073	4.19
360	$4.12 \cdot 10^4$	1348	0.345	0.975	0.1336	19.9	0.1017	3.40
380	$7.50 \cdot 10^4$ *	1312	0.29	0.996	0.1308	17.7	0.1001	2.89
400	$1.26 \cdot 10^5$ *	1276	0.25	1.018	0.1280	15.5	0.0985	2.54
420	$2.03 \cdot 10^5$	1240	0.22	1.038	0.1252	13.3	0.0973	2.25
440	$3.23 \cdot 10^5$	1204	0.20	1.060	0.1224	11.1	0.0959	2.08
460	$4.71 \cdot 10^5$	1168	0.18	1.088	0.1196	8.90	0.0941	1.91
480	$6.80 \cdot 10^5$	1132	0.17	1.118	0.1168	6.80	0.0923	1.84
500	$9.95 \cdot 10^5$	1096	0.16	1.068	0.1140	4.88	0.0891	1.80
520	$1.32 \cdot 10^6$	1048	0.15	1.210	0.1112	3.22	0.0877	1.71
540	$1.78 \cdot 10^6$	995	0.145	1.295	0.1066	1.94	0.0831	1.74
560	$2.40 \cdot 10^6$	925	0.14	1.435	0.1006	0.92	0.0760	1.84
570	$2.69 \cdot 10^6$	750	0.137	1.620	0.0920	0.33	0.0681	2.04
583.4	$3.23 \cdot 10^6$	465.7	0.136	$\infty$	0.0717	0.00	0.00	$\infty$

A.1.14: Mehtylphenyldichlorosilane  $(\text{CH}_3)(\text{C}_6\text{H}_5)\text{Cl}_2\text{Si}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
230	0.10	1266	6.63	1.100	0.1232	37.8	0.0885	74.9
240	0.26	1242	4.82	1.166	0.1204	35.7	0.0831	58.0
260	1.72	1218	3.71	1.234	0.1176	33.6	0.0782	47.4
280	11.9	1194	1.73*	1.302	0.1148	31.5	0.0738	23.4
300	77.0	1170	1.23*	1.370	0.1120	29.4	0.0699	17.6
320	305	1146	0.95*	1.438	0.1092	27.3	0.0663	14.3
340	865*	1122	0.78*	1.506	0.1064	25.2	0.0631	12.4
360	2080*	1098	0.65*	1.574	0.1036	23.1	0.0599	10.8
380	4600*	1074	0.56*	1.642	0.1008	21.0	0.0574	9.76
400	9600*	1050	0.48*	1.710	0.0980	18.9	0.0546	8.79
420	$1.91 \cdot 10^4$ *	1026	0.43*	1.778	0.0952	16.8	0.0522	8.24
440	$3.55 \cdot 10^4$ *	1002	0.38*	1.846	0.0924	14.7	0.0501	7.57
460	$6.46 \cdot 10^4$ *	978	0.34*	1.914	0.0896	12.6	0.0481	7.07
480	$1.06 \cdot 10^5$ *	954	0.30*	1.982	0.0868	10.5	0.0461	6.51
500	$1.65 \cdot 10^5$	930	0.27	2.050	0.0840	8.6	0.0441	6.13
520	$2.48 \cdot 10^5$	906	0.25	2.118	0.0812	6.98	0.0425	5.88
540	$3.60 \cdot 10^5$	882	0.23	2.186	0.0784	5.57	0.0409	5.62
560	$5.20 \cdot 10^5$	858	0.21	2.254	0.0756	4.43	0.0394	5.33
580	$7.00 \cdot 10^5$	834	0.195	2.322	0.0728	3.55	0.0378	5.16
600	$9.50 \cdot 10^5$	810	0.180	2.390	0.0700	2.84	0.0362	4.98
620	$1.30 \cdot 10^6$	786	0.170	2.458	0.0672	2.12	0.0348	4.89

A.1.15: Methylchloromethyldichlorosilane  $(\text{CH}_3)(\text{CHCl}_2)\text{Cl}_2\text{Si}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
240	19.7	1475	3.73	0.720	0.1044	37.4	0.0982	37.9
260	90.5	1451	2.07	0.788	0.1016	35.1	0.0889	23.3
280	334	1427*	1.45*	0.856*	0.0988*	32.8*	0.0809	17.9
300	1040	1403*	1.11*	0.924*	0.0960*	30.5*	0.0741	15.0
320	2800	1379	0.85	0.992*	0.0932	28.2	0.0681	12.6
340	6700	1355	0.68	1.060*	0.0904	25.9	0.0629	10.8
360	$1.46 \cdot 10^4$	1331	0.54	1.128	0.0876	23.6	0.0583	9.26
380	$2.92 \cdot 10^4$	1307	0.43	1.196	0.0848	21.3	0.0542	7.93
400	$5.47 \cdot 10^4$	1283	0.36	1.264	0.0820	19.0	0.0506	6.51
420	$9.63 \cdot 10^4$ *	1259	0.30	1.332	0.0792	16.7	0.0472	6.35
440	$1.61 \cdot 10^5$ *	1235	0.26	1.400	0.0764	14.4	0.0442	5.88
460	$2.28 \cdot 10^5$	1211	0.235	1.468	0.0736	12.1	0.0414	5.68
480	$3.97 \cdot 10^5$	1187	0.215	1.536	0.0708	9.80	0.0388	5.54
500	$5.90 \cdot 10^5$	1163	0.201	1.604	0.0680	7.50	0.0365	5.51
520	$8.51 \cdot 10^5$	1139	0.194	1.672	0.0652	5.48	0.0342	5.67
540	$1.19 \cdot 10^6$	1115	0.187	1.740	0.0624	3.77	0.0322	5.81
560	$1.64 \cdot 10^6$	1081	0.183	1.828	0.0596	2.33	0.0302	6.09
580	$2.19 \cdot 10^6$	1032	0.180	1.982	0.0558	1.19	0.0273	6.59
600	$2.88 \cdot 10^6$	936	0.177	2.457	0.0501	0.38	0.0218	8.12
615.1	$3.50 \cdot 10^6$	450	0.175	$\infty$	0.0414	0.00	0.00	$\infty$



A.1.16: Vinylphenyldichlorosilane (C<sub>2</sub>H<sub>3</sub>)(C<sub>6</sub>H<sub>5</sub>)Cl<sub>2</sub>Si

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
240	1.96	1240	5.92	1.039	0.1372	38.8	0.1065	55.6
260	9.85	1216	3.47	1.107	0.1344	36.7	0.0998	34.8
280	36.3	1192*	2.18*	1.175*	0.1316	34.6*	0.0940	23.2
300	119	1169*	1.42*	1.243*	0.1288	32.5*	0.0886	16.0
320	343	1145	1.05	1.311	0.1260	30.4	0.0839	12.5
340	837*	1122	0.79	1.379	0.1232	28.3	0.0796	9.92
360	1930*	1098	0.62	1.447	0.1204	26.2	0.0758	8.18
380	3950*	1075	0.50	1.515	0.1176	24.1	0.0722	6.92
400	7550*	1051	0.41	1.583	0.1148	22.0	0.0690	5.94
420	$1.53 \cdot 10^4$ *	1027	0.34	1.651	0.1120	19.9	0.0661	5.15
440	$2.57 \cdot 10^4$ *	1004	0.29	1.719	0.1092	17.8	0.0633	4.58
460	$4.33 \cdot 10^4$ *	980.2	0.25	1.787	0.1064	15.7	0.0607	4.12
480	$7.25 \cdot 10^4$ *	956.6	0.22	1.855	0.1036	13.6	0.0584	3.77
500	$1.17 \cdot 10^5$ *	933.0	0.20	1.923	0.1008	11.5	0.0562	3.56
520	$1.77 \cdot 10^5$	909.4	0.19	1.991	0.0980	9.45	0.0544	3.40
540	$2.57 \cdot 10^5$	885.8	0.17	2.059	0.0952	7.65	0.0526	3.23
560	$3.70 \cdot 10^5$	862.2	0.16	2.127	0.0924	6.05	0.0508	3.15
580	$5.10 \cdot 10^5$	838.6	0.15	2.195	0.0896	4.60	0.0490	3.06
600	$7.10 \cdot 10^5$	815.0	0.14	2.263	0.0868	3.45	0.0471	2.97
620	$9.50 \cdot 10^5$	791.4	0.13	2.331	0.0820	2.45	0.0445	2.92
640	$1.26 \cdot 10^6$	759.0	0.12	2.400	0.0761	1.60	0.0418	2.87

A.1.17: Ethylphenyldichlorosilane (C<sub>2</sub>H<sub>5</sub>)(C<sub>6</sub>H<sub>5</sub>)Cl<sub>2</sub>Si

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
240	0.10	1217	3.34	1.224	0.1287	31.6	0.0864	38.7
260	0.61	1193	2.41	1.288	0.1260	29.4	0.0820	29.4
280	3.45	1170*	1.78*	1.354*	0.1233*	27.2	0.0778	22.9
300	20.8	1146*	1.37*	1.420*	0.1206*	25.0	0.0741	18.5
320	80.0	1122	1.16*	1.486*	0.1179	22.8	0.0707	16.4
340	250	1099	0.88*	1.552*	0.1152	20.6	0.0675	13.0
360	650	1075	0.74*	1.618	0.1125	18.4	0.0647	11.4
380	1600	1052	0.63*	1.684	0.1098	16.2	0.0620	10.2
400	3750	1028	0.54	1.750	0.1071	14.0	0.0595	9.07
420	8176	1004	0.47	1.816	0.1044	11.9	0.0575	8.17
440	$1.67 \cdot 10^4$	980.8	0.42	1.882	0.1017	10.1	0.0555	7.57
460	$3.03 \cdot 10^4$	957.2	0.37	1.948	0.0990	8.55	0.0535	6.92
480	$5.36 \cdot 10^4$ *	933.6	0.33	2.014	0.0963	7.05	0.0515	6.41
500	$9.52 \cdot 10^4$ *	910.0	0.30	2.080	0.0936	5.75	0.0495	6.07
520	$1.42 \cdot 10^5$ *	886.4	0.28	2.146	0.0909	4.55	0.0478	5.86
540	$2.37 \cdot 10^5$	862.8	0.26	2.212	0.0882	3.55	0.0462	5.63
560	$3.58 \cdot 10^5$	839.2	0.24	2.278	0.0855	2.75	0.0447	5.37
580	$5.22 \cdot 10^5$	815.6	0.22	2.344	0.0828	2.05	0.0433	5.08
600	$7.46 \cdot 10^5$	795.0	0.21	2.410	0.0801	1.45	0.0418	5.02
620	$1.04 \cdot 10^6$	771.4	0.19	2.528	0.0770	0.95	0.0395	4.81
640	$1.44 \cdot 10^6$	747.8	0.18	2.841	0.0707	0.55	0.0333	5.41
660	$1.95 \cdot 10^6$	704.2	0.17	3.254	0.0612	0.19	0.0267	6.37

A.1.18: Phenyltrichlorosilane (C<sub>6</sub>H<sub>5</sub>)Cl<sub>3</sub>Si

<i>T</i> , K	<i>p</i> , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	<i>c<sub>p</sub></i> , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
250	0.3	1385	4.9	0.926	0.1201	34.4	0.0936	52.4
260	0.8	1362	4.0	0.992	0.1174	32.2	0.0869	46.0
280	6.9	1339*	3.68	1.058*	0.1147*	30.0*	0.0810	45.4
300	59.3	1316*	1.90	1.124*	0.1120*	27.8*	0.0757	25.1
320	257	1293	1.35	1.190*	0.1093	25.6*	0.0718	18.8
340	750	1270	1.01	1.256*	0.1066	23.4*	0.0679	14.9
360	2370	1246	0.77	1.322	0.1039	21.2*	0.0641	12.0
380	6500	1223	0.61*	1.388	0.1012	19.0*	0.0603	10.1
400	1.20 · 10 <sup>4</sup>	1200	0.52*	1.454	0.0985	16.8	0.0565	9.20
420	2.37 · 10 <sup>4</sup>	1177	0.46*	1.520	0.0958	14.6	0.0540	8.52
440	4.25 · 10 <sup>4</sup>	1154	0.41*	1.586	0.0931	12.4	0.0515	7.96
460	7.15 · 10 <sup>4</sup>	1130	0.37*	1.652	0.0904	10.2	0.0490	7.55
480	1.15 · 10 <sup>4</sup> *	1107	0.34*	1.718	0.0877	8.21	0.0465	7.31
500	1.73 · 10 <sup>5</sup>	1084	0.32	1.784	0.0850	6.59	0.0440	7.27
520	2.54 · 10 <sup>5</sup>	1061	0.30	1.850	0.0823	5.32	0.0422	7.11
540	3.62 · 10 <sup>5</sup>	1038	0.28	1.916	0.0796	4.49	0.0404	6.93
560	4.81 · 10 <sup>5</sup>	1014	0.26	1.982	0.0769	3.73	0.0386	6.74
580	6.48 · 10 <sup>5</sup>	991	0.24	2.048	0.0742	3.02	0.0367	6.54
600	8.65 · 10 <sup>5</sup>	968	0.22	2.114	0.0715	2.36	0.0349	6.30
620	1.10 · 10 <sup>6</sup>	945	0.20	2.180	0.0688	1.77	0.0334	6.01
640	1.40 · 10 <sup>6</sup>	922	0.18	2.306	0.0661	1.21	0.0311	5.79

A.1.19: Trichloromethyldichlorosilane (CHCl<sub>2</sub>)Cl<sub>3</sub>Si

<i>T</i> , K	<i>p</i> , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	<i>c<sub>p</sub></i> , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
250	29.3	1684	3.77	0.703	0.1168	38.8	0.0987	38.2
260	68.6	1652	3.05	0.736	0.1141	36.5	0.0938	32.5
280	301	1619*	2.12	0.802	0.1114*	34.2	0.0858	24.7
300	1100	1584*	1.55	0.868*	0.1087*	31.9	0.0791	19.6
320	3200	1549	1.16	0.934*	0.1060	29.6	0.0733	15.9
340	7495	1514	0.91	1.000*	0.1033	27.3	0.0682	13.4
360	1.66 · 10 <sup>4</sup>	1479	0.75	1.066*	0.1006	25.0	0.0638	11.8
380	3.34 · 10 <sup>4</sup>	1444	0.62	1.132	0.0979	22.7	0.0600	10.4
400	6.20 · 10 <sup>4</sup> *	1409	0.53	1.198	0.0952	20.4	0.0564	9.40
420	1.08 · 10 <sup>5</sup> *	1374	0.46	1.264	0.0925	18.1	0.0533	8.65
440	1.74 · 10 <sup>5</sup>	1339	0.41	1.330	0.0898	15.8	0.0504	8.13
460	2.74 · 10 <sup>5</sup>	1304	0.37	1.396	0.0871	13.5	0.0480	7.71
480	4.14 · 10 <sup>5</sup>	1269	0.34	1.462	0.0844	11.2	0.0455	7.47
500	6.04 · 10 <sup>5</sup>	1234	0.32	1.528	0.0817	8.90	0.0433	7.39
520	8.35 · 10 <sup>5</sup>	1199	0.30	1.594	0.0790	6.66	0.0413	7.26
540	1.15 · 10 <sup>6</sup>	1164	0.28	1.668	0.0763	4.72	0.0393	7.12
560	1.50 · 10 <sup>6</sup>	1118	0.270	1.804	0.0730	3.05	0.0362	7.46
580	1.97 · 10 <sup>6</sup>	1054	0.265	2.015	0.0681	1.68	0.0321	8.26
600	2.55 · 10 <sup>6</sup>	902	0.260	2.491	0.0598	0.58	0.0266	9.78
610.9	2.88 · 10 <sup>6</sup>	490.7	0.258	∞	0.0473	0.00	0.00	∞

A.1.20: Methylphenyldichlorosilane (C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>Cl<sub>2</sub>Si

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	—	1256	14.7	0.898	0.1188	44.1	0.1053	140
280	0.015	1235*	7.45*	0.962*	0.1162*	41.8*	0.0978	76.2
300	0.176	1214*	4.35*	1.028*	0.1136*	39.5*	0.0910	47.8
320	1.05	1192	2.77*	1.094*	0.1110*	37.2*	0.0851	32.5
340	5.35	1172	1.93*	1.160*	0.1084	34.9*	0.0797	24.2
360	31.20	1150	1.45*	1.226	0.1058	32.6*	0.0750	19.3
380	112*	1129	1.13*	1.292	0.1032	30.3*	0.0707	16.0
400	307*	1108	0.89*	1.358	0.1006	28.0*	0.0669	13.3
420	785*	1087	0.73*	1.424	0.0980	25.7*	0.0633	11.5
440	1830*	1066	0.59*	1.490	0.0954	23.4*	0.0601	9.82
460	4100*	1044	0.50*	1.556	0.0928	21.1*	0.0571	8.75
480	8350*	1023	0.43*	1.622	0.0902	18.9*	0.0544	7.91
500	$1.53 \cdot 10^{4*}$	1002	0.37*	1.688	0.0876	16.8*	0.0518	7.14
520	$2.66 \cdot 10^{4*}$	980.8	0.33*	1.754	0.0850	15.0*	0.0494	6.68
540	$4.42 \cdot 10^{4*}$	959.6	0.29*	1.820	0.0824	13.4*	0.0472	6.15
560	$6.96 \cdot 10^{4*}$	938.4	0.26*	1.886	0.0798	11.9*	0.0451	5.77
580	$1.06 \cdot 10^{5*}$	917.2	0.23*	1.952	0.0772	10.4*	0.0431	5.33
600	$1.56 \cdot 10^5$	896.0	0.21	2.018	0.0746	8.98	0.0413	5.09
620	$2.26 \cdot 10^5$	874.8	0.19	2.084	0.0720	7.64	0.0395	4.81
640	$3.18 \cdot 10^5$	853.6	0.17	2.150	0.0694	6.42	0.0378	4.50
660	$4.38 \cdot 10^5$	832.4	0.16	2.216	0.0668	5.25	0.0362	4.42
680	$5.79 \cdot 10^5$	811.2	0.15	2.282	0.0642	4.16	0.0347	4.33

## A.2: Oxysilanes

A.2.1: Trimethylethoxysilane  $(\text{CH}_3)_3(\text{C}_2\text{H}_5\text{O})\text{Si}$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	14.2	897	4.60	1.7200	0.1325	23.5	0.0858	53.7
220	106*	867	2.41	1.7934	0.1294	21.8	0.0832	29.0
240	550*	837	1.42	1.8668	0.1263	20.1	0.0808	17.6
260	2080*	807	0.96	1.9402	0.1232	18.4	0.0787	12.2
280	6450*	777*	0.71*	2.0136	0.1201	16.7*	0.0768	9.25
300	$1.62 \cdot 10^4$ *	747*	0.56*	2.0870	0.1170	15.0*	0.0750	7.46
320	$3.77 \cdot 10^4$ *	717	0.47	2.1604	0.1139	13.3	0.0735	6.39
340	$7.47 \cdot 10^4$ *	687	0.39	2.2338	0.1180	11.6	0.0722	5.40
360	$1.39 \cdot 10^5$ *	657	0.34	2.3072	0.1077	9.90	0.0711	4.79
380	$2.38 \cdot 10^5$ *	627	0.29	2.3806	0.1046	8.20	0.0701	4.14
400	$3.85 \cdot 10^5$ *	597	0.254	2.4540	0.1015	6.50	0.0693	3.67
420	$5.95 \cdot 10^5$	563	0.240	2.5274	0.0984	4.80	0.0692	3.47
440	$8.87 \cdot 10^5$	534	0.222	2.6008	0.0953	3.25	0.0686	3.24
460	$1.26 \cdot 10^6$	486	0.210	2.9081	0.0922	1.98	0.0652	3.22
480	$1.73 \cdot 10^6$	432	0.202	3.6184	0.0963	0.99	0.0552	3.66
500	$2.30 \cdot 10^6$	360	0.196	4.2425	0.0712	0.34	0.0466	4.20
506.5	$2.52 \cdot 10^6$	284	0.194	$\infty$	0.0652	0.00	0.00	$\infty$

A.2.2: Triethoxysilane  $(\text{C}_2\text{H}_5\text{O})_3\text{HSi}$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
120	—	1122	1520	1.190	0.1806	28.8	0.1353	$1.1 \cdot 10^4$
140	—	1096	162	1.240	0.1777	27.1	0.1308	1240
160	—	1070	33.1	1.295	0.1748	25.4	0.1262	262
180	0.004	1044	12.2	1.355	0.1719	23.7	0.1215	100
200	0.078	1018	7.42	1.418	0.1690	22.0	0.1171	63.4
220	0.58	992	4.45	1.488	0.1661	20.3	0.1125	39.5
240	8.08	966	2.90	1.558	0.1632	18.6	0.1084	26.7
260	48.1	940	1.99	1.628	0.1603	16.9	0.1047	19.0
280	222	914	1.46	1.698*	0.1574*	15.2	0.1014	14.4
300	834	888	1.16	1.768*	0.1545	13.5	0.0984	11.8
320	2660	862	0.94	1.838*	0.1516	11.8	0.0961	9.78
340	7400	836	0.78	1.908	0.1487	10.7	0.0938	8.32
360	$1.84 \cdot 10^4$	810	0.66	1.978	0.1458	8.40	0.0916	7.21
380	$4.15 \cdot 10^4$	784	0.58	2.048	0.1429	6.80	0.0894	6.49
400	$8.62 \cdot 10^4$ *	758	0.53	2.118	0.1400	5.40	0.0872	6.08
420	$1.67 \cdot 10^5$ *	732	0.49	2.188	0.1371	4.08	0.0856	5.72
440	$3.05 \cdot 10^5$	706	0.45	2.258	0.1342	2.93	0.0842	5.35
460	$5.29 \cdot 10^5$	680	0.42	2.465	0.1310	1.92	0.0781	5.37
480	$8.62 \cdot 10^5$	649	0.40	2.666	0.1255	1.05	0.0725	5.52
500	$1.39 \cdot 10^6$	603	0.38	3.146	0.1124	0.43	0.0593	6.41
517.5	$2.03 \cdot 10^6$	294.2	0.37	$\infty$	0.086	0.00	0.00	$\infty$

A.2.3: Ethyltriethoxysilane  $(C_2H_5)(C_2H_5O)_3Si$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
200	0.001	1033	10.6	1.507	0.1696	24.5	0.1089	97.3
220	0.06	1009	6.66	1.576	0.1668	23.0	0.1049	63.5
240	1.05	985	4.17	1.644	0.1640	21.5	0.1013	41.2
260	10.50	961	2.78	1.713	0.1612	20.0	0.0979	28.4
280	66.30	937*	1.98	1.781*	0.1584	18.5	0.0949	20.8
300	313	913*	1.48	1.849*	0.1556*	17.0	0.0922	16.1
320	1080*	889	1.14	1.918	0.1528*	15.5	0.0896	12.7
340	3030*	865	0.91	1.986	0.1500	14.0	0.0873	10.42
360	802*	841	0.73	2.055	0.1472	12.5	0.0852	8.56
380	$1.83 \cdot 10^4$ *	817	0.61	2.123	0.1444	11.0	0.0833	7.33
400	$3.77 \cdot 10^4$ *	793	0.53	2.191	0.1416	9.50	0.0815	6.50
420	$6.81 \cdot 10^4$ *	769	0.48	2.260	0.1388	8.00	0.0799	6.01
440	$1.17 \cdot 10^5$ *	745	0.43	2.328	0.1360	6.55	0.0784	5.48
460	$1.92 \cdot 10^5$	721	0.40	2.397	0.1332	5.25	0.0771	5.19
480	$3.06 \cdot 10^5$	697	0.37	2.465	0.1304	4.01	0.0759	4.88
500	$4.55 \cdot 10^5$	673	0.35	2.533	0.1276	2.88	0.0749	4.68
520	$6.55 \cdot 10^5$	649	0.33	2.663	0.1248	1.92	0.0722	4.58
540	$9.33 \cdot 10^5$	617	0.31	2.872	0.1198	1.14	0.0676	4.59
560	$1.27 \cdot 10^6$	578	0.30	3.189	0.1113	0.52	0.0604	4.98
580	$1.69 \cdot 10^6$	510	0.29	4.48	0.0890	0.15	0.0390	7.47
587.3	$1.87 \cdot 10^6$	282.8	0.287	$\infty$	0.0813	0.00	0.00	$\infty$

A.2.4: Trimethoxyphenoxysilane  $(CH_3O)_3(C_6H_5O)Si$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
200	—	1212	96.0	1.463	0.1350	31.5	0.0761	1260
220	—	1189	20.4	1.503	0.1323	29.9	0.0740	276
240	0.03	1166	8.41*	1.598	0.1296	28.3	0.0696	121
260	0.33	1143	4.20*	1.665	0.1269	26.7	0.0667	63.0
280	1.63	1120*	2.56*	1.733	0.1242	25.1	0.0639	40.0
300	10.6	1097*	1.71*	1.800	0.1215	23.5	0.0615	27.8
320	61.9	1074	1.19*	1.867	0.1188	21.9	0.0594	20.0
340	240	1051	0.88	1.935	0.1161	20.3	0.0574	15.3
360	705*	1028	0.68	2.002	0.1134	18.7	0.0554	12.3
380	1840*	1005	0.54	2.070	0.1107	17.1	0.0534	10.1
400	4350*	982	0.44	2.137	0.1080	15.5	0.0515	8.55
420	9410*	959	0.37	2.204	0.1053	13.9	0.0500	7.40
440	$1.90 \cdot 10^4$ *	936	0.32	2.272	0.1026	12.3	0.0485	6.60
460	$3.37 \cdot 10^4$ *	913	0.28	2.339	0.0999	10.7	0.0460	6.09
480	$5.95 \cdot 10^4$ *	890	0.25	2.407	0.0972	9.10	0.0455	5.49
500	$1.03 \cdot 10^5$ *	867	0.23	2.474	0.0945	7.50	0.0441	5.22
520	$1.66 \cdot 10^5$	844	0.22	2.541	0.0918	5.98	0.0429	5.13
540	$2.55 \cdot 10^5$	821	0.21	2.609	0.0891	4.71	0.0417	5.04
560	$3.80 \cdot 10^5$	798	0.20	2.676	0.0864	3.70	0.0405	4.94
580	$5.51 \cdot 10^5$	775	0.19	2.744	0.0837	2.84	0.0394	4.82
600	$7.65 \cdot 10^5$	752	0.18	2.811	0.0810	2.04	0.0383	4.70
620	$1.05 \cdot 10^6$	729	0.17	2.880	0.0783	1.36	0.0373	4.56

A.2.5: Methylphenylethoxysilane  $(\text{CH}_3)(\text{C}_6\text{H}_5)_2(\text{C}_2\text{H}_5\text{O})\text{Si}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
250	—	1053	3.98	1.745	0.1292	27.7	0.0703	56.6
260	—	1043	3.40	1.778	0.1279	27.0	0.0690	49.3
280	0.001	1033*	2.28	1.844	0.1253	25.6	0.0658	34.7
300	0.04	1011*	1.62	1.900	0.1227	24.2	0.0635	25.5
320	0.50	989	1.16	1.976	0.1201	22.8	0.0616	18.8
340	4.20	967	0.86	2.042	0.1175	21.4	0.0598	14.4
360	30.3	945	0.67	2.108	0.1149	20.0	0.0580	11.6
380	117*	923	0.53	2.174	0.1123	18.6	0.0562	9.43
400	366*	901	0.43	2.240	0.1097	17.2	0.0544	7.91
420	1040*	879	0.36	2.306	0.1071	15.8	0.0530	6.79
440	2480*	857	0.31	2.372	0.1045	14.4	0.0516	6.01
460	5350*	835	0.26	2.438	0.1019	13.0	0.0503	5.17
480	$1.07 \cdot 10^4$ *	813	0.23	2.504	0.0993	11.6	0.0490	4.69
500	$2.15 \cdot 10^4$ *	791	0.20	2.570	0.0967	10.2	0.0477	4.20
520	$3.85 \cdot 10^4$ *	769	0.182	2.636	0.0941	8.80	0.0466	3.91
540	$4.10 \cdot 10^4$ *	747	0.166	2.702	0.0915	7.45	0.0455	3.65
560	$7.10 \cdot 10^4$ *	725	0.152	2.768	0.0889	6.24	0.0444	3.42
580	$1.12 \cdot 10^5$	703	0.142	2.834	0.0863	5.15	0.0434	3.27
600	$2.49 \cdot 10^5$	681	0.133	2.900	0.0837	4.18	0.0424	3.14
620	$3.57 \cdot 10^5$	659	0.126	2.966	0.0811	3.34	0.0415	3.04
640	$4.95 \cdot 10^5$	637	0.120	3.098	0.0785	2.62	0.0398	3.02

A.2.6: Triethoxycresoxysilane  $(\text{C}_2\text{H}_5\text{O})(\text{C}_6\text{H}_4\text{OCH}_3)\text{Si}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
240	0.003	1068	26.1*	1.6594	0.1275	22.4	0.0719	363
260	0.025	1048	9.6*	1.7246	0.1249	21.1	0.0691	139
280	0.24	1028*	5.2*	1.7898	0.1223	19.8	0.0665	78.2
300	2.33	1008*	3.03*	1.8550	0.1197	18.5	0.0640	47.3
320	12.2	987.4	1.96*	1.9202	0.1170	17.2	0.0620	31.6
340	48.5	966.8	1.38	1.9854	0.1144	15.9	0.0600	23.0
360	158	946.2	1.05	2.0506	0.1118	14.6	0.0580	18.1
380	455*	925.6	0.84	2.1158	0.1092	13.3	0.0560	15.0
400	1180*	905.0	0.68	2.1810	0.1066	12.0	0.0540	12.6
420	2830*	884.4	0.56	2.2462	0.1039	10.7	0.0523	10.7
440	6550*	863.8	0.47	2.3114	0.1013	9.40	0.0508	9.25
460	$1.31 \cdot 10^4$ *	843.2	0.41	2.3766	0.0987	8.12	0.0493	8.32
480	$2.31 \cdot 10^4$ *	822.6	0.36	2.4418	0.0961	6.95	0.0478	7.52
500	$3.98 \cdot 10^4$ *	802.0	0.32	2.5070	0.0935	5.81	0.0465	6.88
520	$6.76 \cdot 10^4$ *	781.4	0.29	2.5722	0.0908	4.79	0.0452	6.42
540	$1.14 \cdot 10^5$ *	760.8	0.26	2.6374	0.0882	3.88	0.0440	5.91
560	$1.78 \cdot 10^5$	740.2	0.24	2.7026	0.0856	3.07	0.0428	5.61
580	$2.70 \cdot 10^5$	719.6	0.22	2.7678	0.0830	2.37	0.0417	5.28
600	$3.98 \cdot 10^5$	699.0	0.21	2.8930	0.0804	1.83	0.0398	5.28
620	$5.75 \cdot 10^5$	678.4	0.20	3.075	0.0788	1.33	0.0378	5.29
640	$8.08 \cdot 10^5$	647.8	0.19	3.287	0.0741	0.89	0.0348	5.46
660	$1.09 \cdot 10^6$	632.3	0.18	3.581	0.0675	0.51	0.0298	6.04

A.2.7: Isopropoxyisobutoxysilane  $(\text{CH}_3\text{O})_2(\text{C}_4\text{H}_9\text{O})_2\text{Si}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	—	944	36.3	1.600	0.1038	23.3	0.06872	528
220	0.000	924	12.6	1.665	0.1012	22.0	0.0658	192
240	0.005	904	5.95	1.729	0.0987	20.7	0.0631	94.2
260	0.05	884	3.65	1.794	0.0961	19.4	0.0606	60.2
280	0.35	864*	2.35*	1.858*	0.0936*	18.1	0.0583	40.3
300	1.89	844*	1.61*	1.923*	0.0910*	16.8	0.0561	28.7
320	8.36	824	1.17	1.988	0.0884	15.5	0.0540	21.7
340	31.10	804	0.88	2.052	0.0859	14.2	0.0521	16.9
360	100	784	0.68	2.117	0.0833	12.9	0.0502	13.5
380	283	764	0.57	2.181	0.0808	11.6	0.0485	11.8
400	724	744	0.46	2.246	0.0782	10.3	0.0468	9.83
420	1695	724	0.39	2.311	0.0756	9.04	0.0452	8.63
440	3670	704	0.33	2.375	0.0731	7.92	0.0437	7.55
460	7430	684	0.29	2.440	0.0705	6.84	0.0422	6.86
480	$1.42 \cdot 10^4$	664	0.26	2.504	0.0680	5.86	0.0409	6.36
500	$2.57 \cdot 10^{4*}$	644	0.24	2.570	0.0654	5.00	0.0395	6.07
520	$4.45 \cdot 10^{4*}$	624	0.22	2.634	0.0628	4.22	0.0382	5.76
540	$7.40 \cdot 10^4$	604	0.20	2.698	0.0603	3.52	0.0370	5.41
560	$1.18 \cdot 10^5$	584	0.19	2.763	0.0577	2.85	0.0358	5.31
580	$1.84 \cdot 10^5$	564	0.18	2.827	0.0552	2.25	0.0346	5.20
600	$2.78 \cdot 10^5$	544	0.17	2.892	0.0526	1.71	0.0334	5.08
620	$4.07 \cdot 10^5$	524	0.16	2.986	0.0500	1.20	0.0320	5.01

A.2.8: Dimethoxydicrosoxysilane  $(\text{CH}_3\text{O})_2(\text{C}_6\text{H}_4\text{OCH}_3)_2\text{Si}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
220	—	1164	223	1.525	0.1313	27.4	0.0740	3015
240	—	1146	48.5*	1.589	0.1288	26.1	0.0707	686
260	—	1128	14.2*	1.654	0.1263	25.8	0.0677	210
280	0.008	1109*	6.5*	1.718	0.1238	24.5	0.0650	100
300	0.078	1090*	3.8*	1.782	0.1213	23.2	0.0624	60.8
320	0.533	1071	2.6*	1.846	0.1188	21.9	0.0602	43.2
340	2.78	1051	1.85	1.910	0.1162	20.6	0.0579	31.9
360	11.70	1031	1.37	1.975	0.1138	19.3	0.0560	24.5
380	41.50	1012	1.03	2.039	0.1113	18.0	0.0538	19.1
400	127	992.0	0.82	2.103	0.1088	16.7	0.0521	15.8
420	344	972.4	0.66	2.176	0.1063	15.4	0.0506	13.0
440	843*	952.8	0.55	2.231	0.1038	14.1	0.0492	11.2
460	1800*	933.2	0.47	2.296	0.1013	12.8	0.0474	9.92
480	3940*	913.6	0.40	2.360	0.0988	11.5	0.0456	8.77
500	7680*	894.0	0.35	2.424	0.0963	10.2	0.0443	7.91
520	$1.42 \cdot 10^{4*}$	874.4	0.32	2.488	0.0938	9.05	0.0429	7.46
540	$2.48 \cdot 10^{4*}$	854.8	0.29	2.552	0.0913	7.88	0.0416	6.97
560	$4.17 \cdot 10^{4*}$	835.2	0.26	2.617	0.0888	6.82	0.0404	6.43
580	$6.68 \cdot 10^{4*}$	815.6	0.24	2.681	0.0863	5.77	0.0392	6.12
600	$1.05 \cdot 10^{5*}$	796.0	0.23	2.745	0.0838	4.85	0.0381	6.04
620	$1.58 \cdot 10^5$	776.4	0.21	2.809	0.0813	4.01	0.0370	5.68
640	$2.33 \cdot 10^5$	756.8	0.20	2.873	0.0788	3.83	0.0361	5.53

A.2.9: Methoxytriphenoxysilane  $(\text{CH}_3\text{O})(\text{C}_6\text{H}_5\text{O})_3\text{Si}$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
220	—	1219	1710	1.464	0.1331	30.2	0.0746	$2.3 \cdot 10^4$
240	—	1203	303*	1.527	0.1306	29.0	0.0711	4263
260	—	1184	59.7*	1.591	0.1281	27.8	0.0680	878
280	—	1165*	18.2*	1.654	0.1256	26.6	0.0652	279
300	0.004	1146*	7.95*	1.717	0.1231	25.4	0.0626	127
320	0.035	1127	3.38*	1.780	0.1206	25.2	0.0602	56.1
340	0.22	1108	1.72	1.843	0.1181	23.0	0.0581	29.6
360	1.13	1089	1.03	1.907	0.1156	21.8	0.0560	18.4
380	4.72	1070	0.78	1.970	0.1131	20.6	0.0538	14.5
400	16.70	1051	0.60	2.033	0.1106	19.4	0.0518	11.6
420	51.50	1032	0.46	2.096	0.1081	18.2	0.0500	9.21
440	142	1013	0.38	2.159	0.1056	17.0	0.0483	7.87
460	353	994	0.32	2.223	0.1031	15.8	0.0467	6.80
480	807*	975	0.27	2.286	0.1006	14.6	0.0422	6.11
500	1716*	956	0.23	2.349	0.0981	13.4	0.0437	5.27
520	3420*	937	0.20	2.412	0.0956	12.2	0.0423	4.73
540	6450*	918	0.18	2.475	0.0931	11.0	0.0410	4.39
560	$1.16 \cdot 10^{4*}$	899	0.16	2.539	0.0906	9.8	0.0397	4.03
580	$1.98 \cdot 10^{4*}$	880	0.15	2.602	0.0881	8.6	0.0385	3.90
600	$3.27 \cdot 10^{4*}$	861	0.14	2.665	0.0856	7.4	0.0373	3.75
620	$5.21 \cdot 10^{4*}$	842	0.13	2.728	0.0831	6.9	0.0362	3.59
640	$8.05 \cdot 10^{4*}$	823	0.12	2.791	0.0806	5.2	0.0351	3.42

A.2.10: Tri-n-butoxyphenoxysilane  $(\text{C}_4\text{H}_9\text{O})_3(\text{C}_6\text{H}_5\text{O})\text{Si}$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
220	—	1035	48.1	1.459	0.1332	24.3	0.0882	545
240	—	1016	16.6*	1.522	0.1307	23.2	0.0845	196
260	—	997	8.11*	1.585	0.1282	22.1	0.0811	100
280	—	978*	4.45*	1.648	0.1257	21.0	0.0780	57.1
300	0.004	959*	2.80*	1.712	0.1232	19.9	0.0751	37.3
320	0.084	940	1.98*	1.775	0.1207	18.8	0.0724	27.3
340	0.93	921	1.48	1.838	0.1182	17.7	0.0700	21.1
360	7.75	902	1.17	1.901	0.1157	16.6	0.0676	17.3
380	36.3	883	0.91	1.964	0.1132	15.5	0.0652	14.0
400	125	864	0.74	2.028	0.1107	14.4	0.0632	11.7
420	375	845	0.60	2.091	0.1082	13.3	0.0614	9.77
440	1005*	826	0.50	2.154	0.1057	12.2	0.0596	8.34
460	2500*	807	0.43	2.217	0.1032	11.1	0.0579	7.43
480	5250*	788	0.37	2.280	0.1007	10.0	0.0562	6.58
500	$1.05 \cdot 10^{4*}$	769	0.33	2.344	0.0982	8.90	0.0545	6.06
520	$1.90 \cdot 10^{4*}$	750	0.29	2.407	0.0957	7.79	0.0530	5.47
540	$3.31 \cdot 10^{4*}$	731	0.26	2.470	0.0932	6.72	0.0516	5.04
560	$5.22 \cdot 10^{4*}$	712	0.24	2.533	0.0907	5.79	0.0503	4.77
580	$8.20 \cdot 10^{4*}$	693	0.22	2.596	0.0882	4.92	0.0490	4.49
600	$1.22 \cdot 10^{5*}$	674	0.207	2.660	0.0857	4.12	0.0478	4.33
620	$1.77 \cdot 10^5$	655	0.196	2.723	0.0832	3.46	0.0467	4.20
640	$2.47 \cdot 10^5$	636	0.185	2.786	0.0807	2.83	0.0455	4.06



A.2.11: Isodibutoxydiphenoxysilane  $(C_4H_9O)_2(C_6H_5O)_2Si$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
240	—	1071	117*	1.483	0.1317	23.1	0.0829	1410
260	—	1055	23.5*	1.545	0.1292	22.0	0.0792	297
280	0.009	1039*	10.1*	1.608	0.1268	20.9	0.0759	133
300	0.063	1021*	5.47*	1.671	0.1243	19.8	0.0729	75.1
320	0.357	1003	3.54*	1.734	0.1218	18.7	0.0701	50.5
340	1.91	985	2.46	1.797	0.1194	17.6	0.0675	36.4
360	7.27	967	1.78	1.859	0.1169	16.5	0.0649	27.4
380	21.70	949	1.40	1.922	0.1145	15.4	0.0626	22.4
400	65.80	931	1.11	1.985	0.1120	14.3	0.0606	18.3
420	178	913	0.89	2.048	0.1095	13.2	0.0588	15.1
440	431	985	0.75	2.111	0.1071	12.1	0.0570	13.2
460	975	877	0.63	2.173	0.1046	11.03	0.0552	11.4
480	2060*	859	0.55	2.236	0.1022	9.90	0.0534	10.3
500	4170*	841	0.49	2.299	0.0997	8.81	0.0516	9.50
520	7910*	823	0.44	2.362	0.0972	7.71	0.0501	8.78
540	$1.43 \cdot 10^4*$	805	0.39	2.425	0.0948	6.66	0.0486	8.02
560	$2.48 \cdot 10^4*$	787	0.36	2.487	0.0923	5.65	0.0472	7.63
580	$4.14 \cdot 10^4*$	769	0.33	2.550	0.0899	4.75	0.0458	7.21
600	$6.68 \cdot 10^4*$	751	0.31	2.613	0.0874	3.95	0.0445	6.96
620	$1.05 \cdot 10^5*$	733	0.29	2.676	0.0849	3.21	0.0433	6.70
640	$1.62 \cdot 10^5*$	715	0.28	2.739	0.0825	2.58	0.0421	6.65
660	$2.42 \cdot 10^5$	697	0.27	2.801	0.0800	2.23	0.0410	6.59

A.2.12: n-Butoxytriphenoxysilane  $(C_4H_9O)(C_6H_5O)_3Si$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
240	—	1126	165*	1.448	0.1328	25.8	0.0814	2026
260	—	1108	45.1*	1.511	0.1304	24.6	0.0779	579
280	—	1090*	17.8*	1.573	0.1279	23.4	0.0746	239
300	0.006	1072*	7.07*	1.635	0.1255	22.2	0.0716	98.7
320	0.038	1054	3.78	1.697	0.1231	21.0	0.0690	54.8
340	0.203	1036	2.27	1.759	0.1206	19.8	0.0662	34.3
360	0.897	1018	1.49	1.822	0.1182	18.6	0.0635	23.5
380	3.39	1000	1.06	1.884	0.1157	17.4	0.0613	17.3
400	11.62	982	0.81	1.946	0.1133	16.2	0.0593	13.7
420	33.20	964	0.65	2.008	0.1109	15.0	0.0573	11.3
440	88.80	946	0.54	2.070	0.1084	13.8	0.0554	9.75
460	218	928	0.45	2.133	0.1060	12.6	0.0538	8.40
480	497	910	0.39	2.195	0.1035	11.4	0.0518	7.53
500	1060*	892	0.34	2.257	0.1011	10.2	0.0502	6.77
520	2140*	870	0.30	2.319	0.0987	9.00	0.0488	6.15
540	4090*	856	0.27	2.381	0.0962	7.80	0.0474	5.70
560	7460*	838	0.25	2.444	0.0938	6.62	0.0460	5.43
580	$1.31 \cdot 10^4*$	820	0.23	2.506	0.0913	5.56	0.0446	5.16
600	$2.20 \cdot 10^4*$	802	0.21	2.568	0.0889	4.62	0.0432	4.86
620	$3.59 \cdot 10^4*$	784	0.19	2.630	0.0865	3.80	0.0419	4.53
640	$5.68 \cdot 10^4*$	766	0.18	2.692	0.0840	3.13	0.0407	4.30
660	$8.74 \cdot 10^4*$	748	0.17	2.755	0.0816	2.57	0.0396	4.17

A.2.13: Phenyldiphenoxycresoxysilane (C<sub>6</sub>H<sub>5</sub>)(C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>)Si

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
250	—	1177	603	1.280	0.1529	28.0	0.1015	5940
260	—	1168	224	1.300	0.1516	27.4	0.0998	2245
280	—	1151*	63.5*	1.340*	0.1489*	26.2	0.0965	658
300	0.002	1134*	15.4*	1.385*	0.1462*	25.0	0.0931	165
320	0.015	1117*	6.45*	1.435*	0.1435*	23.8	0.0896	72.0
340	0.083	1099*	3.69*	1.485*	0.1408*	22.6	0.0865	42.7
360	0.372	1081*	2.39*	1.535*	0.1380*	21.4	0.0835	28.6
380	1.43	1063*	1.15*	1.585*	0.1352*	20.2	0.0805	14.3
400	5.14	1045*	0.86*	1.635*	0.1324*	19.0	0.0775	11.1
420	14.40	1027*	0.67*	1.685*	0.1296*	17.8	0.0750	8.93
440	41.30	1009*	0.55*	1.735*	0.1268*	16.6	0.0725	7.59
460	106	991*	0.46	1.785*	0.1240*	15.4	0.0700	6.57
480	223	973*	0.39	1.835*	0.1212*	14.2	0.0675	5.78
500	470	955*	0.33	1.885*	0.1184*	13.0	0.0650	5.08
520	976	937*	0.30	1.935*	0.1156*	11.8	0.0632	4.75
540	1880	919*	0.27	1.990*	0.1128*	10.6	0.0614	4.40
560	3460	901*	0.24	2.045*	0.1100*	9.45	0.0596	4.03
580	6100	883*	0.22	2.100*	0.1072*	8.36	0.0579	3.80
600	$1.04 \cdot 10^4$	865*	0.20	2.155*	0.1044*	7.35	0.0562	3.56
620	$1.72 \cdot 10^4$	847*	0.185	2.210*	0.1016*	6.38	0.0539	3.43
640	$2.70 \cdot 10^4$	829	0.173	2.265	0.0989	5.51	0.0524	3.30

A.2.14: Tetraphenoxysilane (C<sub>6</sub>H<sub>5</sub>O)<sub>4</sub>Si

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
260	0.009	1198	264	1.464	0.1193	25.9	0.0681	3877
280	0.046	1182*	62.5	1.526	0.1198	24.7	0.0664	941
300	0.19	1166*	19.7	1.588	0.1202	23.6	0.0649	304
320	0.71	1148*	8.35*	1.650	0.1204	22.4	0.0635	131
340	2.29	1130*	4.75*	1.712	0.1206*	21.4	0.0623	76.2
360	6.81	1112*	3.16*	1.774	0.1208*	20.3	0.0612	51.6
380	18.30	1094*	2.28*	1.836	0.1208*	19.2	0.0601	37.9
400	45.30	1076	1.76*	1.898	0.1202*	18.1	0.0589	29.9
420	105	1058	1.41*	1.960	0.1190*	17.0	0.0574	24.6
440	229	1040	1.14*	2.022	0.1175*	15.9	0.0559	20.4
460	470	1022	0.96*	2.084	0.1158*	14.8	0.0544	17.6
480	921	1004	0.83*	2.146	0.1139*	13.7	0.0529	15.7
500	1180	986	0.73*	2.208	0.1118*	12.6	0.0514	14.2
520	3098	968	0.64	2.270	0.1093*	11.5	0.0497	12.9
540	5360	950	0.58	2.332	0.1069*	10.4	0.0483	12.0
560	9000	932	0.52	2.394	0.1045*	9.3	0.0468	11.1
580	$1.46 \cdot 10^4$	914	0.47	2.456	0.1025*	8.2	0.0457	10.3
600	$2.13 \cdot 10^4$	896	0.43	2.518	0.1005*	7.2	0.0445	9.66
620	$3.57 \cdot 10^4$	878	0.40	2.580	0.0985*	6.2	0.0435	9.20
640	$5.37 \cdot 10^4$	860	0.37	2.642	0.0965*	5.2	0.0425	8.71
660	$7.92 \cdot 10^4$	842	0.34	2.704	0.0945	4.3	0.0415	8.19
680	$1.15 \cdot 10^5$	824	0.32	2.766	0.0925	3.5	0.0406	7.88

A.2.15: Phenylphenoxydicrosasilane  $(C_6H_5)(C_6H_5O)(C_6H_4OCH_3)_2Si$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
240	—	1176	988	1.419	0.1346	26.8	0.0807	$1.3 \cdot 10^4$
260	0.005	1160	209	1.481	0.1322	25.6	0.0770	2716
280	0.023	1143*	60.1*	1.543	0.1298	24.4	0.0736	817
300	0.11	1126*	20.5*	1.605	0.1274	23.2	0.0705	291
320	0.41	1109*	8.62*	1.667	0.1250	22.0	0.0677	127
340	1.26	1092*	4.14*	1.729	0.1226	20.8	0.0651	63.6
360	4.15	1075*	2.40*	1.791	0.1202	19.6	0.0626	38.3
380	11.20	1028*	1.62*	1.853	0.1178	18.4	0.0601	27.0
400	26.40	1040*	1.13*	1.915	0.1154	17.2	0.0579	19.5
420	56.60	1023*	0.84*	1.977	0.1130	16.0	0.0559	15.0
440	113	1005*	0.66*	2.039	0.1106	14.8	0.0540	12.2
460	288	987.5*	0.55	2.101	0.1082	13.6	0.0522	10.5
480	573	970.0*	0.46	2.163	0.1058	12.4	0.0504	9.13
500	1088	952.5*	0.40	2.225	0.1034	11.2	0.0488	8.20
520	1981	935.0*	0.35	2.287	0.1010	10.0	0.0473	7.40
540	3480	917.5*	0.31	2.349	0.0986	8.88	0.0459	6.75
560	5920	900.0*	0.27	2.411	0.0962	7.96	0.0445	6.07
580	9690	882.5*	0.24	2.473	0.0938	7.01	0.0431	5.57
600	$1.55 \cdot 10^4$	865.0	0.22	2.535	0.0914	6.12	0.0417	5.28
620	$2.38 \cdot 10^4$	847.5	0.20	2.597	0.0890	5.33	0.0404	4.95
640	$3.65 \cdot 10^4$	830.0	0.19	2.659	0.0866	4.66	0.0392	4.84

A.2.16: Diphenoxydicrosioxysilane  $(C_6H_5O)_2(CH_3C_6H_4O)_2Si$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
240	—	1187	840	0.975	0.1592	26.7	0.1377	6100
260	—	1169	177	1.033	0.1562	25.6	0.1293	1370
280	—	1151*	35.7*	1.091*	0.1532*	24.5	0.1218	293
300	0.002	1133*	10.6*	1.142*	0.1502*	23.4	0.1158	91.6
320	0.010	1115*	5.3*	1.202*	0.1472*	22.3	0.1094	48.4
340	0.066	1097*	2.8*	1.262*	0.1442*	21.2	0.1037	27.0
360	0.271	1079*	1.77*	1.322*	0.1412*	20.1	0.0984	18.0
380	0.958	1061*	1.17*	1.382*	0.1382*	19.0	0.0936	12.5
400	3.29	1043*	0.84*	1.442*	0.1352*	17.9	0.0892	9.42
420	11.2	1025*	0.65*	1.502*	0.1322*	16.8	0.0851	7.64
440	31.5	1007*	0.52	1.562*	0.1292*	15.7	0.0814	6.39
460	81.0	989*	0.41	1.622*	0.1262*	14.6	0.0780	5.25
480	183	971*	0.32	1.682*	0.1232*	13.5	0.0749	4.27
500	311	953*	0.25	1.742*	0.1203*	12.4	0.0720	3.47
520	830	935*	0.21	1.802*	0.1174*	11.3	0.0693	3.03
540	1606	917*	0.18	1.862*	0.1146*	10.2	0.0668	2.69
560	2940	899*	0.16	1.922*	0.1118*	9.10	0.0645	2.48
580	5190	881*	0.14	1.982*	0.1090*	8.16	0.0623	2.25
600	9124	863*	0.13	2.042*	0.1062*	7.20	0.0603	2.16
620	$1.52 \cdot 10^4$	845*	0.12	2.103*	0.1035*	6.30	0.0586	2.05
640	$2.45 \cdot 10^4$	827	0.115	2.164	0.1010	5.48	0.0569	2.02
660	$3.78 \cdot 10^4$	809	0.110	2.225	0.0986	4.72	0.0552	1.99

A.2.17: Phenoxytricesoxysilane  $(C_6H_5O)(C_6H_4OCH_3)_3Si$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
240	—	1176	5110	1.422	0.1364	26.6	0.0816	$6.3 \cdot 10^4$
260	—	1159*	1220	1.483	0.1340	25.5	0.0780	$1.6 \cdot 10^4$
280	0.005	1141*	355*	1.544	0.1317	24.4	0.0748	4749
300	0.023	1124*	117*	1.605	0.1293	23.3	0.0717	1632
320	0.095	1107*	46.5*	1.666	0.1269	22.2	0.0692	672
340	0.346	1089*	20.2*	1.727	0.1246	21.1	0.0664	304
360	1.13	1072*	10.2*	1.788	0.1222	20.0	0.0639	160
380	3.05	1054*	6.82*	1.849	0.1199	18.9	0.0615	111
400	8.15	1037*	5.02*	1.910	0.1175	17.8	0.0593	84.6
420	22.70	1020*	3.92*	1.971	0.1151	16.7	0.0573	68.4
440	52.50	1002*	3.16*	2.032	0.1128	15.5	0.0555	56.9
460	114	984.8*	2.60	2.093	0.1104	14.4	0.0537	48.4
480	245	967.4*	2.19	2.154	0.1081	13.3	0.0519	42.2
500	495	950.0*	1.85	2.215	0.1057	12.2	0.0502	36.8
520	930	932.6*	1.60	2.276	0.1033	11.1	0.0486	32.9
540	1700	915.2*	1.41	2.337	0.1010	10.0	0.0471	29.9
560	2980	897.8	1.25	2.398	0.0986	8.92	0.0457	27.4
580	5050	880.4	1.03	2.459	0.0963	7.98	0.0444	23.2
600	8430	863.0	0.94	2.520	0.0939	6.98	0.0432	21.8
620	$1.35 \cdot 10^4$	845.6	0.86	2.581	0.0916	6.06	0.0420	20.5
640	$1.45 \cdot 10^4$	828.2	0.79	2.642	0.0892	5.24	0.0408	19.4
660	$2.03 \cdot 10^4$	810.8	0.74	2.703	0.0868	4.50	0.0396	18.7

A.2.18: Phenoxybiphenoxysilane  $(C_6H_5O)_3(C_6H_4OC_6H_5)_{0.7}Si$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
250	0.37	1218	545	1.220	0.1357	24.9	0.0884	6166
260	0.62	1204*	255	1.290*	0.1346	13.8	0.0861	2963
280	1.72	1189*	69.1*	1.364*	0.1323	22.7	0.0814	849
300	4.22	1174*	23.2*	1.439*	0.1299	21.6	0.0769	302
320	9.62	1159*	10.2*	1.514*	0.1275	20.5	0.0728	140
340	20.40	1143*	5.85*	1.589*	0.1252	19.4	0.0690	84.8
360	42.80	1127*	3.75*	1.665*	0.1228	18.3	0.0655	57.2
380	92.20	1111*	2.75*	1.740*	0.1205	17.2	0.0624	44.1
400	179	1094*	2.15	1.815	0.1181	16.1	0.0595	36.1
420	342	1077*	1.68	1.890	0.1157	15.0	0.0570	29.5
440	626	1060*	1.41	1.965	0.1134	13.9	0.0546	25.8
460	1080	1044*	1.17	2.041	0.1110	12.8	0.0523	22.4
480	1870	1027*	0.99	2.116	0.1087	11.7	0.0503	19.7
500	3160	1010*	0.86	2.191	0.1063	10.6	0.0483	17.8
520	5100*	993.2	0.75	2.266	0.1039	9.52	0.0464	16.2
540	8050*	976.4*	0.65	2.341	0.1016	8.46	0.0447	14.6
560	$1.24 \cdot 10^4$ *	959.6*	0.59	2.417	0.0992	7.42	0.0430	13.7
580	$1.92 \cdot 10^4$ *	942.8*	0.54	2.492	0.0969	6.40	0.0414	13.1
600	$2.79 \cdot 10^4$ *	926.0*	0.49	2.568	0.0945	5.55	0.0399	12.3
620	$4.15 \cdot 10^4$ *	909.2*	0.45	2.646	0.0922	4.75	0.0385	11.7
640	$6.01 \cdot 10^4$ *	892.4*	0.42	2.725	0.0898	4.10	0.0371	11.3
660	$8.35 \cdot 10^4$ *	875.6	0.39	2.808	0.0874	3.43	0.0357	10.9

A.2.19: Tetracresoloxysilane  $[(\text{CH}_3)(\text{C}_6\text{H}_4\text{O})]_4\text{Si}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
240	—	1168	2940	1.560	0.1288	25.4	0.0707	$4.2 \cdot 10^4$
260	—	1153	696	1.662	0.1268	24.3	0.0662	$1.1 \cdot 10^4$
280	0.009	1138*	153*	1.777*	0.1248*	23.2	0.0617	2480
300	0.047	1123*	39.8*	1.901*	0.1228*	22.1	0.0575	692
320	0.161	1108*	15.1*	2.045*	0.1208*	21.0	0.0534	283
340	0.583	1093*	7.17*	2.195*	0.1188*	19.9	0.0496	145
360	1.838	1078*	4.79*	2.365*	0.1168*	18.8	0.0458	104
380	5.26	1062*	3.39*	2.528*	0.1148*	17.7	0.0428	79.3
400	13.97	1046*	2.51*	2.707*	0.1128*	16.6	0.0398	62.9
420	34.20	1029*	2.06*	2.919*	0.1109*	15.5	0.0369	55.8
440	78.80	1012*	1.66*	3.130*	0.1090*	14.4	0.0344	48.2
460	148	995*	1.41*	3.344*	0.1071*	13.3	0.0329	43.8
480	348	978*	1.18*	3.550*	0.1052*	12.2	0.0303	38.9
500	716	961*	1.06*	3.773*	0.1033*	11.1	0.0285	37.2
520	1230	944*	0.94*	4.008*	0.1014*	10.0	0.0268	35.1
540	2290	927*	0.82*	4.234*	0.0995*	8.91	0.0254	32.3
560	3940	910*	0.74*	4.471*	0.0976*	7.85	0.0243	30.5
580	6680	893*	0.66*	4.700*	0.0958*	6.82	0.0230	28.7
600	$1.09 \cdot 10^4$	876*	0.60*	4.928*	0.0940*	5.95	0.0217	27.6
620	$1.75 \cdot 10^4$	859*	0.54*	5.258*	0.0922*	5.05	0.0204	26.4
640	$2.67 \cdot 10^4$	842	0.49	5.560	0.0902	4.25	0.0193	25.4
660	$4.05 \cdot 10^4$	825	0.45	5.676	0.0884	3.53	0.0189	23.8

A.2.20: Phenylphenoxybiphenoxysilane  $(\text{C}_6\text{H}_5)(\text{C}_6\text{H}_5\text{O})_2(\text{C}_6\text{H}_4\text{OC}_6\text{H}_5)\text{Si}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	0.06	1198*	2960	1.580*	0.1357	27.1	0.0717	$4.1 \cdot 10^4$
280	0.224	1183*	375*	1.610*	0.1333	26.1	0.0700	5360
300	0.766	1166*	87.1*	1.640*	0.1310	25.1	0.0684	1272
320	2.32	1149*	24.7*	1.670*	0.1287	24.1	0.0677	370
340	6.48	1132*	12.4*	1.710*	0.1263	23.1	0.0652	190
360	15.90	1115*	8.52*	1.745*	0.1240	22.1	0.0638	134
380	64.20	1098*	5.80*	1.780*	0.1216	21.1	0.0622	93.2
400	80.10	1081*	4.15	1.820	0.1193	20.1	0.0606	68.4
420	152	1064*	3.50	1.860	0.1170	19.1	0.0591	51.6
440	317	1047*	2.39	1.905	0.1146	18.1	0.0574	41.6
460	482	1030*	1.92	1.950	0.1123	17.1	0.0559	34.3
480	1040	1013*	1.57	2.000	0.1099	16.1	0.0542	28.9
500	1770	996*	1.35	2.030	0.1076	15.1	0.0532	25.4
520	2920*	979*	1.15	2.090	0.1053	14.1	0.0515	22.3
540	4664*	962*	0.99	2.140	0.1029	13.1	0.0499	19.8
560	7240*	945*	0.88	2.200	0.1006	12.1	0.0484	18.2
580	$1.10 \cdot 10^{4*}$	928*	0.78	2.250	0.0982	11.1	0.0470	16.6
600	$1.62 \cdot 10^{4*}$	911*	0.69	2.315	0.0959	10.1	0.0455	15.2
620	$2.51 \cdot 10^{4*}$	894*	0.62	2.385	0.0936	9.16	0.0439	14.1
640	$3.37 \cdot 10^{4*}$	877	0.56	2.465	0.0912	8.24	0.0422	13.3
660	$5.24 \cdot 10^{4*}$	860	0.51	2.540	0.0889	7.34	0.0407	12.5
680	$6.32 \cdot 10^{4*}$	843	0.47	2.625	0.0865	6.52	0.0391	12.0

## A.3: Dimethylsiloxanes

A.3.1: Polymethylsiloxane  $M_2$  linear  $(\text{CH}_3)_6\text{SiO}_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
210	14.0	848.3	5.30	1.308	0.1300	23.7	0.1172	45.2
220	51.5	838.8	2.41	1.343	0.1260	22.7	0.1119	21.5
240	254	819.8	1.68	1.412	0.1220	20.8	0.1054	15.9
260	960	800.9	1.21	1.481	0.1180	18.9	0.0995	12.2
280	2960*	781.0*	0.89*	1.550	0.1140	17.0	0.0942	9.45
300	7766*	760.7*	0.66*	1.619	0.1100	15.1	0.0893	7.39
320	$1.79 \cdot 10^{4*}$	740.3*	0.53*	1.688	0.1060	13.2	0.0848	6.25
340	$3.72 \cdot 10^{4*}$	718.6*	0.44*	1.757	0.1020	11.3	0.0808	5.46
360	$7.10 \cdot 10^{4*}$	696.1*	0.37*	1.826	0.0980	9.40	0.0771	4.80
380	$1.26 \cdot 10^{5*}$	672.5*	0.32*	1.895	0.0940	7.58	0.0738	4.34
400	$2.11 \cdot 10^5$	648.2*	0.29	1.964	0.0900	5.98	0.0707	4.10
420	$3.34 \cdot 10^5$	621.5*	0.27	2.033	0.0860	4.55	0.0681	3.97
440	$5.07 \cdot 10^5$	592.2*	0.25	2.103	0.0820	3.23	0.0658	3.80
460	$7.42 \cdot 10^5$	560.0*	0.237	2.193	0.0770	2.18	0.0635	3.73
480	$1.05 \cdot 10^6$	520.5*	0.225	2.333	0.0720	1.26	0.0593	3.80
500	$1.44 \cdot 10^6$	475.4*	0.215	2.554	0.0660	0.54	0.0544	3.95
516.6	$1.84 \cdot 10^6$	260.3	0.209	$\infty$	0.0465	0.00	0.00	$\infty$

A.3.2: Polymethylsiloxane  $M_2D$  linear  $(\text{CH}_3)_8\text{Si}_3\text{O}_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
190	—	926.3	43.7	1.401	0.1335	25.8	0.0923	480
200	0.04	916.0	19.4	1.415	0.1297	24.9	0.0914	212
220	0.80	895.4	7.17	1.426	0.1259	23.2	0.0907	79.1
240	8.10	874.8	3.54	1.461	0.1221	21.5	0.0885	40.0
260	51.7	854.2*	2.11	1.501	0.1183	19.8	0.0861	24.5
280	237	833.6*	1.44*	1.546*	0.1145*	18.1*	0.0836	17.2
300	848*	813.0*	1.05*	1.595*	0.1107*	16.4*	0.0810	12.9
320	2494*	792.4*	0.805*	1.645	0.1069	14.7	0.0785	10.3
340	6301*	771.8*	0.643*	1.695	0.1031	13.0	0.0762	8.45
360	$1.41 \cdot 10^{4*}$	751.2*	0.531*	1.755	0.0993	11.3	0.0735	7.21
380	$1.41 \cdot 10^{4*}$	730.6*	0.452*	1.815	0.0995	9.60	0.0710	6.36
400	$5.33 \cdot 10^{4*}$	710.0	0.394	1.875	0.0917	7.90	0.0689	5.72
420	$9.29 \cdot 10^{4*}$	688.4	0.352	1.940	0.0879	6.55	0.0664	5.30
440	$1.53 \cdot 10^{5*}$	668.8	0.321	2.010	0.0841	5.17	0.0640	5.01
460	$2.39 \cdot 10^5$	648.2	0.296	2.085	0.0803	3.94	0.0617	4.80
480	$3.59 \cdot 10^5$	623.8	0.278	2.160	0.0765	2.84	0.0599	4.63
500	$5.19 \cdot 10^5$	601.4	0.263	2.240	0.0727	1.88	0.0579	4.54
520	$7.27 \cdot 10^5$	578.4	0.252	2.325	0.0746	1.08	0.0555	4.54
540	$9.91 \cdot 10^5$	554.6	0.243	2.422	0.0670	0.47	0.0499	4.87
562.9	$1.37 \cdot 10^6$	259.1	0.235	$\infty$	0.0488	0.00	0.00	$\infty$

A.3.3: Polymethylsiloxane  $M_2D_2$  linear  $(CH_3)_{19}Si_4O_3$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.000	926.5	27.8	1.280	0.1288	23.7	0.1086	256
220	0.002	910.5	10.2	1.338	0.1254	22.2	0.1029	99.1
240	0.08	893.9	5.26	1.398	0.1220	20.7	0.0976	53.9
260	1.25	877.5*	3.08	1.466	0.1186	19.2	0.0922	33.4
280	10.90	860.1*	2.08*	1.534*	0.1152	17.7*	0.0873	23.8
300	63.20	842.6*	1.54*	1.602*	0.1118	16.2*	0.0828	18.6
320	269	824.8*	1.16*	1.670*	0.1084	14.7	0.0787	14.7
340	909*	807.2*	0.918*	1.738*	0.1050	13.2	0.0748	12.3
360	2565*	788.2*	0.740	1.806*	0.1016	11.7	0.0714	10.4
380	6271*	769.0*	0.622*	1.874*	0.0982	10.2	0.0681	9.13
400	$1.37 \cdot 10^4$ *	749.1	0.534	1.942*	0.0948	8.70	0.0652	8.19
420	$2.71 \cdot 10^4$ *	729.3	0.746	2.018	0.0914	7.40	0.0624	7.63
440	$4.96 \cdot 10^4$ *	707.6	0.418	2.078	0.0880	6.08	0.0598	6.98
460	$8.52 \cdot 10^4$ *	685.6	0.381	2.146	0.0846	4.86	0.0575	6.63
480	$1.38 \cdot 10^5$ *	662.7	0.351	2.214	0.0812	3.80	0.0553	6.34
500	$2.15 \cdot 10^5$	638.4	0.330	2.282	0.0778	2.78	0.0534	6.18
520	$3.19 \cdot 10^5$	610.8	0.308	2.376	0.0744	1.92	0.0513	6.01
540	$4.58 \cdot 10^5$	584.6	0.295	2.462	0.0710	1.20	0.0493	5.98
560	$6.56 \cdot 10^5$	548.0	0.285	2.567	0.0670	0.60	0.0476	5.98
580	$9.05 \cdot 10^5$	506.6	0.276	2.925	0.0616	0.20	0.0416	6.64
602.2	$1.17 \cdot 10^6$	271.0	0.266	$\infty$	0.0494	0.00	0.00	$\infty$

A.3.4: Polymethylsiloxane  $M_2D_3$  linear  $(CH_3)_{12}Si_5O_4$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
190	—	962.4	73.3	1.240	0.1332	25.8	0.1116	657
200	—	953.4	36.3	1.265	0.1300	25.0	0.1078	337
220	0.000	936.5	14.5	1.320	0.1268	23.5	0.1026	141
240	0.001	920.0	7.82	1.384	0.1236	22.0	0.0971	80.6
260	0.031	903.5*	4.46	1.454	0.1204	20.5	0.0916	48.6
280	0.53	887.5*	2.89*	1.524*	0.1172	19.0*	0.0867	33.4
300	3.92	868.7*	2.07*	1.594*	0.1140	17.5*	0.0823	25.1
320	43.40	848.0*	1.55*	1.664*	0.1108	16.0	0.0784	19.7
340	201	828.5*	1.21*	1.734*	0.1076	14.5	0.0759	16.2
360	732*	808.0*	0.98*	1.804*	0.1044	13.0	0.0716	13.7
380	1874*	788.0*	0.81*	1.874*	0.1012	11.5	0.0685	11.8
400	4313*	768.0	0.68	1.944*	0.0980	10.0	0.0656	10.4
420	9070*	748.0	0.60	2.014	0.0948	8.60	0.0629	9.53
440	$1.77 \cdot 10^4$ *	728.0	0.52	2.084	0.0916	7.35	0.0604	8.61
460	$3.23 \cdot 10^4$ *	708.0	0.48	2.154	0.0884	6.16	0.0580	8.28
480	$5.57 \cdot 10^4$ *	688.0	0.43	2.224	0.0852	5.03	0.0557	7.72
500	$9.16 \cdot 10^4$ *	668.0	0.40	2.294	0.0820	4.02	0.0535	7.47
520	$1.44 \cdot 10^5$ *	648.0	0.37	2.364	0.0788	3.06	0.0514	7.20
540	$2.19 \cdot 10^5$ *	624.0	0.35	2.434	0.0756	2.20	0.0498	7.03
560	$3.22 \cdot 10^5$	598.5	0.34	2.504	0.0724	1.47	0.0483	7.03
580	$4.60 \cdot 10^5$	570.2	0.33	2.576	0.0692	0.83	0.0471	7.00
600	$6.40 \cdot 10^5$	536.0	0.32	2.683	0.0656	0.33	0.0456	7.02

A.3.5: Polymethylsiloxane  $M_2D_4$  linear  $(CH_3)_{14}Si_6O_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
220	—	952.4	18.8	1.320	0.1304	23.5	0.1037	181
240	0.000	938.3	9.71	1.388	0.1273	22.1	0.0977	99.3
260	0.001	922.1*	5.75	1.456	0.1242	20.7	0.0925	62.1
280	0.042	901.9*	3.66*	1.525*	0.1211	19.3*	0.0880	41.6
300	0.67	882.6*	2.64*	1.595*	0.1180	17.9*	0.0838	31.5
320	5.92	865.3*	1.97*	1.660*	0.1149	16.5	0.0800	24.6
340	34.60	847.9*	1.48*	1.725*	0.1118	15.1	0.0764	19.4
360	149	830.6*	1.22*	1.795*	0.1087	13.7	0.0729	16.7
380	507*	813.2*	1.01*	1.865*	0.1056	12.3	0.0696	14.5
400	1440*	793.8	0.83	1.935	0.1025	10.9	0.0667	12.4
420	3540*	775.4	0.72	2.005	0.0994	9.55	0.0639	11.3
440	7750*	755.9	0.63	2.075	0.0963	8.35	0.0614	10.3
460	$1.54 \cdot 10^4$ *	735.3	0.55	2.145	0.0932	7.17	0.0591	9.31
480	$2.84 \cdot 10^4$ *	714.3	0.50	2.215	0.0901	6.06	0.0569	8.78
500	$4.89 \cdot 10^4$ *	692.2	0.45	2.285	0.0870	5.00	0.0550	8.18
520	$7.97 \cdot 10^4$ *	669.6	0.42	2.355	0.0839	3.98	0.0532	7.89
540	$1.24 \cdot 10^5$ *	646.2	0.39	2.425	0.0808	3.03	0.0516	7.56
560	$1.85 \cdot 10^5$	622.2	0.37	2.495	0.0777	2.26	0.0501	7.39
580	$2.66 \cdot 10^5$	596.5	0.35	2.580	0.0746	1.52	0.0485	7.22
600	$3.71 \cdot 10^5$	571.7	0.335	2.718	0.0715	0.91	0.0460	7.28
620	$5.04 \cdot 10^5$	534.2	0.320	2.912	0.0684	0.48	0.0440	7.28

A.3.6: Polymethylsiloxane  $M_2D_5$  linear  $(CH_3)_{16}Si_7O_6$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	—	976.6	63.7	1.260	0.1325	25.1	0.1077	593
220	—	963.6	24.4	1.320	0.1296	23.7	0.1019	239
240	—	946.6	11.8	1.388	0.1267	22.3	0.0964	123
260	0.000	928.7	6.93	1.456	0.1238	20.9	0.0916	75.7
280	0.001	910.2*	4.36*	1.524*	0.1209	19.5*	0.0872	50.0
300	0.041	892.5*	3.12*	1.592*	0.1180	18.1*	0.0830	37.6
320	0.63	874.9	2.35	1.660*	0.1151	16.7	0.0793	29.7
340	5.50	856.2	1.81	1.728*	0.1122	15.3	0.0758	23.9
360	32.0	840.8	1.42	1.796*	0.1093	13.9	0.0724	19.6
380	136	820.6	1.16	1.864*	0.1064	12.5	0.0696	16.7
400	460*	800.5	0.97	1.932	0.1035	11.1	0.0669	14.5
420	1298*	783.5	0.81	2.000	0.1006	9.7	0.0642	12.6
440	3174*	765.8	0.71	2.068	0.0977	8.53	0.0617	11.5
460	6915*	747.0	0.63	2.136	0.0948	7.35	0.0594	10.6
480	$1.37 \cdot 10^4$ *	727.6	0.55	2.204	0.0919	6.24	0.0573	9.60
500	$2.51 \cdot 10^4$ *	709.1	0.50	2.272	0.0890	5.88	0.0552	9.05
520	$4.31 \cdot 10^4$ *	687.5	0.46	2.340	0.0861	4.38	0.0535	8.59
540	$7.01 \cdot 10^4$ *	664.5	0.43	2.408	0.0832	3.52	0.0520	8.27
560	$1.09 \cdot 10^5$ *	639.6	0.41	2.476	0.0803	2.70	0.0507	8.09
580	$1.62 \cdot 10^5$ *	614.0	0.39	2.544	0.0774	2.02	0.0496	7.87
600	$2.32 \cdot 10^5$	588.0	0.37	2.716	0.0745	1.39	0.0466	7.93
620	$3.23 \cdot 10^5$	558.8	0.35	2.892	0.0710	0.88	0.0439	7.97



A.3.7: Polymethylsiloxane  $M_2D_6$  linear  $(\text{CH}_3)_{18}\text{Si}_8\text{O}_7$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
220	—	973.5	31.4	1.333	0.1302	23.7	0.1003	313
240	—	958.5	14.2	1.393	0.1274	22.4	0.0954	149
260	—	940.5	8.39	1.458	0.1246	21.1	0.0909	92.4
280	—	920.5*	5.47*	1.522	0.1218	19.8*	0.0869	62.9
300	0.000	902.4*	3.93*	1.590	0.1190	18.5*	0.0829	47.4
320	0.017	886.3	2.92	1.658	0.1162	17.2	0.0791	36.9
340	0.255	861.2	2.24	1.725	0.1134	15.8	0.0759	29.5
360	2.72	846.3	1.76	1.793	0.1106	14.5	0.0729	24.1
380	27.30	826.9	1.43	1.860	0.1078	13.2	0.0701	20.4
400	129.60	809.6	1.17	1.928	0.1050	11.9	0.0673	17.4
420	412.0	792.5	0.98	1.996	0.1022	10.6	0.0646	15.2
440	1155*	772.4	0.85	2.063	0.0994	9.30	0.0624	13.6
460	2827*	753.0	0.75	2.131	0.0966	8.01	0.0602	12.5
480	7427*	736.0	0.65	2.198	0.0938	6.84	0.0580	11.2
500	$1.64 \cdot 10^{4*}$	717.4	0.59	2.266	0.0910	5.74	0.0560	10.5
520	$3.16 \cdot 10^{4*}$	696.0	0.54	2.334	0.0882	4.76	0.0543	9.94
540	$5.52 \cdot 10^{4*}$	675.0	0.50	2.401	0.0854	3.90	0.0527	9.49
560	$8.90 \cdot 10^{4*}$	653.1	0.47	2.496	0.0826	3.18	0.0512	9.17
580	$1.35 \cdot 10^{5*}$	632.4	0.45	2.536	0.0798	2.51	0.0498	9.04
600	$1.93 \cdot 10^5$	608.1	0.43	2.604	0.0770	1.89	0.0486	8.84
620	$2.66 \cdot 10^5$	582.0	0.41	2.672	0.0742	1.32	0.0477	8.59
640	$3.54 \cdot 10^5$	552.4	0.39	2.752	0.0714	0.83	0.0470	8.30

A.3.8: Polymethylsiloxane  $M_2D_7$  linear  $(\text{CH}_3)_{20}\text{Si}_9\text{O}_8$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
220	—	981.1	42.4	1.328	0.1305	24.1	0.1001	423
240	—	964.8	19.8	1.384	0.1279	22.8	0.0958	207
260	—	948.2	11.1	1.451	0.1253	21.5	0.0911	122
280	—	929.6*	7.43*	1.519	0.1227	20.2*	0.0869	85.5
300	—	911.0*	5.33*	1.586	0.1201	18.9*	0.0831	64.1
320	0.000	892.4	3.94	1.653	0.1175	17.6	0.0797	49.5
340	0.004	873.8	3.01	1.721	0.1149	16.3	0.0764	39.4
360	0.181	855.2	2.37	1.788	0.1123	15.0	0.0734	32.3
380	2.82	836.6	1.89	1.856	0.1097	13.7	0.0706	26.8
400	28.80	818.0	1.57	1.923	0.1071	12.4	0.0681	23.1
420	137	799.4	1.30	1.990	0.1045	11.1	0.0657	19.8
440	484	780.8	1.12	2.058	0.1019	9.82	0.0634	17.7
460	1310	762.2	0.99	2.125	0.0983	8.55	0.0607	16.3
480	3160*	743.6	0.87	2.193	0.0967	7.37	0.0593	14.7
500	7620*	725.0	0.79	2.260	0.0941	6.32	0.0574	13.8
520	$1.63 \cdot 10^{4*}$	706.4	0.72	2.327	0.0915	5.29	0.0557	12.9
540	$3.23 \cdot 10^{4*}$	687.8	0.66	2.395	0.0889	4.40	0.0540	12.2
560	$6.11 \cdot 10^{4*}$	669.2	0.62	2.462	0.0863	3.61	0.0524	11.8
580	$1.02 \cdot 10^{5*}$	650.6	0.58	2.530	0.0837	2.89	0.0508	11.4
600	$1.58 \cdot 10^5$	632.0	0.55	2.597	0.0811	2.24	0.0494	11.3
620	$2.18 \cdot 10^5$	613.4	0.53	2.682	0.0785	1.61	0.0477	11.2
640	$2.95 \cdot 10^5$	592.8	0.51	2.822	0.0759	1.06	0.0454	11.1

A.3.9: Polymethylsiloxane  $M_2D_8$  linear  $(CH_3)_{22}Si_{10}O_9$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$\alpha \cdot 10^6$ , m <sup>2</sup> /s	Pr
240	—	977.5	25.3	1.385	0.1287	22.9	0.0955	265
260	—	956.0	13.9	1.450	0.1262	21.6	0.0910	153
280	—	937.5*	8.95*	1.517	0.1237*	20.3	0.0870	103
300	—	919.0*	6.12*	1.584	0.1212*	19.0	0.0833	73.5
320	—	902.0	4.57	1.651	0.1187	17.7	0.0797	57.3
340	0.000	884.0	3.48	1.718	0.1162	16.4	0.0765	45.5
360	0.004	866.0	2.70	1.785	0.1137	15.4	0.0736	36.7
380	0.45	848.0	2.19	1.825	0.1112	13.8	0.0708	30.9
400	4.95	826.0	1.80	1.919	0.1087	12.5	0.0686	26.2
420	35.50	807.4	1.52	1.986	0.1062	11.2	0.0662	23.0
440	177	788.8	1.31	2.053	0.1037	9.9	0.0640	20.5
460	606*	770.2	1.15	2.120	0.1012	8.65	0.0620	18.6
480	1580*	757.6	1.01	2.187	0.0987	7.52	0.0602	16.8
500	3810*	733.0	0.91	2.254	0.0962	6.45	0.0582	15.6
520	8620*	714.4	0.83	2.321	0.0937	5.45	0.0565	14.7
540	$1.91 \cdot 10^4$ *	695.8	0.77	2.388	0.0912	4.52	0.0549	14.0
560	$3.75 \cdot 10^4$ *	677.2	0.72	2.455	0.0887	3.73	0.0533	13.6
580	$6.55 \cdot 10^4$ *	658.6	0.67	2.522	0.0862	3.01	0.0519	12.8
600	$1.06 \cdot 10^5$ *	640.0	0.63	2.589	0.0837	2.35	0.0505	12.5
620	$1.58 \cdot 10^5$	621.4	0.59	2.656	0.0812	1.75	0.0492	12.0
640	$2.22 \cdot 10^5$	599.0	0.56	2.733	0.0787	1.19	0.0481	11.6

A.3.10: Polymethylsiloxane  $M_2D_9$  linear  $(CH_3)_{24}Si_{11}O_{10}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$\alpha \cdot 10^6$ , m <sup>2</sup> /s	Pr
240	—	976.8	30.8	1.384	0.1292	22.7	0.0956	323
260	—	958.2	16.4	1.448	0.1270	21.5	0.0915	179
280	—	939.6*	10.2	1.514*	0.1246*	20.3	0.0876	116
300	—	921.0*	7.02	1.581*	0.1222*	19.1	0.0839	83.6
320	—	902.4	5.08	1.648	0.1198	17.9	0.0806	63.1
340	—	883.8	3.86	1.715	0.1174	16.7	0.0775	49.8
360	0.000	865.2	3.03	1.781	0.1150	15.5	0.0746	40.6
380	0.036	846.6	2.50	1.848	0.1126	14.3	0.0720	34.7
400	1.42	828.0	2.09	1.915	0.1102	13.1	0.0695	30.1
420	9.75	809.4	1.78	1.982	0.1078	12.9	0.0672	26.5
440	71.50	790.8	1.53	2.049	0.1054	10.7	0.0651	23.5
460	282	772.2	1.34	2.115	0.1030	9.50	0.0631	21.2
480	812*	753.6	1.20	2.182	0.1006	8.30	0.0612	19.6
500	2120*	735.0	1.08	2.249	0.0982	7.18	0.0594	18.2
520	5150*	716.4	0.97	2.316	0.0958	6.22	0.0577	16.8
540	$1.16 \cdot 10^4$ *	697.8	0.89	2.383	0.0934	5.22	0.0562	15.8
560	$2.37 \cdot 10^4$ *	679.2	0.81	2.449	0.0910	4.31	0.0547	14.8
580	$4.55 \cdot 10^4$ *	660.6	0.75	2.516	0.0886	3.51	0.0533	14.1
600	$8.15 \cdot 10^4$ *	642.0	0.70	2.583	0.0862	2.77	0.0520	13.5
620	$1.27 \cdot 10^5$ *	623.4	0.66	2.651	0.0838	2.11	0.0507	13.0
640	$1.82 \cdot 10^5$	604.8	0.63	2.722	0.0814	1.52	0.0494	12.7

A.3.11: Polymethylsiloxane  $D_4$  cyclic  $(\text{CH}_3)_8\text{Si}_4\text{O}_4$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
280	104	968*	5.67*	1.535	0.1180*	19.6	0.0794	71.4
300	347*	948*	2.43*	1.602	0.1152*	18.0	0.0759	32.0
320	973*	925*	1.54*	1.671	0.1124	16.4	0.0727	21.2
340	2520*	903*	1.24*	1.739	0.1096	14.8	0.0698	17.8
360	5910*	880*	1.01*	1.808	0.1068	13.2	0.0671	15.0
380	$1.21 \cdot 10^4$ *	858*	0.85*	1.877	0.1040	11.6	0.0646	13.2
400	$2.30 \cdot 10^4$ *	835	0.74*	1.935	0.1012	10.3	0.0626	11.8
420	$4.33 \cdot 10^4$ *	813	0.64*	2.027	0.0984	9.01	0.0597	10.7
440	$7.49 \cdot 10^4$ *	790	0.57	2.117	0.0956	7.72	0.0572	9.97
460	$1.20 \cdot 10^5$	768	0.53	2.217	0.0928	6.54	0.0545	9.72
480	$1.97 \cdot 10^5$	745	0.49	2.317	0.0900	5.38	0.0521	9.40
500	$2.98 \cdot 10^5$	723	0.45	2.417	0.0872	4.28	0.0499	9.02
520	$4.44 \cdot 10^5$	678	0.43	2.517	0.0844	3.21	0.0495	8.69
540	$6.32 \cdot 10^5$	638	0.42	2.663	0.0816	2.14	0.0480	8.74
560	$8.84 \cdot 10^5$	580	0.41	2.876	0.0776	1.14	0.0465	8.81
580	$1.20 \cdot 10^6$	502	0.40	3.350	0.0700	0.58	0.0416	9.61
587	$1.34 \cdot 10^6$	304	0.39	$\infty$	0.0472	0.00	0.00	$\infty$

A.3.12: Polymethylsiloxane  $D_5$  cyclic  $(\text{CH}_3)_{10}\text{Si}_5\text{O}_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	2.51	994.5*	10.50	1.467	0.1262	20.8	0.0865	121
280	13.00	973.0*	5.21*	1.531	0.1236	19.3*	0.0830	62.8
300	54.10	951.0*	3.93*	1.599	0.1210	17.8*	0.0796	49.4
320	188	929.0*	2.79*	1.668	0.1184	16.3	0.0764	36.6
340	536*	907.0*	2.08*	1.737	0.1158	14.8	0.0735	28.2
360	1476*	885.0*	1.55*	1.806	0.1132	13.3	0.0708	20.9
380	3653*	863.0*	1.19*	1.875	0.1106	11.8	0.0684	17.4
400	7900*	841.0	0.969	1.944	0.1080	10.4	0.0661	14.7
420	$1.36 \cdot 10^4$ *	819.0	0.838	2.013	0.1054	9.10	0.0689	12.2
440	$2.96 \cdot 10^4$ *	797.0	0.733	2.082	0.1028	7.81	0.0672	10.9
460	$5.46 \cdot 10^4$ *	775.0	0.665	2.151	0.1002	6.67	0.0657	9.97
480	$9.56 \cdot 10^4$ *	453.0	0.597	2.220	0.0976	5.61	0.0648	9.22
500	$1.58 \cdot 10^5$ *	731.0	0.548	2.289	0.0950	4.47	0.0645	8.50
520	$2.51 \cdot 10^5$	700.2	0.515	2.358	0.0924	3.41	0.0642	8.02
540	$3.87 \cdot 10^5$	661.2	0.485	2.632	0.0898	2.35	0.0637	7.61
560	$5.78 \cdot 10^5$	611.9	0.458	2.825	0.0848	1.41	0.0635	7.21
580	$8.50 \cdot 10^5$	551.6	0.442	3.403	0.0777	0.93	0.0414	10.70
593.2	$1.04 \cdot 10^6$	291.9	0.430	$\infty$	0.5250	0.00	0.00	$\infty$

A.3.13: Polymethylsiloxane  $D_6$  cyclic  $(\text{CH}_3)_{12}\text{Si}_6\text{O}_6$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
260	1.03	998.4*	20.8	1.463	0.1274	22.1	0.0872	238
280	5.28	978.4*	10.8*	1.531	0.1248	20.6	0.0833	130
300	21.70	960.0*	6.84*	1.599	0.1222	19.1	0.0796	85.9
320	64.30	939.6*	4.56*	1.667	0.1196	17.6	0.0763	59.7
340	190	919.2*	3.18*	1.735	0.1170	16.1	0.0733	43.4
360	545	898.8*	2.32*	1.804	0.1144	14.6	0.0706	32.9
380	1405*	878.4*	1.78*	1.872	0.1118	13.1	0.0680	26.2
400	3150*	858.0	1.37	1.940	0.1092	11.6	0.0656	20.9
420	6330*	837.6	1.11	2.008	0.1066	10.2	0.0634	17.5
440	$1.21 \cdot 10^{4*}$	817.2	0.961	2.076	0.1040	8.80	0.0613	15.7
460	$2.13 \cdot 10^{4*}$	796.8	0.852	2.145	0.1014	7.45	0.0593	14.3
480	$3.66 \cdot 10^{4*}$	776.4	0.777	2.213	0.0988	6.10	0.0575	13.5
500	$5.96 \cdot 10^{4*}$	756.0	0.701	2.281	0.0962	5.00	0.0558	12.6
520	$9.43 \cdot 10^{4*}$	735.6	0.650	2.349	0.0936	3.95	0.0542	12.0
540	$1.43 \cdot 10^5$	715.2	0.603	2.417	0.0910	3.00	0.0526	11.5
560	$2.13 \cdot 10^5$	694.8	0.570	2.486	0.0884	2.10	0.0512	11.1
580	$3.08 \cdot 10^5$	649.8	0.541	2.554	0.0858	1.35	0.0517	10.5
600	$4.32 \cdot 10^5$	598.1	0.514	2.895	0.0832	0.75	0.0480	10.7
620	$5.92 \cdot 10^5$	537.3	0.490	3.190	0.0792	0.25	0.0462	10.6
640	$8.05 \cdot 10^5$	454.5	0.473	5.190	0.0730	0.08	0.0309	15.3
645	$8.64 \cdot 10^5$	267.1	0.465	$\infty$	0.0515	0.00	0.00	$\infty$

A.3.14: Polymethylsiloxane  $D_7$  cyclic  $(\text{CH}_3)_{14}\text{Si}_7\text{O}_7$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
240	0.02	1026	65.3	1.388	0.1307	23.4	0.0918	711
260	0.14	1006*	30.6	1.456	0.1282	22.0	0.0875	350
280	0.76	986*	16.8*	1.525	0.1257*	20.6*	0.0836	201
300	4.34	966*	10.4*	1.593	0.1232*	19.2*	0.0801	130
320	20.00	946*	6.86*	1.661	0.1207	17.8	0.0768	89.3
340	63.30	926*	4.53*	1.730	0.1182	16.4	0.0740	61.2
360	164	906*	3.33*	1.798	0.1157	15.0	0.0712	46.8
380	426	886*	2.48*	1.867	0.1132	13.6	0.0684	36.2
400	1110*	866	1.95	1.935	0.1107	12.2	0.0661	29.5
420	2640*	846	1.61	2.003	0.1082	10.8	0.0641	25.1
440	5190*	826	1.35	2.072	0.1057	9.4	0.0621	21.7
460	$1.01 \cdot 10^{4*}$	806	1.17	2.140	0.1032	8.07	0.0602	19.4
480	$1.95 \cdot 10^{4*}$	786	1.05	2.209	0.1007	6.88	0.0582	18.0
500	$3.21 \cdot 10^{4*}$	766	0.96	2.277	0.0982	5.75	0.0563	17.1
520	$5.27 \cdot 10^{4*}$	746	0.89	2.345	0.0957	4.54	0.0548	16.2
540	$8.83 \cdot 10^{4*}$	716	0.83	2.414	0.0932	3.56	0.0533	15.6
560	$1.30 \cdot 10^{5*}$	696	0.78	2.482	0.0907	2.66	0.0519	15.0
580	$1.91 \cdot 10^5$	666	0.73	2.551	0.0882	1.84	0.0504	14.5
600	$2.76 \cdot 10^5$	624	0.69	2.807	0.0857	1.12	0.0489	14.1
620	$3.96 \cdot 10^5$	588	0.66	3.014	0.0827	0.58	0.0467	14.2
640	$5.46 \cdot 10^5$	524	0.63	3.410	0.0772	0.21	0.0432	14.6
660	$7.45 \cdot 10^5$	263	0.61	$\infty$	0.0523	0.00	0.00	$\infty$

A.3.15: Polymethylsiloxane  $D_8$  cyclic  $(CH_3)_{16}Si_8O_8$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	0.023	1018	46.7	1.460	0.1280	22.2	0.0867	538
280	0.106	993.0*	21.5*	1.530	0.1256*	20.9	0.0828	260
300	0.945	974.0*	12.9*	1.597	0.1232*	19.6	0.0792	163
320	5.45	954.0	8.45*	1.664	0.1208	18.3	0.0761	111
340	19.60	934.0	5.62	1.731	0.1184	17.0	0.0732	76.7
360	61.20*	914.0	3.93	1.798	0.1160	15.7	0.0706	55.7
380	152*	894.0	2.94	1.865	0.1136	14.4	0.0681	43.2
400	376*	874.0	2.31	1.932	0.1112	13.1	0.0659	35.1
420	915*	854.0	1.91	1.999	0.1088	11.8	0.0637	30.0
440	2070*	834.0	1.64	2.066	0.1064	10.5	0.0618	26.6
460	4340*	814.0	1.46	2.133	0.1040	9.20	0.0599	24.4
480	8310*	794.0	1.33	2.200	0.1016	7.90	0.0582	22.9
500	$1.47 \cdot 10^4$ *	774.0	1.22	2.267	0.0992	6.60	0.0565	21.6
520	$2.65 \cdot 10^4$ *	754.0	1.14	2.334	0.0968	5.40	0.0550	20.7
540	$4.40 \cdot 10^4$ *	734.0	1.08	2.404	0.0944	4.35	0.0535	20.2
560	$7.00 \cdot 10^4$ *	708.0	1.02	2.482	0.0920	3.35	0.0524	19.5
580	$1.09 \cdot 10^5$	678.0	0.972	2.560	0.0896	2.45	0.0516	18.8
600	$1.68 \cdot 10^5$	644.0	0.925	2.646	0.0872	1.65	0.0512	18.1
620	$2.50 \cdot 10^5$	604.7	0.891	2.747	0.0848	1.02	0.0511	17.5
640	$3.58 \cdot 10^5$	560.8	0.860	2.883	0.0802	0.46	0.0496	17.3
660	$5.09 \cdot 10^5$	506.6	0.935	3.160	0.0741	0.15	0.0463	18.0
675	$6.44 \cdot 10^5$	254.2	0.818	$\infty$	0.0538	0.00	0.00	$\infty$

## A.4: Oligomethylhydrosiloxanes

A.4.1: Oligomethylhydrosiloxane linear  $(\text{CH}_3)_7\text{HSi}_3\text{O}_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.83	917	12.4	1.269	0.1437	26.4	0.1235	101
220	6.68	896	7.89	1.338	0.1375	24.5	0.1147	68.8
240	38.20	875	4.95	1.407	0.1313	22.6	0.1067	46.4
260	167	854	3.45	1.476	0.1251	20.7	0.0992	34.8
280	590	833*	2.51*	1.545	0.1189	18.8	0.0923	27.2
300	1765	812*	1.88*	1.614	0.1127	16.9	0.0860	21.9
320	4600	791	1.50	1.683	0.1065	15.0	0.0798	18.8
340	$1.07 \cdot 10^4$	770	1.22	1.752	0.1003	13.1	0.0744	16.4
360	$2.27 \cdot 10^4$	749	1.01	1.821	0.0941	11.2	0.0690	14.6
380	$4.45 \cdot 10^4$	728	0.87	1.890	0.0873	9.3	0.0640	13.6
400	$8.16 \cdot 10^4$ *	707	0.76	1.959	0.0817	7.40	0.0590	12.9
420	$1.41 \cdot 10^5$ *	686	0.69	2.028	0.0755	5.50	0.0541	12.8
440	$2.32 \cdot 10^5$	665	0.63	2.097	0.0693	3.60	0.0496	12.7
460	$3.66 \cdot 10^5$	644	0.59	2.166	0.0631	2.24	0.0452	13.0
480	$5.55 \cdot 10^5$	619	0.56	2.240	0.0569	1.19	0.0401	14.0
500	$8.14 \cdot 10^5$	588	0.54	2.344	0.0501	0.51	0.0349	15.4
520	$1.16 \cdot 10^6$	553	0.52	2.535	0.0411	0.11	0.0293	17.7
541.2	$1.64 \cdot 10^6$	272.3	0.505	$\infty$	0.0150	0.00	0.00	$\infty$

A.4.2: Oligomethylhydrosiloxane linear  $(\text{CH}_3)_8\text{H}_2\text{Si}_4\text{O}_3$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.22	951.0	15.4	1.266	0.1490	25.5	0.1238	125
220	1.66	930.5	9.55	1.334	0.1320	23.8	0.1142	83.6
240	12.10	910.0	5.90	1.402	0.1350	22.1	0.1058	55.8
260	64.50	889.5	4.03	1.470	0.1280	20.4	0.0978	41.2
280	238	869.0*	2.93*	1.538	0.1210	18.7	0.0909	32.2
300	670	848.5*	2.20*	1.606	0.1140	17.0	0.0837	26.3
320	1840	828.0	1.71	1.674	0.1070	15.3	0.0776	22.0
340	4380	807.5	1.37	1.742	0.1000	13.6	0.0718	19.1
360	9600	787.0	1.13	1.810	0.0930	11.9	0.0660	17.1
380	$1.94 \cdot 10^4$	766.5	0.96	1.878	0.0860	10.2	0.0602	16.0
400	$3.65 \cdot 10^4$	746.0	0.84	1.946	0.0790	8.5	0.0544	15.4
420	$6.46 \cdot 10^4$ *	725.5	0.75	2.014	0.0720	6.80	0.0495	15.2
440	$1.09 \cdot 10^5$ *	705.0	0.67	2.082	0.0650	5.10	0.0446	15.0
460	$1.75 \cdot 10^5$	684.5	0.61	2.150	0.0580	3.52	0.0397	15.4
480	$2.67 \cdot 10^5$	664.0	0.57	2.218	0.0510	2.36	0.0348	16.4
500	$4.01 \cdot 10^5$	643.5	0.54	2.286	0.0440	1.36	0.0299	18.1
520	$5.83 \cdot 10^5$	618.8	0.52	2.381	0.0370	0.66	0.0240	21.7
540	$8.22 \cdot 10^5$	575.2	0.50	2.537	0.0298	0.22	0.0204	24.5
560	$1.13 \cdot 10^6$	493.3	0.49	2.915	0.0205	0.05	0.0142	34.4
570.9	$1.33 \cdot 10^6$	276.4	0.483	$\infty$	0.0155	0.00	0.00	$\infty$

A.4.3: Oligomethylhydrosiloxane linear  $(\text{CH}_3)_9\text{H}_3\text{Si}_5\text{O}_4$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.002	974.0	18.1	1.260	0.1455	25.4	0.1186	153
220	0.03	953.9	10.6	1.328	0.1395	23.8	0.1105	95.9
240	0.29	933.8	6.81	1.396	0.1335	22.2	0.1024	66.5
260	1.82	913.7	4.67	1.464	0.1275	20.6	0.0958	48.7
280	10.00	893.6*	3.26*	1.532	0.1215	19.0	0.0892	36.5
300	47.20	873.5*	2.48*	1.600	0.1155	17.4	0.0827	30.0
320	177	853.4	1.90	1.668	0.1095	15.8	0.0772	24.6
340	519*	833.3	1.49	1.736	0.1035	14.2	0.0717	20.8
360	840*	813.2	1.22	1.804	0.0975	12.6	0.0667	18.3
380	2800	793.1	1.02	1.872	0.0915	11.0	0.0615	16.6
400	7700	773.0	0.88	1.940	0.0855	9.40	0.0570	15.4
420	$1.59 \cdot 10^4$	752.9	0.77	2.008	0.0795	7.80	0.0528	14.6
440	$3.09 \cdot 10^4$	732.8	0.69	2.076	0.0735	6.20	0.0486	14.2
460	$5.65 \cdot 10^4$	712.7	0.62	2.144	0.0675	4.80	0.0445	13.9
480	$9.83 \cdot 10^4$	692.6	0.56	2.212	0.0615	3.45	0.0404	13.9
500	$1.64 \cdot 10^5$	671.1	0.53	2.280	0.0555	2.50	0.0363	14.6
520	$2.62 \cdot 10^5$	648.2	0.50	2.350	0.0495	1.66	0.0322	15.5
540	$4.01 \cdot 10^5$	624.1	0.48	2.431	0.0435	0.99	0.0277	17.3
560	$6.08 \cdot 10^5$	595.5	0.47	2.562	0.0362	0.48	0.0230	20.4
580	$8.84 \cdot 10^5$	551.4	0.46	2.850	0.0285	0.12	0.0177	26.0
593.3	$1.12 \cdot 10^6$	277.8	0.451	$\infty$	0.0185	0.00	0.00	$\infty$

A.4.4: Oligomethylhydrosiloxane linear  $(\text{CH}_3)_{10}\text{H}_4\text{Si}_6\text{O}_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	—	992.0	19.9	1.256	0.1419	25.0	0.1139	175
220	0.004	972.0	11.8	1.324	0.1369	23.5	0.1071	110
240	0.053	952.0	7.49	1.392	0.1319	22.0	0.0995	75.3
260	0.31	932.0	5.02	1.460	0.1269	20.5	0.0930	54.0
280	2.20	912.0*	3.55*	1.528	0.1219	19.0	0.0873	40.7
300	12.90	892.0*	2.66*	1.596	0.1169	17.5	0.0821	32.4
320	51.20	872.0	2.02	1.664	0.1119	16.0	0.0772	26.2
340	172	852.0	1.58	1.732	0.1069	14.5	0.0727	21.7
360	610	832.0	1.30	1.800	0.1019	13.0	0.0683	19.0
380	1350*	812.0	1.07	1.868	0.0969	11.5	0.0642	16.7
400	3170*	792.0	0.90	1.936	0.0919	10.0	0.0599	15.0
420	6955	772.0	0.78	2.004	0.0869	8.51	0.0564	13.8
440	$1.42 \cdot 10^4$	752.0	0.70	2.072	0.0819	7.09	0.0529	13.2
460	$2.73 \cdot 10^4$	732.0	0.64	2.140	0.0769	5.77	0.0494	13.0
480	$4.96 \cdot 10^4$	712.0	0.58	2.208	0.0719	4.59	0.0459	12.6
500	$8.60 \cdot 10^4$	692.0	0.54	2.276	0.0669	3.53	0.0424	12.7
520	$1.43 \cdot 10^5$	672.0	0.51	2.344	0.0619	2.60	0.0388	13.1
540	$2.35 \cdot 10^5$	648.8	0.49	2.437	0.0569	1.85	0.0351	14.0
560	$3.14 \cdot 10^5$	624.1	0.47	2.588	0.0501	1.21	0.0310	15.2
580	$5.31 \cdot 10^5$	592.5	0.45	2.842	0.0439	0.67	0.0260	17.3
600	$7.77 \cdot 10^5$	546.3	0.44	3.498	0.0356	0.20	0.0186	23.6
611.2	$9.50 \cdot 10^5$	277.1	0.428	$\infty$	0.0225	0.00	0.00	$\infty$

A.4.5: Oligomethylhydrosiloxane cyclic  $(\text{CH}_3)_3\text{H}_3\text{Si}_3\text{O}_3$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
140	—	1128	56.7	1.130	0.1720	33.1	0.1349	420
160	0.000	1107	23.3	1.150	0.1640	31.3	0.1268	184
180	0.35	1086	11.6	1.207	0.1580	29.4	0.1205	96.2
200	4.98	1065	6.78	1.276	0.1500	27.5	0.1098	61.7
220	41.00	1044	4.25	1.345	0.1420	25.4	0.1012	42.0
240	226	1023	2.78	1.414	0.1340	23.3	0.0926	30.0
260	923	1002	1.97	1.483	0.1260	21.2	0.0852	23.1
280	3020	981.4*	1.43*	1.552	0.1180	19.1	0.0777	18.4
300	8270	960.5*	1.11*	1.621	0.1100	17.0	0.0707	15.7
320	$1.97 \cdot 10^4$	939.6	0.88	1.690	0.1020	14.9	0.0642	13.7
340	$4.20 \cdot 10^4$	918.7	0.74	1.759	0.0940	12.8	0.0582	12.7
360	$8.18 \cdot 10^{4*}$	897.8	0.64	1.828	0.0860	10.7	0.0524	12.2
380	$1.47 \cdot 10^{5*}$	876.9	0.57	1.897	0.0780	8.60	0.0472	12.1
400	$2.49 \cdot 10^5$	856.0	0.51	1.966	0.0700	6.50	0.0420	12.2
420	$4.00 \cdot 10^5$	831.5	0.46	2.035	0.0620	4.40	0.0367	12.5
440	$6.12 \cdot 10^5$	804.5	0.43	2.110	0.0540	2.35	0.0318	13.5
460	$9.00 \cdot 10^6$	775.1	0.40	2.220	0.0460	1.15	0.0262	15.3
480	$1.28 \cdot 10^6$	740.5	0.385	2.420	0.0360	0.42	0.0202	19.1
500	$1.77 \cdot 10^6$	677.0	0.375	2.840	0.0255	0.09	0.0133	28.3
513.3	$2.154 \cdot 10^6$	294.7	0.366	$\infty$	0.0130	0.00	0.00	$\infty$

A.4.6: Oligomethylhydrosiloxane cyclic  $(\text{CH}_3)_4\text{H}_4\text{Si}_4\text{O}_4$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
210	0.66	1078	11.5	1.301	0.1444	25.1	0.1030	112
220	2.34	1067	9.19	1.335	0.1409	24.2	0.0987	93.1
240	19.90	1046	5.91	1.404	0.1339	22.4	0.0912	64.8
260	113	1026	4.03	1.473	0.1269	20.6	0.0838	48.1
280	472	1005*	2.88*	0.542	0.1199	18.8	0.0772	37.3
300	1570	984.0*	2.24*	1.611	0.1129	17.0	0.0712	31.5
320	4380	963.2	1.81	1.680	0.1059	15.2	0.0655	27.6
340	$1.06 \cdot 10^4$	942.4	1.48	1.749	0.0989	13.4	0.0601	24.6
360	$2.29 \cdot 10^4$	921.6	1.22	1.818	0.0919	11.6	0.0547	22.3
380	$4.50 \cdot 10^4$	900.8	1.04	1.887	0.0849	9.80	0.0500	20.8
400	$8.19 \cdot 10^{4*}$	880.0	0.92	1.956	0.0771	8.00	0.0453	20.3
420	$1.37 \cdot 10^{5*}$	859.2	0.82	2.025	0.0709	6.20	0.0408	20.1
440	$2.26 \cdot 10^5$	838.4	0.75	2.094	0.0639	4.40	0.0363	20.7
460	$3.48 \cdot 10^5$	817.6	0.69	2.163	0.0569	2.75	0.0321	21.5
480	$5.15 \cdot 10^5$	796.8	0.65	2.236	0.0499	1.53	0.0280	23.2
500	$7.36 \cdot 10^5$	774.0	0.62	2.322	0.0429	0.74	0.0238	26.1
520	$1.02 \cdot 10^6$	739.5	0.59	2.464	0.0359	0.24	0.0194	30.4
540	$1.38 \cdot 10^6$	671.0	0.57	2.666	0.0262	0.04	0.0147	38.9
551.5	$1.62 \cdot 10^6$	288.9	0.56	$\infty$	0.0131	0.00	0.00	$\infty$



A.4.7: Oligomethylhydrosiloxane cyclic  $(\text{CH}_3)_5\text{H}_5\text{Si}_5\text{O}_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
180	0.014	1113	37.0	1.138	0.1530	26.9	0.1208	306
200	0.200	1093	19.7	1.206	0.1466	25.3	0.1143	172
220	1.77	1073	11.5	1.274	0.1402	23.7	0.1026	112
240	10.90	1052	7.61	1.342	0.1338	22.1	0.0956	79.6
260	50.80	1032	5.22	1.410	0.1274	20.5	0.0886	58.9
280	190	1012*	3.73	1.478	0.1210	18.9	0.0816	45.7
300	569	991.5*	2.81	1.546	0.1146	17.3	0.0748	37.6
320	1620	971.2	2.18	1.614	0.1082	15.7	0.0683	31.9
340	3910	950.9	1.75	1.682	0.1018	14.1	0.0629	27.8
360	8565	930.6	1.43	1.750	0.0954	12.5	0.0579	24.7
380	$1.73 \cdot 10^4$	910.3	1.21	1.818	0.0890	10.9	0.0532	22.7
400	$3.25 \cdot 10^4$	890.0	1.05	1.886	0.0826	9.30	0.0492	21.3
420	$5.75 \cdot 10^4$	869.7	0.93	1.954	0.0762	7.70	0.0447	20.8
440	$9.67 \cdot 10^4$ *	849.4	0.84	2.022	0.0698	6.10	0.0406	20.7
460	$1.55 \cdot 10^5$ *	829.1	0.78	2.090	0.0634	4.50	0.0367	21.3
480	$2.40 \cdot 10^5$	808.8	0.72	2.158	0.0570	3.04	0.0329	21.9
500	$3.58 \cdot 10^5$	777.5	0.68	2.229	0.0506	2.86	0.0292	23.3
520	$5.17 \cdot 10^5$	763.8	0.65	2.311	0.0442	0.96	0.0252	25.8
540	$7.28 \cdot 10^5$	735.6	0.63	2.441	0.0365	0.40	0.0209	30.1
560	$1.00 \cdot 10^6$	692.2	0.61	2.709	0.0291	0.08	0.0155	39.3
578.2	$1.31 \cdot 10^6$	288.8	0.585	$\infty$	0.0144	0.00	0.00	$\infty$

A.4.8: Oligomethylhydrosiloxane cyclic  $(\text{CH}_3)_6\text{H}_6\text{Si}_6\text{O}_6$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	11.1	1099	21.9	1.259	0.1460	24.9	0.1055	208
220	53.2	1079	13.1	1.327	0.1400	23.4	0.0978	134
240	197	1059	8.70	1.395	0.1340	21.9	0.0907	95.9
260	569	1039	5.75	1.463	0.1280	20.4	0.0842	68.3
280	1540	1019*	4.04*	1.531	0.1220	18.9	0.0781	51.7
300	3510	999*	3.01*	1.599	0.1160	17.4	0.0726	41.5
320	7210	979	2.29	1.667	0.1100	15.9	0.0672	34.1
340	$1.36 \cdot 10^4$	959	1.82	1.735	0.1040	14.4	0.0624	29.2
360	$3.39 \cdot 10^4$	939	1.47	1.803	0.0980	12.9	0.0580	25.3
380	$3.97 \cdot 10^4$	919	1.24	1.871	0.0920	11.4	0.0536	23.1
400	$6.25 \cdot 10^4$	899	1.08	1.939	0.0860	9.90	0.0493	21.9
420	$9.43 \cdot 10^4$	879	0.95	2.007	0.0800	8.40	0.0456	20.8
440	$1.37 \cdot 10^5$ *	859	0.85	2.075	0.0740	6.90	0.0419	20.3
460	$1.93 \cdot 10^5$ *	839	0.77	2.143	0.0680	5.40	0.0382	20.2
480	$2.64 \cdot 10^5$	819	0.69	2.211	0.0620	3.91	0.0345	20.0
500	$3.52 \cdot 10^5$	799	0.64	2.279	0.0560	2.80	0.0308	20.8
520	$4.59 \cdot 10^5$	777	0.61	2.349	0.0500	1.95	0.0268	22.8
540	$5.87 \cdot 10^5$	753	0.58	2.438	0.0440	1.22	0.0230	25.2
560	$7.38 \cdot 10^5$	725	0.56	2.594	0.0378	0.62	0.0188	29.8
580	$9.13 \cdot 10^5$	691	0.55	2.892	0.0291	0.19	0.0146	37.8
599.1	$1.104 \cdot 10^6$	288.8	0.54	$\infty$	0.0157	0.00	0.00	$\infty$

## A.5: Oligomethylethylsiloxanes

A.5.1: Oligomethylethylsiloxane linear  $(\text{CH}_3)_4(\text{C}_2\text{H}_5)_2\text{Si}_2\text{O}$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	0.87	887.0	6.05	1.480	0.1420	26.6	0.1082	56.0
220	5.45	867.9	3.06	1.542	0.1360	25.0	0.1013	30.2
240	34.0	848.8	1.75	1.604	0.1300	23.4	0.0952	18.4
260	152	829.7	1.12	1.666	0.1240	21.8	0.0894	12.5
280	515	710.5*	0.81*	1.728	0.1180	20.2	0.0842	9.62
300	1340	791.5*	0.60*	1.790	0.1120	18.6	0.0791	7.59
320	3355	772.4	0.46	1.852	0.1060	17.0	0.0741	6.21
340	7540	753.3	0.36	1.914	0.1000	15.4	0.0691	5.21
360	$1.55 \cdot 10^4$	734.2	0.29	1.976	0.0940	13.8	0.0647	4.48
380	$2.95 \cdot 10^4$	715.1	0.25	2.038	0.0880	12.2	0.0603	4.15
400	$5.27 \cdot 10^4$	696.0	0.21	2.100	0.0820	10.6	0.0561	3.74
420	$8.91 \cdot 10^{4*}$	676.9	0.19	2.162	0.0760	9.00	0.0521	3.65
440	$1.43 \cdot 10^{5*}$	657.8	0.17	2.224	0.0700	7.40	0.0481	3.53
460	$2.22 \cdot 10^5$	638.7	0.155	2.286	0.0640	6.01	0.0441	3.51
480	$3.33 \cdot 10^5$	619.6	0.145	2.348	0.0580	4.68	0.0401	3.62
500	$4.77 \cdot 10^5$	600.5	0.137	2.410	0.0520	3.45	0.0359	3.81
520	$6.70 \cdot 10^5$	578.4	0.130	2.488	0.0458	2.37	0.0314	4.14
540	$9.17 \cdot 10^5$	553.5	0.124	2.602	0.0390	1.48	0.0266	4.66
560	$1.23 \cdot 10^6$	526.2	0.195	2.764	0.0320	0.75	0.0216	5.51
580	$1.61 \cdot 10^6$	485.1	0.114	3.073	0.0240	0.21	0.0161	7.08
594.6	$1.94 \cdot 10^6$	243.8	0.110	$\infty$	0.100	0.00	0.00	$\infty$

A.5.2: Oligomethylethylsiloxane linear  $(\text{CH}_3)_7(\text{C}_2\text{H}_5)\text{Si}_3\text{O}_2$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	2.75	919	21.1	1.466	0.1275	25.3	0.0946	223
220	12.40	900	8.35	1.528	0.1226	24.0	0.0892	93.6
240	65.90	881	4.29	1.590	0.1177	22.7	0.0841	51.0
260	213	862	2.67	1.652	0.1128	21.4	0.0794	33.6
280	626	843*	1.81*	1.714	0.1079	20.1	0.0748	24.2
300	1577	824*	1.29*	1.776	0.1030	18.8	0.0704	18.3
320	3380	805	0.95	1.838	0.0981	17.5	0.0663	14.3
340	6620	786	0.73	1.900	0.0932	16.2	0.0636	11.5
360	$1.31 \cdot 10^4$	767	0.57	1.962	0.0883	14.9	0.0589	9.68
380	$2.23 \cdot 10^4$	748	0.47	2.024	0.0834	13.6	0.0552	8.51
400	$3.77 \cdot 10^4$	729	0.40	2.086	0.0785	12.3	0.0516	7.75
420	$5.82 \cdot 10^4$	710	0.35	2.148	0.0736	11.0	0.0483	7.24
440	$8.85 \cdot 10^{4*}$	691	0.30	2.210	0.0687	9.70	0.0451	6.65
460	$1.31 \cdot 10^{5*}$	672	0.27	2.272	0.0638	8.40	0.0419	6.44
480	$1.86 \cdot 10^5$	653	0.24	2.334	0.0589	7.10	0.0387	6.20
500	$2.54 \cdot 10^5$	634	0.22	2.396	0.0540	5.80	0.0355	6.19
520	$3.37 \cdot 10^5$	615	0.21	2.458	0.0491	4.55	0.0325	6.47
540	$4.38 \cdot 10^5$	596	0.20	2.520	0.0442	3.35	0.0294	6.80
560	$5.74 \cdot 10^5$	577	0.19	2.582	0.0393	2.36	0.0263	7.22
580	$7.16 \cdot 10^5$	558	0.18	2.644	0.0344	1.54	0.0233	7.73
600	$8.98 \cdot 10^5$	539	0.17	2.726	0.0295	0.83	0.0201	8.47
620	$1.11 \cdot 10^6$	520	0.16	2.858	0.0246	0.35	0.0166	9.67

A.5.3: Oligomethylethylsiloxane linear  $(\text{CH}_3)_6(\text{C}_2\text{H}_5)_2\text{Si}_3\text{O}_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	1.52	950	24.0	1.463	0.1420	25.0	0.1022	235
220	8.08	928	9.95	1.525	0.1366	23.8	0.0964	103
240	39.70	906	4.73	1.587	0.1312	22.6	0.0908	52.1
260	142	884*	2.89*	1.649	0.1258	21.4	0.0858	33.7
280	415	862*	1.90*	1.711	0.1204	20.2	0.0813	23.4
300	1038	840*	1.33*	1.773	0.1150	19.0	0.0772	17.2
320	2250	818*	0.98*	1.835	0.1096	17.8	0.0729	13.4
340	4540	796*	0.78*	1.897	0.1042	16.6	0.0690	11.3
360	9145	774	0.64	1.959	0.0988	15.4	0.0653	9.80
380	$1.62 \cdot 10^4$	752	0.53	2.021	0.0934	14.2	0.0616	8.60
400	$2.71 \cdot 10^4$	730	0.43	2.083	0.0880	13.0	0.0579	7.43
420	$4.36 \cdot 10^4$	708	0.36	2.145	0.0826	11.81	0.0543	6.63
440	$6.68 \cdot 10^4$	686	0.31	2.207	0.0772	10.60	0.0511	6.07
460	$9.77 \cdot 10^4$ *	664	0.28	2.269	0.0718	9.40	0.0479	5.85
480	$1.39 \cdot 10^5$ *	642	0.25	2.331	0.0664	8.20	0.0445	5.62
500	$1.91 \cdot 10^5$	620	0.22	2.393	0.0610	7.00	0.0411	5.35
520	$2.58 \cdot 10^5$	598	0.20	2.455	0.0556	5.80	0.0377	5.31
540	$3.44 \cdot 10^5$	576	0.19	2.517	0.0502	4.60	0.0343	5.54
560	$4.42 \cdot 10^5$	554	0.18	2.579	0.0448	3.40	0.0311	5.79
580	$5.68 \cdot 10^5$	532	0.17	2.641	0.0394	2.21	0.0278	6.12
600	$7.11 \cdot 10^5$	510	0.165	2.705	0.0340	1.38	0.0246	6.69
620	$8.76 \cdot 10^5$	488	0.160	2.780	0.0286	0.71	0.0210	7.59

A.5.4: Oligomethylethylsiloxane linear  $(\text{CH}_3)_5(\text{C}_2\text{H}_5)_3\text{Si}_3\text{O}_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.19	972.0	31.2	1.461	0.1376	25.1	0.0969	322
220	1.30	953.9	10.7	1.523	0.1330	23.9	0.0915	117
240	7.81	935.8	5.46	1.585	0.1284	22.7	0.0865	63.1
260	35.30	917.7	3.25	1.647	0.1238	21.5	0.0818	39.7
280	114	899.5*	2.17*	1.709	0.1192	20.3	0.0775	28.0
300	310	881.5*	1.53*	1.771	0.1146	19.1	0.0734	20.8
320	849	863.4	1.11	1.833	0.1100	17.9	0.0695	16.0
340	1880	845.3	0.84	1.895	0.1054	16.7	0.0657	12.8
360	4020	827.2	0.69	1.957	0.1008	15.5	0.0622	11.1
380	7747	809.1	0.57	2.019	0.0962	14.3	0.0589	9.68
400	$1.40 \cdot 10^4$	791.0	0.49	2.081	0.0916	13.1	0.0556	8.81
420	$2.38 \cdot 10^4$	772.9	0.42	2.143	0.0870	11.9	0.0526	7.98
440	$3.91 \cdot 10^4$	754.8	0.35	2.205	0.0824	10.7	0.0497	7.04
460	$6.08 \cdot 10^4$	736.7	0.30	2.267	0.0778	9.50	0.0468	6.41
480	$9.11 \cdot 10^4$ *	718.6	0.27	2.329	0.0732	8.30	0.0439	6.15
500	$1.34 \cdot 10^5$ *	700.5	0.25	2.391	0.0686	7.10	0.0410	6.10
520	$1.88 \cdot 10^5$	682.4	0.23	2.453	0.0640	5.90	0.0382	6.02
540	$2.56 \cdot 10^5$	664.0	0.21	2.515	0.0594	4.86	0.0356	5.90
560	$3.49 \cdot 10^5$	641.8	0.20	2.582	0.0548	3.82	0.0331	6.05
580	$4.61 \cdot 10^5$	609.3	0.19	2.652	0.0502	2.86	0.0311	6.16
600	$6.01 \cdot 10^5$	595.8	0.18	2.726	0.0456	2.01	0.0281	6.41
620	$7.60 \cdot 10^5$	573.5	0.17	2.811	0.0410	1.31	0.0254	6.68

A.5.5: Oligomethylethylsiloxane linear  $(\text{CH}_3)_9(\text{C}_2\text{H}_5)\text{Si}_4\text{O}_3$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	1.25	937	37.1	1.454	0.1405	25.3	0.1031	360
220	6.66	920	13.1	1.516	0.1355	24.1	0.0969	135
240	31.10	903	6.68	1.578	0.1305	22.9	0.0913	73.2
260	108	886*	3.67*	1.640	0.1255	21.7	0.0861	42.6
280	305	869*	2.33*	1.702	0.1205	20.5	0.0814	28.6
300	770	852*	1.64*	1.764	0.1155	19.3	0.0768	21.3
320	1760	835*	1.24*	1.826	0.1105	18.1	0.0728	17.0
340	3650	818*	0.99*	1.888	0.1055	16.9	0.0688	14.4
360	6850	801	0.80	1.950	0.1005	15.7	0.0649	12.3
380	$1.19 \cdot 10^4$	784	0.67	2.012	0.0955	14.5	0.0610	11.0
400	$1.85 \cdot 10^4$	767	0.56	2.074	0.0905	13.3	0.0576	9.72
420	$3.07 \cdot 10^4$	750	0.48	2.136	0.0855	12.1	0.0537	8.94
440	$4.76 \cdot 10^4$	733	0.41	2.198	0.0805	10.9	0.0500	8.20
460	$6.97 \cdot 10^{4*}$	716	0.35	2.260	0.0755	9.70	0.0469	7.46
480	$9.90 \cdot 10^{4*}$	699	0.31	2.322	0.0705	8.50	0.0436	7.11
500	$1.37 \cdot 10^5$	682	0.27	2.384	0.0655	7.30	0.0403	6.70
520	$1.84 \cdot 10^5$	665	0.24	2.446	0.0605	6.10	0.0371	6.47
540	$2.42 \cdot 10^5$	648	0.22	2.508	0.0555	4.90	0.0340	6.47
560	$3.10 \cdot 10^5$	631	0.20	2.570	0.0505	3.82	0.0311	6.43
580	$3.95 \cdot 10^5$	614	0.19	2.632	0.0455	2.91	0.0281	6.76
600	$4.89 \cdot 10^5$	597	0.18	2.694	0.0405	2.10	0.0255	7.15
620	$6.11 \cdot 10^5$	580	0.17	2.760	0.0355	1.35	0.0222	7.67

A.5.6: Oligomethylethylsiloxane linear  $(\text{CH}_3)_8(\text{C}_2\text{H}_5)\text{Si}_4\text{O}_3$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	0.30	949.0	39.4	1.457	0.1390	25.4	0.1005	392
220	1.85	931.3	15.3	1.518	0.1344	24.2	0.0951	161
240	10.20	913.6	8.97	1.579	0.1298	23.0	0.0901	99.6
260	44.40	895.9	4.78	1.640	0.1252	21.8	0.0854	56.0
280	140	878.2*	3.16*	1.701	0.1206	20.6	0.0809	39.1
300	351	860.5*	2.22*	1.762	0.1160	19.4	0.0765	29.0
320	845	842.8	1.62	1.823	0.1114	18.2	0.0726	22.3
340	1810	825.1	1.25	1.884	0.1068	17.0	0.0690	18.1
360	3716	807.4	0.98	1.945	0.1022	15.8	0.0654	15.0
380	6870	789.7	0.78	2.006	0.0976	14.6	0.0618	12.6
400	$1.21 \cdot 10^4$	772.0	0.63	2.067	0.0930	13.4	0.0584	10.8
420	$2.00 \cdot 10^4$	754.3	0.53	2.128	0.0884	12.2	0.0553	9.58
440	$3.23 \cdot 10^4$	736.6	0.45	2.189	0.0838	11.0	0.0523	8.60
460	$4.85 \cdot 10^4$	718.9	0.39	2.250	0.0792	9.80	0.0492	7.93
480	$8.11 \cdot 10^4$	701.2	0.35	2.311	0.0746	8.60	0.0462	7.58
500	$1.01 \cdot 10^{5*}$	683.5	0.31	2.372	0.0700	7.40	0.0432	7.18
520	$1.41 \cdot 10^{5*}$	665.8	0.28	2.433	0.0654	6.20	0.0404	6.94
540	$1.91 \cdot 10^5$	648.1	0.26	2.494	0.0608	5.15	0.0376	6.91
560	$2.51 \cdot 10^5$	630.0	0.25	2.558	0.0562	4.12	0.0349	7.17
580	$3.24 \cdot 10^5$	608.7	0.24	2.628	0.0516	3.12	0.0323	7.44
600	$4.12 \cdot 10^5$	588.5	0.23	2.702	0.0470	2.25	0.0296	7.78
620	$5.23 \cdot 10^5$	567.3	0.22	2.788	0.0424	1.51	0.0268	8.21

A.5.7: Oligomethylethylsiloxane linear  $(\text{CH}_3)_6(\text{C}_2\text{H}_5)_4\text{Si}_4\text{O}_3$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.06	962.0	100	1.454	0.1366	25.0	0.0977	1024
220	0.37	944.5	27.7	1.515	0.1326	23.9	0.0922	300
240	2.49	927.0	11.7	1.576	0.1286	22.8	0.0877	133
260	11.40	909.5	6.55	1.637	0.1246	21.7	0.0834	78.5
280	40.60	892.0*	4.02*	1.698	0.1206	20.6	0.0795	50.6
300	114	874.5*	2.69*	1.759	0.1166	19.5	0.0758	35.5
320	319	857.0	1.84	1.820	0.1126	18.4	0.0722	25.5
340	770	839.5	1.40	1.881	0.1086	17.3	0.0687	20.4
360	1820	822.0	1.10	1.942	0.1046	16.2	0.0655	16.8
380	3120	804.5	0.86	2.003	0.1006	15.1	0.0625	13.8
400	5880	787.0	0.69	2.064	0.0966	14.0	0.0595	11.7
420	9944	769.5	0.58	2.125	0.0926	12.9	0.0567	10.2
440	$1.64 \cdot 10^4$	752.0	0.49	2.186	0.0886	11.8	0.0540	9.07
460	$2.55 \cdot 10^4$	734.5	0.42	2.247	0.0846	10.7	0.0512	8.20
480	$3.94 \cdot 10^4$	717.0	0.36	2.308	0.0806	9.60	0.0488	7.38
500	$5.72 \cdot 10^4$	699.5	0.32	2.369	0.0766	8.50	0.0462	6.93
520	$8.21 \cdot 10^4$ *	682.0	0.29	2.430	0.0726	7.40	0.0439	6.61
540	$1.15 \cdot 10^5$ *	664.5	0.27	2.491	0.0686	6.30	0.0415	6.51
560	$1.56 \cdot 10^5$	647.0	0.25	2.552	0.0646	5.20	0.0394	6.35
580	$2.08 \cdot 10^5$	629.5	0.23	2.613	0.0606	4.15	0.0370	6.22
600	$2.77 \cdot 10^5$	612.0	0.22	2.674	0.0566	3.22	0.0347	6.34
620	$3.47 \cdot 10^5$	594.5	0.21	2.735	0.0526	2.35	0.0324	6.49

A.5.8: Oligomethylethylsiloxane linear  $(\text{CH}_3)_9(\text{C}_2\text{H}_5)_3\text{Si}_5\text{O}_4$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	—	973.0	138	1.448	0.1394	24.7	0.0989	1395
220	0.003	955.4	40.50	1.509	0.1350	23.7	0.0936	433
240	0.10	937.8	14.90	1.570	0.1306	22.7	0.0888	168
260	1.27	920.2	6.83	1.631	0.1262	21.7	0.0844	80.9
280	12.20	902.6*	4.04*	1.692	0.1218	20.7	0.0800	50.5
300	54.50	885.0*	2.72*	1.753	0.1174	19.7	0.0757	35.9
320	182	867.4	1.92	1.814	0.1130	18.7	0.0719	26.7
340	483	849.8	1.41	1.875	0.1086	17.7	0.0680	20.7
360	1180	832.2	1.09	1.936	0.1042	16.7	0.0646	16.9
380	2540	814.6	0.86	1.997	0.0998	15.7	0.0613	14.0
400	5204	797.0	0.69	2.058	0.0954	14.7	0.0582	11.9
420	9430	779.4	0.57	2.119	0.0910	13.7	0.0551	10.3
440	$1.59 \cdot 10^4$	761.8	0.47	2.180	0.0866	12.7	0.0520	9.04
460	$2.54 \cdot 10^4$	744.2	0.41	2.241	0.0822	11.7	0.0492	8.33
480	$3.83 \cdot 10^4$	726.6	0.36	2.302	0.0778	10.7	0.0464	7.76
500	$5.61 \cdot 10^4$	709.0	0.32	2.363	0.0734	9.7	0.0438	7.30
520	$7.88 \cdot 10^4$ *	691.4	0.29	2.424	0.0690	8.7	0.0412	7.04
540	$1.07 \cdot 10^5$ *	673.8	0.26	2.485	0.0646	7.7	0.0386	6.73
560	$1.42 \cdot 10^5$	656.2	0.24	2.546	0.0602	6.7	0.0360	6.66
580	$1.80 \cdot 10^5$	638.6	0.22	2.607	0.0558	5.7	0.0335	6.56
600	$2.30 \cdot 10^5$	621.0	0.21	2.668	0.0514	4.7	0.0310	6.77
620	$2.91 \cdot 10^5$	603.4	0.20	2.729	0.0470	3.7	0.0285	7.01

A.5.9: Oligomethylethylsiloxane linear  $(\text{CH}_3)_7(\text{C}_2\text{H}_5)\text{Si}_5\text{O}_4$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.013	981.0	50.2	1.446	0.1381	24.8	0.0974	516
220	0.15	963.9	25.4	1.507	0.1341	23.8	0.0920	276
240	0.77	946.8	14.0	1.568	0.1301	22.8	0.0873	160
260	3.45	929.7	8.95	1.628	0.1201	21.8	0.0829	108
280	13.90	912.6*	5.75*	1.690	0.1221	20.8	0.791	72.7
300	40.20	895.5*	3.95*	1.751	0.1181	19.8	0.0753	52.4
320	116	878.4	2.92	1.812	0.1141	18.8	0.0717	40.7
340	297	861.3	2.15	1.873	0.1101	17.8	0.0683	31.5
360	645	844.2	1.67	1.934	0.1061	16.8	0.0651	26.7
380	1370	827.1	1.31	1.995	0.1021	15.8	0.0619	21.2
400	2540	810.0	1.05	2.056	0.0981	14.8	0.0589	17.8
420	4680	792.9	0.86	2.117	0.0941	13.8	0.0562	15.3
440	8920	775.8	0.72	2.178	0.0901	12.8	0.0534	13.5
460	$1.24 \cdot 10^4$	758.7	0.61	2.239	0.0861	11.8	0.0509	12.0
480	$1.92 \cdot 10^4$	741.6	0.53	2.300	0.0821	10.8	0.0482	11.0
500	$2.89 \cdot 10^4$	724.5	0.47	2.361	0.0781	9.80	0.0457	10.3
520	$4.20 \cdot 10^4$	707.4	0.43	2.422	0.0741	8.80	0.0431	9.98
540	$5.93 \cdot 10^4$	690.3	0.39	2.483	0.0701	7.80	0.0407	9.58
560	$8.18 \cdot 10^4$ *	673.2	0.36	2.544	0.0661	6.80	0.0386	9.33
580	$1.10 \cdot 10^5$ *	656.1	0.33	2.605	0.0621	5.80	0.0363	9.08
600	$1.46 \cdot 10^5$	639.0	0.31	2.666	0.0581	4.85	0.0341	9.09
620	$1.89 \cdot 10^5$	621.9	0.29	2.727	0.0541	3.90	0.0319	9.11

A.5.10: Oligomethylethylsiloxane linear  $(\text{CH}_3)_{10}(\text{C}_2\text{H}_5)_4\text{Si}_6\text{O}_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.034	985.0	424	1.443	0.1390	25.0	0.0978	4335
220	0.31	968.1	104	1.503	0.1350	24.0	0.0928	1120
240	1.48	951.2	32.60	1.563	0.1310	23.0	0.0882	370
260	5.65	934.3	14.60	1.623	0.1270	22.0	0.0838	174
280	22.90	917.4*	8.46*	1.683	0.1230	21.0	0.0798	106
300	64.70	900.5*	5.11*	1.743	0.1190	20.0	0.0758	67.4
320	166	883.6	3.46	1.803	0.1150	19.0	0.0720	48.1
340	383	866.7	2.54	1.863	0.1110	18.0	0.0686	37.0
360	804	849.8	1.93	1.923	0.1070	17.0	0.0654	29.5
380	1600	832.9	1.51	1.983	0.1030	16.0	0.0622	24.3
400	2950	816.0	1.21	2.043	0.0990	15.0	0.0594	20.4
420	4867	799.1	1.01	2.103	0.0950	14.0	0.0566	17.8
440	7950	782.2	0.84	2.163	0.0910	13.0	0.0538	15.6
460	$1.24 \cdot 10^4$	765.3	0.71	2.223	0.0870	12.0	0.0512	13.9
480	$1.87 \cdot 10^4$	748.4	0.62	2.283	0.0830	11.0	0.0486	12.8
500	$2.73 \cdot 10^4$	731.5	0.54	2.343	0.0790	10.0	0.0461	11.7
520	$3.90 \cdot 10^4$	714.6	0.49	2.403	0.0750	9.0	0.0435	11.3
540	$5.36 \cdot 10^4$	697.7	0.44	2.463	0.0710	8.0	0.0409	10.8
560	$7.27 \cdot 10^4$	680.8	0.40	2.523	0.0670	7.0	0.0385	10.4
580	$9.68 \cdot 10^4$ *	663.9	0.37	2.583	0.0630	6.0	0.0363	10.2
600	$1.24 \cdot 10^5$ *	647.0	0.34	2.643	0.0590	5.1	0.0343	9.91
620	$1.58 \cdot 10^5$	630.1	0.31	2.703	0.0550	4.2	0.0323	9.60

A.5.11: Oligomethylethylsiloxane linear  $(\text{CH}_3)_8(\text{C}_2\text{H}_5)_6\text{Si}_6\text{O}_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	—	994.0	890	1.445	0.1390	24.7	0.0968	9200
220	—	976.4	152	1.505	0.1350	23.8	0.0921	1650
240	0.009	958.8	58.5	1.565	0.1310	22.9	0.0875	669
260	0.07	941.2	27.1	1.625	0.1270	22.0	0.0831	326
280	0.29	923.6*	15.2*	1.685	0.1230	21.1	0.0791	192
300	1.33	906.0*	9.75*	1.745	0.1190	20.2	0.0753	130
320	6.13	888.4	6.62	1.805	0.1150	19.3	0.0718	92.2
340	19.60	870.8	4.67	1.865	0.1110	18.4	0.0685	68.2
360	52.50	853.2	3.44	1.925	0.1070	17.5	0.0653	52.7
380	133*	835.6	2.66	1.985	0.1030	16.6	0.0622	42.8
400	284*	818.0	2.15	2.045	0.0990	15.7	0.0592	36.3
420	605	800.4	1.76	2.105	0.0950	14.8	0.0562	31.3
440	1250	782.8	1.47	2.165	0.0910	13.9	0.0534	27.5
460	2270	765.2	1.23	2.225	0.0870	13.0	0.0510	24.1
480	4050	747.6	1.08	2.285	0.0830	12.1	0.0485	22.3
500	6855	730.0	0.94	2.345	0.0790	11.2	0.0461	20.4
520	$1.12 \cdot 10^4$	712.4	0.82	2.405	0.0750	10.3	0.0439	18.7
540	$1.76 \cdot 10^4$	694.8	0.73	2.465	0.0710	9.40	0.0418	17.5
560	$2.61 \cdot 10^4$	677.2	0.65	2.525	0.0670	8.50	0.0397	16.4
580	$3.80 \cdot 10^4$	659.6	0.57	2.585	0.0630	7.60	0.0367	15.5
600	$5.52 \cdot 10^4$	642.0	0.51	2.645	0.0590	6.70	0.0347	14.7
620	$7.67 \cdot 10^4$	624.4	0.46	2.705	0.0550	5.80	0.0326	14.1

A.5.12: Oligomethylethylsiloxane linear  $(\text{CH}_3)_{21}(\text{C}_2\text{H}_5)_6\text{Si}_{10}\text{O}_9$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	—	1030	1220	1.445	0.1414	25.3	0.0950	$1.3 \cdot 10^4$
220	—	1013	295	1.503	0.1373	24.4	0.0897	3288
240	0.000	995.6	86.4	1.561	0.1334	23.5	0.0851	1015
260	0.002	978.4	32.6	1.619	0.1294	22.6	0.0810	403
280	0.015	961.2*	15.8*	1.677	0.1254	21.7	0.0776	204
300	0.086	944.0*	9.16*	1.735	0.1214	20.8	0.0744	124
320	0.39	926.8	5.77	1.793	0.1174	19.9	0.0712	81.0
340	1.48	909.6	4.04	1.851	0.1134	19.0	0.0680	59.4
360	4.87	892.4	3.00	1.909	0.1094	18.1	0.0648	46.3
380	14.10	875.2	2.33	1.967	0.1054	17.2	0.0616	37.8
400	36.60	858.0	1.88	2.025	0.1014	16.3	0.0584	32.2
420	86.90	840.8	1.52	2.083	0.0974	15.4	0.0556	27.3
440	191	823.6	1.27	2.141	0.0934	14.5	0.0530	24.0
460	391*	806.4	1.06	2.199	0.0894	13.6	0.0505	21.0
480	755	789.2	0.90	2.257	0.0854	12.7	0.0480	18.8
500	1385	772.0	0.77	2.315	0.0814	11.8	0.0455	16.9
520	2420	754.8	0.66	2.373	0.0774	10.9	0.0432	15.3
540	4060	737.6	0.57	2.431	0.0734	10.0	0.0410	13.9
560	6560	720.4	0.51	2.489	0.0694	9.1	0.0388	13.1
580	$1.03 \cdot 10^4$	703.2	0.46	2.547	0.0654	8.2	0.0366	12.6
600	$1.56 \cdot 10^4$	686.0	0.42	2.605	0.0614	7.3	0.0344	12.2
620	$2.30 \cdot 10^4$	668.8	0.39	2.663	0.0574	6.4	0.0322	12.1

A.5.13: Oligomethylethylsiloxane cyclic  $(\text{CH}_3)_3(\text{C}_2\text{H}_5)_3\text{Si}_3\text{O}_3$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
280	187	960*	4.88*	1.711	0.1150	20.3	0.0700	69.7
300	525	941*	3.27*	1.773	0.1100	19.0	0.0659	49.6
320	1300	922	2.38	1.835	0.1050	17.7	0.0621	38.3
340	2920	903	1.81	1.897	0.1000	16.4	0.0584	31.0
360	5880	884	1.43	1.959	0.0950	15.1	0.0549	22.5
380	$1.12 \cdot 10^4$	865	1.16	2.021	0.0900	13.8	0.0515	26.1
400	$2.00 \cdot 10^4$	846	0.98	2.083	0.0850	12.5	0.0482	20.3
420	$3.35 \cdot 10^4$	827	0.84	2.145	0.0800	11.2	0.0451	18.6
440	$5.36 \cdot 10^4$	808	0.73	2.207	0.0750	9.90	0.0421	17.4
460	$8.26 \cdot 10^4$ *	789	0.66	2.269	0.0700	8.60	0.0391	16.9
480	$1.23 \cdot 10^5$ *	770	0.59	2.331	0.0650	7.30	0.0362	16.3
500	$1.76 \cdot 10^5$	751	0.54	2.393	0.0600	6.00	0.0334	16.2
520	$2.46 \cdot 10^5$	732	0.50	2.455	0.0550	4.70	0.0306	16.3
540	$3.37 \cdot 10^5$	713	0.47	2.517	0.0500	3.63	0.0279	16.9
560	$4.49 \cdot 10^5$	694	0.44	2.579	0.0450	2.61	0.0251	17.5
580	$5.86 \cdot 10^5$	675	0.42	2.641	0.0400	1.72	0.0224	18.7
600	$7.61 \cdot 10^5$	654	0.40	2.719	0.0350	1.00	0.0197	20.3
620	$9.66 \cdot 10^5$	620	0.39	2.855	0.0300	0.45	0.0169	23.0
640	$1.19 \cdot 10^6$	530	0.38	3.118	0.0230	0.12	0.0139	27.3
658.6	$1.435 \cdot 10^6$	257.8	0.375	$\infty$	0.0125	0.00	0.00	$\infty$

A.5.14: Oligomethylethylsiloxane cyclic  $(\text{CH}_3)_4(\text{C}_2\text{H}_5)_4\text{Si}_4\text{O}_4$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
240	3.83	1003	15.4	1.575	0.1344	22.8	0.0851	181
260	16.50	985	10.0	1.636	0.1296	21.7	0.0804	124
280	57.60	967*	6.85*	1.697	0.1248	20.6	0.0761	90.1
300	170	949*	4.85*	1.758	0.1200	19.5	0.0719	67.4
320	450	931	3.49	1.819	0.1152	18.4	0.0684	51.0
340	1030	913	2.69	1.880	0.1104	17.3	0.0648	39.7
360	2135	895	2.11	1.941	0.1056	16.2	0.0612	34.5
380	4250	877	1.71	2.002	0.1008	15.1	0.0577	29.6
400	7500	859	1.40	2.063	0.0960	14.0	0.0542	25.8
420	$1.30 \cdot 10^4$	841	1.16	2.124	0.0912	12.9	0.0509	22.8
440	$2.17 \cdot 10^4$	823	1.01	2.185	0.0864	11.4	0.0479	21.1
460	$3.35 \cdot 10^4$	805	0.88	2.246	0.0816	10.3	0.0450	19.6
480	$5.04 \cdot 10^4$	787	0.77	2.307	0.0768	9.40	0.0422	18.3
500	$7.36 \cdot 10^4$ *	769	0.69	2.368	0.0720	8.50	0.0395	17.5
520	$1.04 \cdot 10^5$ *	751	0.63	2.429	0.0672	7.40	0.0369	17.1
540	$1.46 \cdot 10^5$	733	0.58	2.490	0.0624	6.30	0.0342	17.0
560	$1.98 \cdot 10^5$	715	0.54	2.551	0.0576	5.20	0.0317	17.0
580	$2.58 \cdot 10^5$	697	0.51	2.612	0.0528	4.10	0.0290	17.5
600	$3.44 \cdot 10^5$	679	0.48	2.673	0.0480	3.05	0.0264	18.1
620	$4.36 \cdot 10^5$	661	0.46	2.734	0.0432	2.10	0.0239	19.2
640	$5.39 \cdot 10^5$	643	0.44	2.797	0.0384	1.31	0.0213	20.6
660	$6.69 \cdot 10^5$	625	0.42	2.880	0.0336	0.71	0.0187	22.5



A.5.15: Oligomethylethylsiloxane cyclic  $(\text{CH}_3)_5(\text{C}_2\text{H}_5)_5\text{Si}_5\text{O}_5$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
160	—	1079	9900	1.452	0.1565	26.6	0.0999	$1.0 \cdot 10^5$
180	0.002	1062	1400	1.512	0.1515	25.6	0.0943	$1.1 \cdot 10^4$
200	0.02	1045	309	1.572	0.1465	24.6	0.0887	3485
220	0.20	1028	82.5	1.632	0.1415	23.6	0.0839	983
240	1.21	1011	28.6	1.692	0.1365	22.6	0.0798	358
260	5.72	993.4	14.2	1.752	0.1315	21.6	0.0754	188
280	21.30	976.2*	8.55*	1.812	0.1265	20.6	0.0715	120
300	63.60	959.0*	5.52*	1.872	0.1215	19.6	0.0678	81.4
320	173	941.8	3.94	1.932	0.1165	18.6	0.0641	61.5
340	410	924.6	2.96	1.992	0.1115	17.6	0.0605	48.9
360	880	907.4	2.29	2.052	0.1065	16.6	0.0575	39.8
380	1770	890.2	1.83	2.112	0.1015	15.6	0.054	33.6
400	3340	873.0	1.43	2.172	0.0965	14.6	0.0512	27.9
420	5980	855.8	1.20	2.232	0.0915	13.6	0.0481	24.9
440	9810	838.6	0.98	2.292	0.0865	12.6	0.0450	21.8
460	$1.57 \cdot 10^4$	821.4	0.82	2.352	0.0815	11.6	0.0424	19.3
480	$2.42 \cdot 10^4$	804.2	0.70	2.412	0.0765	10.6	0.0398	17.6
500	$3.63 \cdot 10^4$	787.0	0.60	2.472	0.0715	9.60	0.0371	16.2
520	$5.21 \cdot 10^4$	769.8	0.54	2.532	0.0665	8.60	0.0344	15.7
540	$7.26 \cdot 10^4$	752.9	0.49	2.592	0.0615	7.60	0.0315	15.5
560	$9.94 \cdot 10^4$ *	735.4	0.46	2.652	0.0565	6.60	0.0292	15.8
580	$1.33 \cdot 10^5$ *	718.2	0.43	2.712	0.0515	5.60	0.0266	16.2
600	$1.75 \cdot 10^5$	701.0	0.41	2.772	0.0465	4.68	0.0242	16.9
620	$2.26 \cdot 10^5$	683.8	0.39	2.832	0.0415	3.75	0.0216	18.1

A.5.16: Oligomethylethylsiloxane cyclic  $(\text{CH}_3)_6(\text{C}_2\text{H}_5)_6\text{Si}_6\text{O}_6$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
180	—	1072	2310	1.386	0.1530	26.1	0.1030	$2.2 \cdot 10^4$
200	0.009	1055	316	1.446	0.1480	25.1	0.0970	3260
220	0.089	1038	107	1.506	0.1430	24.1	0.0914	1170
240	0.50	1021	42.6	1.566	0.1380	23.1	0.0862	494
260	2.06	1004	18.5	1.626	0.1330	22.1	0.0815	227
280	7.97	987.4*	10.1*	1.686	0.1280	21.1	0.0770	131
300	29.90	970.5*	6.52*	1.746	0.1230	20.1	0.0727	89.7
320	84.60	953.6	4.42	1.806	0.1180	19.1	0.0687	64.3
340	201	936.7	3.25	1.866	0.1130	18.1	0.0647	50.2
360	422	919.8	2.45	1.926	0.1080	17.1	0.0610	40.2
380	920	902.9	1.91	1.986	0.1030	16.1	0.0574	33.3
400	1740	886.0	1.50	2.046	0.0980	15.1	0.0540	27.8
420	3180	869.1	1.23	2.106	0.0930	14.1	0.0507	24.3
440	5350	852.2	1.01	2.166	0.0880	13.1	0.0475	21.3
460	8570	835.3	0.84	2.226	0.0830	12.1	0.0446	18.8
480	$1.34 \cdot 10^4$	818.4	0.73	2.286	0.0780	11.1	0.0419	17.4
500	$2.01 \cdot 10^4$	801.5	0.64	2.346	0.0730	10.1	0.0391	16.4
520	$2.93 \cdot 10^4$	784.6	0.57	2.406	0.0680	9.10	0.0362	15.7
540	$4.14 \cdot 10^4$	767.7	0.52	2.466	0.0630	8.10	0.0332	15.6
560	$5.75 \cdot 10^4$	750.8	0.47	2.526	0.0580	7.12	0.0306	15.4
580	$7.75 \cdot 10^4$ *	733.9	0.43	2.586	0.0530	6.18	0.0281	15.3
600	$1.02 \cdot 10^5$ *	717.0	0.40	2.646	0.0480	5.30	0.0355	15.7
620	$1.33 \cdot 10^5$	700.1	0.37	2.726	0.0430	4.44	0.0228	16.2

## A.6: Oligodiethylsiloxanes

A.6.1: Oligodiethylsiloxane linear (C<sub>2</sub>H<sub>5</sub>)<sub>6</sub>Si<sub>2</sub>O

<i>T</i> , K	<i>p</i> , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	<i>c<sub>p</sub></i> , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
160	—	951	12000	1.586	0.1534	30.9	0.1029	1.2 · 10 <sup>5</sup>
180	—	935	2200	1.624	0.1501	29.5	0.0989	2.2 · 10 <sup>4</sup>
200	—	919	345	1.680	0.1468	28.1	0.0951	3628
220	—	903	86.8*	1.736	0.1435	26.7	0.0915	948
240	0.001	887	24.9*	1.792	0.1402	25.3	0.0882	282
260	0.043	871	9.58*	1.848*	0.1369	23.9	0.0851	113
280	0.761	855*	4.12*	1.904*	0.1336	22.5*	0.0821	50.2
300	7.12	839*	1.98*	1.960*	0.1303	21.1*	0.0792	25.0
320	42.70	823	1.30	2.016*	0.1270	19.7	0.0765	17.0
340	186	807	0.98	2.072*	0.1237	18.3	0.0740	13.3
360	626*	791	0.75	2.128*	0.1204	16.9	0.0715	10.5
380	1760*	775	0.61	2.184*	0.1171	15.5	0.0692	8.82
400	4268*	759	0.51	2.240	0.1138	14.1	0.0669	7.69
420	9190*	743	0.43	2.296	0.1105	12.7	0.0648	6.63
440	1.80 · 10 <sup>4</sup> *	727	0.36	2.352	0.1072	11.3	0.0629	5.72
460	3.25 · 10 <sup>4</sup> *	711	0.32	2.408	0.1039	9.90	0.0609	5.25
480	5.51 · 10 <sup>4</sup> *	695	0.28	2.464	0.1006	8.78	0.0589	4.75
500	8.83 · 10 <sup>4</sup> *	679	0.25	2.520	0.0973	7.65	0.0569	4.40
520	1.35 · 10 <sup>5</sup> *	663	0.23	2.576	0.0940	6.52	0.0550	4.18
540	1.98 · 10 <sup>5</sup>	647	0.21	2.632	0.0907	5.50	0.0532	3.95
560	2.81 · 10 <sup>5</sup>	631	0.20	2.688	0.0874	4.55	0.0515	3.88
580	3.86 · 10 <sup>5</sup>	615	0.19	2.744	0.0841	3.62	0.0498	3.81

A.6.2: Oligodiethylsiloxane linear (C<sub>2</sub>H<sub>5</sub>)<sub>8</sub>Si<sub>3</sub>O<sub>2</sub>

<i>T</i> , K	<i>p</i> , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	<i>c<sub>p</sub></i> , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
160	—	995	66600	1.523	0.1554	31.4	0.1025	6.5 · 10 <sup>5</sup>
180	—	981	4500	1.579	0.1522	30.1	0.0933	4.6 · 10 <sup>4</sup>
200	—	965	666*	1.635	0.1490	28.8	0.0944	7052
220	0.010	950	158*	1.691	0.1458	27.5	0.0908	1740
240	0.094	935	505*	1.747	0.1426	26.2	0.0873	578
260	0.622	919	18.60*	1.803*	0.1394	24.9	0.0841	221
280	3.13	904*	8.35*	1.859*	0.1362	23.6	0.0810	103
300	12.70	889*	4.01*	1.915*	0.1330	22.3	0.0781	51.3
320	43.30	874	2.39	1.971*	0.1298	21.0	0.0755	31.7
340	128	859	1.71	2.027*	0.1266	19.7	0.0730	23.4
360	334	844	1.27	2.083*	0.1234	18.4	0.0705	18.0
380	789*	829	1.01	2.139*	0.1202	17.1	0.0680	14.9
400	1712*	814	0.82	2.195	0.1170	15.8	0.0655	12.5
420	3450	798	0.70	2.251	0.1138	14.5	0.0633	11.1
440	6520	782	0.61	2.307	0.1106	13.2	0.0611	9.98
460	1.16 · 10 <sup>4</sup>	767	0.54	2.368	0.1074	11.9	0.0590	9.15
480	1.99 · 10 <sup>4</sup>	752	0.48	2.432	0.1042	10.6	0.0569	8.44
500	3.24 · 10 <sup>4</sup>	737	0.43	2.500	0.1010	9.30	0.0548	7.84
520	5.10 · 10 <sup>4</sup>	722	0.39	2.572	0.0978	8.16	0.0527	7.41
540	7.75 · 10 <sup>4</sup>	707	0.36	2.647	0.0946	7.02	0.0505	7.12
560	1.14 · 10 <sup>5</sup>	692	0.33	2.732	0.0914	5.98	0.0483	6.83
580	1.65 · 10 <sup>5</sup>	677	0.30	2.822	0.0882	4.98	0.0462	6.50

A.6.3: Oligodiethylsiloxane linear  $(C_2H_5)_3SiO[(C_2H_5)_2SiO]_2Si(C_2H_5)_3$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
140	0.000	1018	$77.7 \cdot 10^4$	1.542	0.1608	33.4	0.1024	$7.6 \cdot 10^6$
160	0.001	1004	$67.5 \cdot 10^4$	1.577	0.1577	32.1	0.0996	$6.8 \cdot 10^5$
180	0.015	989.6	8360	1.615	0.1546	30.8	0.0967	$8.6 \cdot 10^4$
200	0.154	975.0	1580*	1.655	0.1515	29.5	0.0939	$1.7 \cdot 10^4$
220	1.012	960.4	317*	1.697	0.1484	28.2	0.0911	3481
240	4.86	945.8	87.8*	1.741	0.1453	26.9	0.0883	925
260	18.30	931.2	31.6*	1.788*	0.1422	25.6	0.0854	370
280	57.30	916.6*	15.5*	1.841*	0.1391	24.3*	0.0824	188
300	154	902.0*	8.82*	1.892*	0.1360	23.0*	0.0797	111
320	365	887.4	5.28	1.946*	0.1329	21.7	0.0770	68.6
340	781*	872.8	3.46	2.000*	0.1298	20.4	0.0744	46.5
360	1538*	858.2	2.46	2.054*	0.1267	19.1	0.0719	34.2
380	2818	843.6	1.90	2.108*	0.1236	17.8	0.0695	27.3
400	4862	829.0	1.55	2.162	0.1205	16.5	0.0672	23.1
420	7966	814.4	1.31	2.216	0.1174	15.2	0.0651	20.1
440	$1.25 \cdot 10^4$	799.8	1.14	2.270	0.1143	13.9	0.0630	18.1
460	$1.88 \cdot 10^4$	785.2	0.99	2.324	0.1112	12.8	0.0609	16.2
480	$2.73 \cdot 10^4$	770.6	0.88	2.378	0.1081	11.5	0.0590	14.9
500	$3.86 \cdot 10^4$	756.0	0.78	2.432	0.1050	10.4	0.0571	13.6
520	$5.31 \cdot 10^4$	741.4	0.70	2.495	0.1019	9.32	0.0551	12.6
540	$7.14 \cdot 10^4$	726.8	0.64	2.561	0.0988	8.32	0.0531	12.0
560	$9.39 \cdot 10^4$	712.2	0.57	2.632	0.0957	7.35	0.0511	11.2
580	$1.21 \cdot 10^5$	697.6	0.52	2.707	0.0926	6.44	0.0490	10.6
600	$1.54 \cdot 10^5$	683.0	0.48	2.784	0.0895	5.61	0.0471	10.1
600	$1.92 \cdot 10^5$	668.4	0.44	2.872	0.0864	4.80	0.0450	9.7

A.6.4: Oligodiethylsiloxane linear  $(C_2H_5)_{12}Si_5O_4$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
180	0.004	1005	10200	1.586	0.1591	30.9	0.0998	$1.02 \cdot 10^5$
200	0.040	991.0	2075*	1.640	0.1560	29.7	0.0960	$2.16 \cdot 10^4$
220	0.176	976.9	491*	1.694	0.1529	28.5	0.0924	5314
240	0.75	962.8	142*	1.748	0.1498	27.3	0.0890	1595
260	3.15	948.7	51.7*	1.802*	0.1467	26.1	0.0858	602
280	13.0	934.6*	25.1*	1.856*	0.1436	24.9	0.0828	303
300	59.0	920.5*	14.1*	1.910*	0.1405	23.7	0.0799	176
320	214	906.4	9.81	1.964*	0.1374	22.5	0.0772	127
340	306	892.3	7.04	2.018*	0.1343	21.3	0.0746	94.4
360	644*	878.6	5.42	2.072*	0.1312	20.1	0.0721	75.2
380	1282*	864.1	4.26	2.126	0.1281	18.9	0.0697	61.1
400	2266*	850.0	3.38	2.180	0.1250	17.7	0.0675	50.1
420	4255	836.9	2.76	2.234	0.1219	16.5	0.0652	42.3
440	5216	821.8	2.31	2.288	0.1188	15.3	0.0632	36.6
460	7081	807.7	1.98	2.342	0.1157	14.1	0.0612	32.3
480	$1.06 \cdot 10^4$	793.6	1.73	2.396	0.1126	12.9	0.0592	29.2
500	$2.16 \cdot 10^4$	779.5	1.49	2.450	0.1095	11.7	0.0573	26.0
520	$2.96 \cdot 10^4$	765.4	1.31	2.504	0.1064	10.5	0.0555	23.6
540	$3.88 \cdot 10^4$	751.3	1.18	2.558	0.1033	9.5	0.0538	22.0
560	$5.20 \cdot 10^4$	737.0	1.06	2.612	0.1002	8.3	0.0521	20.4
580	$6.70 \cdot 10^4$	722.5	0.95	2.666	0.0971	7.4	0.0504	18.8
600	$8.71 \cdot 10^4$	707.7	0.88	2.720	0.0940	6.5	0.0488	18.0

A.6.5: Oligodiethylsiloxane linear  $(C_2H_5)_3SiO[(C_2H_5)_2SiO]_4Si(C_2H_5)_3$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
150	—	1040	$2.3 \cdot 10^5$	1.454	0.1647	33.2	0.1089	$2.1 \cdot 10^6$
160	0.000	1027	71800	1.506	0.1617	32.6	0.1045	$6.9 \cdot 10^5$
180	0.001	1013	13150	1.558	0.1587	31.4	0.1006	$1.3 \cdot 10^5$
200	0.005	999	2800*	1.610	0.1557	30.2	0.0968	$2.9 \cdot 10^4$
220	0.071	985	746*	1.662	0.1527	29.0	0.0933	7998
240	0.36	971	238*	1.714	0.1497	27.8	0.0899	2646
260	1.62	957	90.6*	1.766*	0.1467	26.6	0.0868	1044
280	7.47	943*	49.2*	1.818*	0.1437	25.4	0.0839	586
300	31.5	929*	21.2*	1.870*	0.1407	24.2	0.0810	262
320	79.8	915	13.5	1.922*	0.1377	23.0	0.0783	172
340	183	901	10.4	1.974*	0.1347	21.8	0.0757	137
360	388	887	8.39	2.026*	0.1317	20.6	0.0733	114
380	780*	873	6.77	2.078*	0.1287	19.4	0.0709	95.4
400	1462*	859	5.60	2.130	0.1257	18.2	0.0687	81.5
420	2525	845	4.61	2.182	0.1227	17.0	0.0667	69.1
440	4203	831	3.83	2.234	0.1197	15.8	0.0647	59.2
460	6681	817	3.22	2.286	0.1167	14.6	0.0627	51.4
480	9892	803	2.78	2.338	0.1137	13.4	0.0607	45.8
500	$1.46 \cdot 10^4$	789	2.37	2.390	0.1107	12.2	0.0587	40.4
520	$2.08 \cdot 10^4$	775	2.09	2.442	0.1077	11.0	0.0570	36.7
540	$2.86 \cdot 10^4$	761	1.88	2.494	0.1047	9.80	0.0553	34.0
560	$3.93 \cdot 10^4$	747	1.69	2.546	0.1017	8.68	0.0536	31.5
580	$5.22 \cdot 10^4$	733	1.52	2.598	0.0987	7.57	0.0519	29.3

A.6.6: Oligodiethylsiloxane linear  $(C_2H_5)_3SiO[(C_2H_5)_2SiO]_5Si(C_2H_5)_3$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
160	—	1033	152000	1.636	0.1625	32.2	0.0962	$1.6 \cdot 10^6$
180	—	1020	22000	1.663	0.1595	31.1	0.0940	$2.3 \cdot 10^5$
200	0.000	1006	4200*	1.693	0.1565	30.0	0.0919	$4.6 \cdot 10^4$
220	0.005	992.2	989*	1.726	0.1535	28.9	0.0896	$1.1 \cdot 10^4$
240	0.032	978.4	335*	1.759	0.1505	27.8	0.0874	3831
260	0.191	964.6	132*	1.794	0.1475	26.7	0.0852	1549
280	1.106	950.8*	60.1*	1.835*	0.1445	25.6*	0.0828	725
300	6.01	937.0*	30.2*	1.872*	0.1415	24.5*	0.0807	374
320	18.20	923.2	18.2	1.919	0.1385	23.4	0.0782	233
340	47.80	909.4	13.1	1.966	0.1355	22.3	0.0758	173
360	112	885.6	10.1	2.021	0.1325	21.2	0.0732	138
380	241	881.8	8.38	2.079	0.1295	20.1	0.0705	119
400	495	868.0	7.01	2.142	0.1265	19.0	0.0680	103
420	963*	854.2	5.86	2.205	0.1235	17.9	0.0656	89.4
440	1755*	840.4	5.03	2.268	0.1205	16.8	0.0632	79.6
460	2830*	826.6	4.34	2.331	0.1175	15.7	0.0610	71.2
480	4500*	812.8	3.70	2.394	0.1145	14.6	0.0588	62.9
500	7000*	799.0	3.19	2.457	0.1115	13.5	0.0568	56.2
520	$1.06 \cdot 10^{4*}$	785.2	2.76	2.523	0.1085	12.4	0.0548	50.4
540	$1.52 \cdot 10^{4*}$	771.4	2.46	2.588	0.1055	11.3	0.0528	46.6
560	$2.16 \cdot 10^{4*}$	757.6	2.24	2.656	0.1025	10.2	0.0509	44.0
580	$3.01 \cdot 10^{4*}$	743.8	1.99	2.724	0.0995	9.1	0.0491	40.5
600	$4.09 \cdot 10^{4*}$	730.0	1.84	2.792	0.0965	8.0	0.0473	38.9
620	$5.44 \cdot 10^4$	716.2	1.72	2.860	0.0935	6.9	0.0456	37.7
640	$7.10 \cdot 10^4$	702.4	1.62	2.928	0.0905	5.8	0.0440	36.8

A.6.7: Oligodiethylsiloxane cyclic  $[(C_2H_5)_2SiO]_3$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
290	1.4	968.8*	6.66	1.791*	0.1362	25.3*	0.0785	84.8
300	4.6	949.0*	3.21	1.812	0.1330	23.9*	0.0773	41.5
320	23	929.2	2.51	1.855	0.1298	22.5	0.0753	33.3
340	91	909.4	1.86	1.900	0.1268	21.1	0.0734	25.3
360	297	889.6	1.42	1.954	0.1234	19.7	0.0710	20.0
380	835*	869.8	1.18	2.019*	0.1202	18.3	0.0685	17.2
400	2068*	850.0	1.02	2.083	0.1170	16.9	0.0661	15.4
420	4618*	830.2	0.879	2.148	0.1138	15.5	0.0638	13.8
440	9455*	810.4	0.781	2.212	0.1106	14.1	0.0617	12.7
460	$1.89 \cdot 10^{4*}$	790.6	0.666	2.277	0.1074	12.7	0.0597	11.2
480	$3.21 \cdot 10^{4*}$	770.8	0.614	2.346	0.1042	11.3	0.0576	10.7
500	$5.44 \cdot 10^{4*}$	751.0	0.555	2.415	0.1010	9.90	0.0557	9.96
520	$8.79 \cdot 10^{4*}$	731.2	0.514	2.483	0.0978	8.50	0.0539	9.54
540	$1.36 \cdot 10^{5*}$	709.5	0.477	2.550	0.0946	7.10	0.0523	9.12
560	$2.04 \cdot 10^5$	686.9	0.451	2.623	0.0914	5.70	0.0505	8.93
580	$2.96 \cdot 10^5$	665.1	0.429	2.694	0.0882	4.30	0.0492	8.72
600	$4.17 \cdot 10^5$	624.0	0.411	2.776	0.0850	2.90	0.0491	8.38
620	$5.73 \cdot 10^5$	589.4	0.396	2.871	0.0818	1.85	0.0484	8.19
640	$7.70 \cdot 10^5$	544.0	0.385	2.993	0.0786	0.88	0.0483	7.98
660	$1.01 \cdot 10^6$	498.6	0.377	3.181	0.0740	0.28	0.0467	8.08
673.2	$1.205 \cdot 10^6$	268.2	0.371	$\infty$	0.0630	0.00	0.00	$\infty$

A.6.8: Oligodiethylsiloxane cyclic  $[(C_2H_5)_2SiO]_4$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
230	—	1029	1880	1.659	0.1478	29.4	0.0871	$2.16 \cdot 10^4$
240	0.001	1012	268	1.681	0.1446	28.1	0.0850	3160
260	0.012	994.4	62.5	1.721*	0.1414	26.8	0.0826	756
280	0.102	976.2*	20.8*	1.765*	0.1382	25.5	0.0802	259
300	0.653	958.0*	9.55*	1.809*	0.1350	24.2	0.0779	123
320	3.26	939.8	4.98	1.858*	0.1318	22.9	0.0755	66.0
340	13.3	921.6	3.09	1.908*	0.1286	21.6	0.0731	42.3
360	45.9	903.4	2.22	1.963*	0.1254	20.3	0.0707	31.4
380	138*	885.2	1.74	2.023*	0.1222	19.0	0.0682	25.5
400	370*	867.0	1.43	2.090	0.1190	17.7	0.0657	21.8
420	900*	848.8	1.20	2.151	0.1150	16.4	0.0634	18.8
440	2010*	830.6	1.02	2.217	0.1126	15.1	0.0612	16.7
460	4171*	812.4	0.90	2.283	0.1094	13.8	0.0590	15.2
480	8123*	794.2	0.80	2.349	0.1062	12.5	0.0569	14.1
500	$1.50 \cdot 10^{4*}$	776.0	0.73	2.416	0.1030	11.2	0.0549	13.3
520	$2.63 \cdot 10^{4*}$	757.8	0.67	2.482	0.0998	9.90	0.0531	12.6
540	$4.41 \cdot 10^{4*}$	739.6	0.62	2.548	0.0966	8.60	0.0513	12.1
560	$7.14 \cdot 10^{4*}$	721.4	0.58	2.616	0.0934	7.30	0.0495	11.7
580	$1.12 \cdot 10^{5*}$	703.2	0.55	2.687	0.0902	6.00	0.0477	11.5
600	$1.69 \cdot 10^5$	685.0	0.52	2.759	0.0870	4.70	0.0460	11.3
620	$2.49 \cdot 10^5$	664.6	0.50	2.837	0.0838	3.42	0.0444	11.1
640	$3.58 \cdot 10^5$	629.6	0.47	2.933	0.0806	2.20	0.0437	10.8
660	$5.03 \cdot 10^5$	579.8	0.45	3.086	0.0770	1.27	0.0431	10.5
680	$6.92 \cdot 10^5$	495.5	0.44	3.933	0.0731	0.44	0.0372	11.8
698.2	$9.10 \cdot 10^5$	266.6	0.435	$\infty$	0.060	0.00	0.00	$\infty$

A.6.9: Oligodiethylsiloxane cyclic  $[(C_2H_5)_2SiO]_5$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
240	—	1016	452	1.693	0.1468	29.5	0.0854	5295
260	—	998	115	1.729*	0.1437	28.2	0.0833	1381
280	—	980*	36.3*	1.768*	0.1406	26.9*	0.0812	447
300	0.002	962*	13.8*	1.810*	0.1375	25.6*	0.0790	175
320	0.055	944	7.48	1.856*	0.1344	24.3	0.0767	97.5
340	0.681	926	4.64	1.903*	0.1313	23.0	0.0745	62.4
360	5.02	908	3.44	1.952*	0.1282	21.7	0.0723	47.6
380	25.40	890	2.63	2.001*	0.1251	20.4	0.0702	37.4
400	97.40	872	2.04	2.062	0.1220	19.1	0.0678	30.1
420	302	854	1.68	2.123	0.1188	17.8	0.0655	25.6
440	792	836	1.41	2.184	0.1158	16.5	0.0634	22.2
460	1824	818	1.19	2.245	0.1127	15.2	0.0613	19.4
480	3774	800	1.02	2.305	0.1096	13.9	0.0594	17.2
500	7160	782	0.90	2.366	0.1065	12.6	0.0576	15.6
520	$1.58 \cdot 10^4$	764	0.82	2.427	0.1034	11.3	0.0558	14.8
540	$2.09 \cdot 10^4$	746	0.76	2.490	0.1003	10.0	0.0540	14.1
560	$3.30 \cdot 10^4$	728	0.70	2.553	0.0972	8.72	0.0523	13.3
580	$4.98 \cdot 10^4$	710	0.65	2.616	0.0941	7.50	0.0508	12.8
600	$7.23 \cdot 10^4*$	692	0.61	2.669	0.0910	6.38	0.0493	12.5
620	$1.02 \cdot 10^5*$	674	0.58	2.743	0.0879	5.31	0.0476	12.3
640	$1.39 \cdot 10^5$	656	0.56	2.836	0.0848	4.35	0.0456	12.3

A.6.10: Oligodiethylsiloxane cyclic  $[(C_2H_5)_2SiO]_6$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
240	0.46	1013	1080	1.695	0.1513	29.8	0.0881	$1.2 \cdot 10^4$
260	1.40	996	164	1.735	0.1482	27.8	0.0858	1910
280	3.90	979*	44.3*	1.781*	0.1451	26.6	0.0832	532
300	9.96	962*	18.9*	1.827*	0.1420	25.4	0.0808	234
320	23.50	945	11.1	1.874*	0.1389	24.2	0.0784	142
340	52.10	928	7.86	1.921*	0.1358	23.0	0.0762	103
360	108	911	5.76	1.968*	0.1327	21.8	0.0740	77.8
380	213	894	4.26	2.015*	0.1296	20.6	0.0719	59.2
400	401	877	3.32	2.062	0.1265	19.4	0.0700	47.5
420	723	860	2.69	2.109	0.1234	18.2	0.0680	39.5
440	1253*	843	2.28	2.156	0.1203	17.0	0.0662	34.4
460	2097*	826	2.01	2.203	0.1172	15.8	0.0644	31.2
480	3400	809	1.77	2.250	0.1141	14.6	0.0627	28.2
500	5360	792	1.58	2.297	0.1110	13.4	0.0610	25.8
520	8225	775	1.43	2.346	0.1079	12.2	0.0593	24.1
540	$1.23 \cdot 10^4$	758	1.29	2.403	0.1048	11.0	0.0575	22.4
560	$1.81 \cdot 10^4$	741	1.21	2.465	0.1017	9.80	0.0557	21.7
580	$2.59 \cdot 10^4$	724	1.12	2.530	0.0986	8.65	0.0538	20.8
600	$3.65 \cdot 10^4$	707	1.06	2.602	0.0955	7.46	0.0519	20.4
620	$5.06 \cdot 10^4$	690	1.01	2.675	0.0924	6.38	0.0501	20.2
640	$6.89 \cdot 10^4$	672	0.94	2.748	0.0893	5.31	0.0484	19.4

## A.7: Oligomethylphenylsiloxanes Linear

A.7.1: Oligomethylphenylsiloxane *MM* (CH<sub>3</sub>)<sub>3</sub>SiOSi(CH<sub>3</sub>)<sub>2</sub>(C<sub>6</sub>H<sub>5</sub>)

<i>T</i> , K	<i>p</i> , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.003	991.0	110	1.505	0.1346	41.7	0.0903	1220
220	0.044	969.9	22.7	1.550	0.305	39.5	0.0868	263
240	0.42	948.8	7.09	1.600	0.1264	37.3	0.0833	85.2
260	2.78	927.7	3.23	1.655*	0.1223	35.1	0.0797	40.5
280	14.10	906.6*	2.05*	1.710*	0.1182	32.9	0.0762	26.9
300	57.90	885.5*	1.47*	1.770*	0.1141	30.7	0.0728	20.2
320	198	864.4	1.07	1.830*	0.1100	28.5	0.0695	15.4
340	589*	843.3	0.83	1.890*	0.1059	26.3	0.0664	12.5
360	1550*	822.2	0.66	1.950*	0.1018	24.1	0.0635	10.4
380	2416*	801.1	0.54	2.010*	0.0977	21.9	0.0607	8.90
400	8017*	780.0	0.46	2.070	0.0936	19.7	0.0580	7.94
420	1.62 · 10 <sup>4*</sup>	758.9	0.40	2.130	0.0895	17.5	0.0554	7.22
440	3.08 · 10 <sup>4*</sup>	737.8	0.33	2.190	0.0854	15.3	0.0523	6.24
460	5.52 · 10 <sup>4*</sup>	716.7	0.28	2.250	0.0813	13.1	0.0504	5.55
480	9.44 · 10 <sup>4*</sup>	695.6	0.26	2.310	0.0772	10.9	0.0480	5.41
500	1.55 · 10 <sup>5*</sup>	674.5	0.24	2.370	0.0731	8.7	0.0457	5.25
520	2.44 · 10 <sup>5</sup>	653.4	0.23	2.430	0.0690	6.6	0.0435	5.29
540	3.71 · 10 <sup>5</sup>	632.3	0.22	2.480	0.0649	4.8	0.0412	5.34
560	5.49 · 10 <sup>5</sup>	611.2	0.21	2.550	0.0608	3.2	0.0390	5.38
580	7.91 · 10 <sup>6</sup>	581.4	0.21	2.625	0.0567	1.9	0.0372	5.52
600	1.11 · 10 <sup>6</sup>	541.6	0.20	2.870	0.0526	0.9	0.0338	5.91

A.7.2: Oligomethylphenylsiloxane *M'M'* (CH<sub>3</sub>)<sub>2</sub>(C<sub>6</sub>H<sub>5</sub>)SiOSi(CH<sub>3</sub>)<sub>2</sub>(C<sub>6</sub>H<sub>5</sub>)

<i>T</i> , K	<i>p</i> , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.000	1069	109	1.365	0.1344	41.4	0.0921	1184
220	0.001	1049	33.3	1.415	0.1307	39.3	0.0881	380
240	0.011	1029	14.9	1.467	0.1270	37.2	0.0841	177
260	0.07	1009	7.98	1.522*	0.1233	35.1	0.0803	99.4
280	0.39	989.4*	5.05*	1.580*	0.1196	33.0	0.0765	66.0
300	1.70	969.5*	3.33*	1.638*	0.1159	30.9	0.0730	45.6
320	6.43	949.6	2.42	1.696*	0.1122	28.8	0.0697	34.7
340	21.40	929.7	1.86	1.754*	0.1085	26.7	0.0665	28.0
360	63.50	909.8	1.46	1.812*	0.1048	24.6	0.0636	23.0
380	171	889.9	1.17	1.870*	0.1011	22.5	0.0608	19.3
400	425*	870.0	0.97	1.928	0.0974	20.4	0.0581	16.7
420	978*	850.1	0.81	1.986	0.0937	18.3	0.0555	14.6
440	2109*	830.2	0.68	2.044	0.0900	16.3	0.0530	12.8
460	4291*	810.3	0.59	2.102	0.0863	14.5	0.0508	11.6
480	8292*	790.4	0.52	2.160	0.0826	12.8	0.0484	10.7
500	1.53 · 10 <sup>4*</sup>	770.5	0.46	2.218	0.0789	11.3	0.0462	9.96
520	2.71 · 10 <sup>4*</sup>	750.6	0.42	2.276	0.0752	10.0	0.0441	9.54
540	4.62 · 10 <sup>4*</sup>	730.7	0.39	2.334	0.0715	8.9	0.0419	9.30
560	7.61 · 10 <sup>4*</sup>	710.8	0.36	2.392	0.0678	8.0	0.0399	9.03
580	1.22 · 10 <sup>5*</sup>	690.9	0.34	2.450	0.0641	7.2	0.0379	8.98
600	1.89 · 10 <sup>5</sup>	671.0	0.32	2.508	0.0604	6.5	0.0359	8.92

A.7.3: Oligomethylphenylsiloxane  $M'M''$   $(\text{CH}_3)_2(\text{C}_6\text{H}_5)\text{SiOSi}(\text{CH}_3)(\text{C}_6\text{H}_5)_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
240	0.001	1094	323	1.400	0.1278	37.2	0.0834	3870
260	0.008	1077	86.1	1.454*	0.1244	35.2	0.0794	1084
280	0.039	1060*	29.4*	1.508*	0.1210	33.2	0.0757	388
300	0.167	1042*	12.4*	1.562*	0.1176	31.2	0.0723	172
320	0.621	1024	6.93	1.616*	0.1142	29.2	0.0690	100
340	2.07	1007	4.62	1.670*	0.1108	27.2	0.0659	70.1
360	6.30	989.2	3.49	1.724*	0.1074	25.2	0.0630	55.4
380	17.60	971.6	2.65	1.778*	0.1040	23.2	0.0602	44.0
400	45.50	954.0	2.04	1.832	0.1006	21.2	0.0576	35.4
420	111	936.4	1.70	1.886	0.0972	19.3	0.0550	30.9
440	252	918.8	1.42	1.940	0.0938	17.5	0.0526	27.0
460	547	901.2	1.20	1.994	0.0904	15.7	0.0503	23.9
480	1126*	883.6	1.04	2.048	0.0870	14.2	0.0481	21.6
500	2218*	866.0	0.92	2.102	0.0836	12.8	0.0459	20.0
520	4197*	848.4	0.81	2.156	0.0802	11.6	0.0439	18.5
540	7652*	830.8	0.73	2.210	0.0768	10.5	0.0418	17.5
560	$1.35 \cdot 10^4$ *	813.2	0.66	2.264	0.0734	9.5	0.0399	16.6
580	$2.30 \cdot 10^4$ *	795.6	0.62	2.318	0.0700	8.6	0.0379	16.4
600	$3.83 \cdot 10^4$ *	778.0	0.58	2.372	0.0666	7.8	0.0361	16.1
620	$6.19 \cdot 10^4$ *	760.4	0.55	2.426	0.0632	7.1	0.0343	16.1
640	$9.77 \cdot 10^4$ *	742.8	0.52	2.480	0.0598	6.5	0.0325	16.0

A.7.4: Oligomethylphenylsiloxane  $M''M'''$   $(\text{CH}_3)(\text{C}_6\text{H}_5)_2\text{SiOSi}(\text{CH}_3)(\text{C}_6\text{H}_5)_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
320	0.181	1068*	27.4*	1.645	0.1163	36.6*	0.0662	414
340	0.342	1052*	11.6*	1.701	0.1131	34.7*	0.0632	184
360	1.06	1036*	6.86*	1.757	0.1099	32.9*	0.0604	114
380	3.01	1020*	5.00*	1.793	0.1067	31.0*	0.0583	85.7
400	8.00	1004*	3.92*	1.849	0.1035	29.2*	0.0558	70.3
420	20	987.6*	3.05*	1.905	0.1003	27.4	0.0533	57.2
440	47	971.2*	2.55*	1.961	0.0971	25.5	0.0510	50.0
460	105	954.8*	2.13*	2.017	0.0939	23.7	0.0488	43.7
480	225	938.4*	1.84*	2.073	0.0907	21.8	0.0466	39.5
500	460	922.0*	1.58*	2.129	0.0875	20.0	0.0446	35.4
520	903*	905.6*	1.38*	2.185	0.0843	18.2	0.0426	32.4
540	1711*	889.2*	1.22*	2.241	0.0811	16.6	0.0407	30.0
560	3134*	872.8	1.10	2.297	0.0779	15.2	0.0389	28.3
580	5565*	856.4	1.01	2.353	0.0747	14.0	0.0371	27.2
600	9601*	840.0	0.92	2.409	0.0715	12.9	0.0353	26.0
620	$1.61 \cdot 10^4$ *	823.6	0.86	2.465	0.0683	11.8	0.0336	25.6
640	$2.64 \cdot 10^4$ *	807.2	0.81	2.521	0.0651	10.8	0.0320	25.4
660	$4.23 \cdot 10^4$ *	790.8	0.77	2.577	0.0619	9.8	0.0304	25.4
680	$6.64 \cdot 10^4$ *	774.4	0.73	2.633	0.0587	8.8	0.0288	25.4
700	$1.02 \cdot 10^5$	758.0	0.69	2.689	0.0555	7.8	0.0272	25.3
720	$1.54 \cdot 10^5$	741.6	0.65	2.745	0.0523	6.9	0.0257	25.3



A.7.5: Oligomethylphenylsiloxane  $MD'M''$   
 $(CH_3)_3SiO[(CH_3)(C_6H_5)SiO]Si(C_6H_5)_2(CH_3)$

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
220	—	1098	168	1.400	0.1312	37.76	0.0864	1945
240	—	1079	67.2	1.450	0.1226	36.02	0.0828	811
260	—	1060*	33.3	1.504*	0.1264	34.28	0.0793	420
280	—	1041*	18.6*	1.558*	0.1232	32.54*	0.0760	245
300	0.02	1022*	11.1*	1.612*	0.1200	30.80*	0.0728	152
320	0.1	1003*	7.1*	1.666*	0.1168	29.06*	0.0699	102
340	0.4	983.6*	4.7*	1.720*	0.1136	27.32*	0.0672	65.5
360	1.4	964.4*	3.35*	1.774*	0.1104	25.58	0.0646	51.9
380	4.1	945.2*	2.50*	1.828*	0.1072	23.84	0.0620	40.3
400	12.0	926.0*	1.91	1.882	0.1040	22.10	0.0597	32.0
420	33.5	906.8*	1.50	1.936	0.1012	20.36	0.0574	26.1
440	96.0	887.6	1.22	1.990	0.0980	18.66	0.0553	22.1
460	250	868.4	1.04	2.044	0.0948	17.06	0.0533	19.5
480	590*	849.2	0.91	2.098	0.0912	15.56	0.0513	17.7
500	1270*	830.0	0.81	2.152	0.0880	14.16	0.0493	16.5
520	2400*	810.8	0.73	2.206	0.0848	12.86	0.0474	15.4
540	4250*	791.6	0.66	2.260	0.0816	11.66	0.0456	14.5
560	7300*	772.4	0.61	2.314	0.0784	10.46	0.0439	13.9
580	$1.22 \cdot 10^{4*}$	753.2	0.57	2.368	0.0752	9.36	0.0422	13.4
600	$1.91 \cdot 10^{4*}$	734.0	0.53	2.422	0.0720	8.26	0.0405	13.1
620	$2.95 \cdot 10^{4*}$	714.8	0.49	2.476	0.0688	7.28	0.0389	12.6
640	$4.54 \cdot 10^{4*}$	695.6	0.45	2.530	0.0656	6.30	0.0373	12.0

A.7.6: Oligomethylphenylsiloxane  $MD_2M$   $(CH_3)_3SiO[(CH_3)(C_6H_5)SiO]_2Si(CH_3)_3$

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
200	—	1069	1840	1.345	0.1355	40.9	0.0942	$2.0 \cdot 10^4$
220	—	1050	340	1.402	0.1324	39.2	0.0899	3780
240	—	1030	67.8	1.458	0.1293	37.5	0.0861	787
260	—	1011	20.8	1.513	0.1262	35.8	0.0825	252
280	—	981.4*	10.0*	1.569*	0.1231	34.1	0.0791	126
300	—	972.0*	6.00*	1.625*	0.1200	32.4	0.0760	80.0
320	0.10	952.6	4.00	1.681	0.1169	30.7	0.0730	54.8
340	1.0	933.2	2.87	1.727	0.1138	29.0	0.0704	40.8
360	6.4	913.8	2.18	1.783	0.1107	27.3	0.0678	32.2
380	28	894.4	1.78	1.839	0.1076	25.6	0.0652	27.3
400	88	875.0	1.48	1.905	0.1045	23.9	0.0627	23.6
420	250	855.6	1.26	1.961	0.1014	22.2	0.0606	20.8
440	700*	836.2	1.08	2.017	0.0983	20.5	0.0585	18.5
460	1820*	816.8	0.96	2.073	0.0952	18.8	0.0564	17.0
480	3950*	797.4	0.86	2.129	0.0921	17.1	0.0544	15.8
500	7900*	778.0	0.78	2.185	0.0890	15.4	0.0524	14.9
520	$1.47 \cdot 10^{4*}$	758.6	0.70	2.241	0.0859	13.7	0.0506	13.8
540	$2.55 \cdot 10^{4*}$	739.2	0.65	2.297	0.0828	12.1	0.0488	13.3
560	$4.20 \cdot 10^{4*}$	719.8	0.60	2.353	0.0797	10.6	0.0471	12.7
580	$6.60 \cdot 10^{4*}$	700.4	0.55	2.409	0.0766	9.2	0.0454	12.1
600	$9.90 \cdot 10^{4*}$	681.0	0.50	2.469	0.0735	7.9	0.0437	11.4

A.7.7: Oligomethylphenylsiloxane  $M'D'M''$   
 $(\text{CH}_3)_2(\text{C}_6\text{H}_5)\text{SiO}[(\text{CH}_3)(\text{C}_6\text{H}_5)\text{SiO}]_n\text{Si}(\text{CH}_3)(\text{C}_6\text{H}_5)_2$

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
240	—	1117	223	1.386	0.1300	39.0	0.0840	2656
260	—	1097*	74.2	1.438*	0.1270	37.4	0.0805	922
280	—	1076*	34.1	1.494*	0.1240	35.8*	0.0771	442
300	—	1055*	18.2	1.550*	0.1210	34.2*	0.0740	246
320	—	1034*	11.1*	0.606*	0.1180	32.6*	0.0713	156
340	—	1013*	7.20*	1.662*	0.1150	31.0*	0.0686	105
360	—	992*	5.38*	1.718*	0.1120	29.4*	0.0660	81.5
380	0.005	971*	4.08*	1.774*	0.1090	27.8*	0.0634	64.4
400	0.07	950	3.15	1.830	0.1060	26.2*	0.0610	51.7
420	0.58	929	2.60	1.886	0.1030	24.6	0.0590	44.1
440	3.40	908	2.15	1.942	0.1000	23.0	0.0570	37.4
460	15.1	887	1.74	1.998	0.0970	21.4	0.0550	31.6
480	54.2	866	1.48	2.054	0.0940	19.8	0.0530	27.9
500	164	845	1.27	2.110	0.0910	18.2	0.0510	24.9
520	432	824	1.10	2.166	0.0880	16.7	0.0494	22.3
540	1017*	803	0.97	2.222	0.0850	15.3	0.0478	20.3
560	2174*	782	0.86	2.278	0.0820	14.0	0.0462	18.6
580	4291*	761	0.76	2.334	0.0790	12.8	0.0446	17.0
600	7912*	740	0.69	2.390	0.0760	11.7	0.0430	16.1
620	$1.37 \cdot 10^4$	719	0.63	2.446	0.0730	10.7	0.0415	15.2
640	$2.78 \cdot 10^4$	698	0.59	2.502	0.0700	9.8	0.0401	14.7
660	$3.61 \cdot 10^4$	677	0.55	2.558	0.0670	8.9	0.0387	14.2

A.7.8: Oligomethylphenylsiloxane  $MD'M'''$   $(\text{CH}_3)_3\text{SiO}[(\text{CH}_3)(\text{C}_6\text{H}_5)\text{SiO}]_n\text{Si}(\text{C}_6\text{H}_5)_3$

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
260	—	1093*	2555	1.480*	0.1265	34.0	0.0782	$3.3 \cdot 10^4$
280	—	1076*	610*	1.515*	0.1235	32.6*	0.0758	8051
300	—	1059*	179*	1.560*	0.1205	31.2*	0.0730	2454
320	—	1042*	53.5	1.614*	0.1175	29.8*	0.0699	766
340	—	1024*	23.4	1.668*	0.1145	28.4*	0.0670	349
360	0.02	1007*	13.1	1.722*	0.1115	27.0*	0.0643	204
380	0.17	990.2*	9.12	1.776*	0.1085	25.6*	0.0618	148
400	0.96	973.0	6.75	1.830	0.1055	24.3*	0.0593	114
420	4.50	955.8	5.25	1.900	0.1025	23.0	0.0566	92.8
440	16	938.6	4.14	1.968	0.0995	21.7	0.0539	76.9
460	53	921.4	3.83	2.035	0.0965	20.5	0.0515	74.4
480	140	904.2	2.49	2.105	0.0935	19.3	0.0492	50.6
500	365	887.0	2.09	2.175	0.0905	18.2	0.0469	44.6
520	790*	869.8	1.80	2.250	0.0875	17.1	0.0449	40.1
540	1720*	852.6	1.55	2.325	0.0845	16.1	0.0429	36.1
560	3170*	835.4	1.35	2.400	0.0815	15.1	0.0409	33.0
580	5880*	818.2	1.18	2.475	0.0785	14.1	0.0389	30.3
600	9990*	801.0	1.04	2.555	0.0755	13.1	0.0369	28.2
620	$1.67 \cdot 10^4$ *	783.8	0.91	2.635	0.0725	12.1	0.0351	25.9
640	$2.72 \cdot 10^4$ *	766.6	0.82	2.715	0.0695	11.2	0.0334	24.6
660	$4.38 \cdot 10^4$ *	749.1	0.73	2.795	0.0665	10.3	0.0317	23.0

A.7.9: Oligomethylphenylsiloxane  $M''DM''$   
 $(\text{CH}_3)(\text{C}_6\text{H}_5)_2\text{SiO}[(\text{CH}_3)_2\text{SiO}]\text{Si}(\text{CH}_3)(\text{C}_6\text{H}_5)_2$

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
240	—	1107	25400	1.402	0.1315	37.3	0.0847	$3.0 \cdot 10^5$
260	—	1091	5100	1.451	0.1285	35.8	0.0812	$6.3 \cdot 10^4$
280	—	1075*	690*	1.506*	0.1255	34.3	0.0775	8900
300	—	1059*	150*	1.561*	0.1225	32.8	0.0741	2026
320	—	1042	47.5*	1.616	0.1195	31.3	0.0710	670
340	—	1026	17.8*	1.671	0.1165	29.8	0.0680	262
360	—	1009	9.7*	1.726	0.1135	28.5	0.0652	149
380	0.004	992.6	6.5*	1.781	0.1105	27.0	0.0625	104
400	0.07	976.0	4.8*	1.836	0.1075	25.7	0.0600	80.0
420	0.64	959.4	3.8*	1.891	0.1035	24.4	0.0578	65.7
440	4.00	942.8	3.07*	1.946	0.1005	23.1	0.0556	55.2
460	18	926.2	2.53*	2.001	0.0985	21.8	0.0534	47.4
480	66	909.6	2.12*	2.056	0.0955	20.5	0.0512	41.4
500	206	893.0	1.80*	2.111	0.0925	19.2	0.0491	36.7
520	515	876.4	1.55*	2.166	0.0895	18.0	0.0474	32.7
540	1180*	859.8	1.35*	2.221	0.0865	16.8	0.0456	29.6
560	2340*	843.2	1.17	2.276	0.0835	15.6	0.0438	26.7
580	4500*	826.6	1.02	2.331	0.0805	14.4	0.0419	24.3
600	8100*	810.0	0.90	2.386	0.0775	13.2	0.0401	22.4
620	$1.38 \cdot 10^{4*}$	793.4	0.80	2.475	0.0745	12.2	0.0384	20.8
640	$2.17 \cdot 10^{4*}$	776.8	0.72	2.542	0.0715	11.2	0.0365	19.7

A.7.10: Oligomethylphenylsiloxane  $M'D'M'''$   
 $(\text{CH}_3)_2(\text{C}_6\text{H}_5)\text{SiO}[(\text{CH}_3)(\text{C}_6\text{H}_5)\text{SiO}]\text{Si}(\text{C}_6\text{H}_5)_3$

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
260	—	1124*	7000	1.400*	0.1281	39.6	0.0814	$8.6 \cdot 10^4$
280	—	1104*	1200	1.450*	0.1253*	37.9*	0.0787	$1.5 \cdot 10^4$
300	—	1083*	230	1.505*	0.1225*	36.2*	0.0752	3060
320	—	1062*	55.5*	1.560*	0.1197	34.5*	0.0723	768
340	—	1042*	23.6*	1.615*	0.1169	32.8*	0.0695	340
360	—	1021*	13.2*	1.670*	0.1141	31.1*	0.0669	197
380	0.02	1001*	9.12*	1.725*	0.1113	29.4*	0.0645	141
400	0.11	980.0	6.75	1.780	0.1085	27.7*	0.0622	108
420	0.46	959.4	5.25	1.840	0.1057	26.0	0.0598	87.8
440	1.62	938.8	4.15	1.910	0.1029	24.3	0.0574	72.3
460	4.91	918.2	3.38	1.980	0.1001	22.7	0.0550	61.5
480	15.20	897.6	2.82	2.065	0.0973	21.1	0.0527	53.5
500	47.50	877.0	2.37	2.140	0.0945	19.6	0.0504	47.1
520	121	856.4	2.02	2.215	0.0917	18.1	0.0485	41.6
540	275	835.8	1.76	2.290	0.0889	16.6	0.0467	37.7
560	610*	815.2	1.51	2.365	0.0861	15.1	0.0449	33.6
580	1280*	794.6	1.33	2.470	0.0833	14.0	0.0431	30.9
600	2560*	774.0	1.17	2.515	0.0805	12.9	0.0414	28.2
620	4850*	753.4	1.04	2.590	0.0717	11.8	0.0399	26.1
640	8300*	732.8	0.92	2.665	0.0749	10.7	0.0384	24.0
660	$1.38 \cdot 10^{4*}$	712.2	0.83	2.745	0.0721	9.6	0.0369	22.5

A.7.11: Oligomethylphenylsiloxane  $M''D'M''$   
 $(\text{CH}_3)(\text{C}_6\text{H}_5)_2\text{SiO}[(\text{CH}_3)(\text{C}_6\text{H}_5)\text{SiO}]_n\text{Si}(\text{CH}_3)(\text{C}_6\text{H}_5)_2$

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
260	—	1121	2620	1.410*	0.1256	36.8	0.0795	$3.3 \cdot 10^4$
280	—	1106*	558*	1.461*	0.1248	35.4*	0.0772	7224
300	—	1091*	168*	1.515*	0.1220	34.0*	0.0738	2276
320	—	1076*	57.8	1.569*	0.1192	32.6*	0.0706	819
340	—	1061*	26.1	1.623*	0.1164	31.2*	0.0680	384
360	—	1045*	13.0	1.677*	0.1136	29.9*	0.0652	200
380	0.03	1030*	7.68	1.731*	0.1108	28.6*	0.0624	124
400	0.18	1015*	5.50	1.785	0.1080	27.3*	0.0596	92.3
420	0.81	1000*	4.27	1.845	0.1052	26.1	0.0568	75.2
440	3.10	984.6*	3.42	1.900	0.1024	24.9	0.0548	62.4
460	10.20	969.4*	2.80	1.955	0.0996	23.7	0.0529	53.0
480	29.60	954.2*	2.25	2.010	0.0968	22.5	0.0512	44.0
500	77.30	939.0*	1.92	2.065	0.0940	21.3	0.0485	39.6
520	184	923.8*	1.65	2.120	0.0912	20.1	0.0466	35.4
540	406	908.6	1.45	2.175	0.0884	18.9	0.0448	32.4
560	835*	893.4	1.26	2.230	0.0856	17.7	0.0430	29.3
580	1620*	878.2	1.13	2.290	0.0828	16.6	0.0412	27.4
600	2970*	863.0	1.01	2.350	0.0800	15.5	0.0394	25.6
620	5210*	847.8	0.92	2.410	0.0772	14.4	0.0384	24.0
640	8760*	832.6	0.84	2.470	0.0744	13.4	0.0362	23.2
660	$1.42 \cdot 10^4$ *	817.4	0.78	2.530	0.0716	12.4	0.0346	22.5

A.7.12: Oligomethylphenylsiloxane  $MD'_3M$   $(\text{CH}_3)_3\text{SiO}[(\text{CH}_3)(\text{C}_6\text{H}_5)\text{SiO}]_n\text{Si}(\text{CH}_3)_3$

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
180	—	1125	25500	1.316	0.1405	39.3	0.0949	$2.7 \cdot 10^5$
200	—	1106	4300	1.370	0.1377	38.0	0.0909	$4.7 \cdot 10^4$
220	—	1087	920	1.424	0.1349	36.7	0.0872	$1.1 \cdot 10^4$
240	—	1068	226	1.478	0.1321	35.4	0.0837	2701
260	—	1048	72.7	1.532*	0.1293	34.1	0.0805	903
280	—	1029*	28.2*	1.586*	0.1265	32.8	0.0775	364
300	—	1010*	12.2*	1.640*	0.1237	31.5	0.0747	163
320	0.03	990.8	6.40	1.694*	0.1209	30.2	0.0724	88.4
340	0.15	971.6	3.96	1.748*	0.1181	29.0	0.0700	56.6
360	0.72	952.4	2.58	1.802*	0.1153	27.8	0.0676	38.2
380	2.70	933.2	1.82	1.856*	0.1125	26.6	0.0652	27.9
400	9.30	914.0	1.34	1.910	0.1097	25.4	0.0628	21.3
420	31	894.8	1.06	2.000	0.1169	24.2	0.0602	17.6
440	84	875.6	0.86	2.090	0.1041	23.0	0.0575	15.0
460	213	856.4	0.71	2.180	0.1013	21.9	0.0548	13.0
480	500	837.2	0.60	2.270	0.0985	20.8	0.0522	11.5
500	1095*	818.0	0.49	2.360	0.0957	19.7	0.0496	9.97
520	2270*	798.8	0.42	2.460	0.0929	18.6	0.0473	8.97
540	4400*	779.6	0.37	2.560	0.0901	17.5	0.0451	8.20
560	8270*	760.4	0.32	2.670	0.0873	16.4	0.0430	7.44
580	$1.42 \cdot 10^4$ *	741.2	0.28	2.780	0.0845	15.4	0.0410	6.83
600	$2.48 \cdot 10^4$ *	722.0	0.25	2.890	0.0817	14.4	0.0392	6.38
620	$4.22 \cdot 10^4$ *	702.8	0.23	3.000	0.0789	13.4	0.0376	6.12
640	$6.71 \cdot 10^4$ *	683.6	0.20	3.110	0.0761	12.5	0.0360	5.56
660	$1.10 \cdot 10^4$ *	664.4	0.19	3.220	0.0733	11.6	0.0344	5.38

A.7.13: Oligomethylphenylsiloxane  $M''D'_2M''$   
 $(\text{CH}_3)(\text{C}_6\text{H}_5)_2\text{SiO}[(\text{CH}_3)(\text{C}_6\text{H}_5)\text{SiO}]_2\text{Si}(\text{CH}_3)(\text{C}_6\text{H}_5)_2$

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
260	—	1131	$1.02 \cdot 10^4$	1.406*	0.1312	34.11	0.0825	$1.2 \cdot 10^5$
280	—	1118*	1400*	1.458*	0.1286	33.03*	0.0789	$1.8 \cdot 10^4$
300	—	1105*	280*	1.510*	0.1260	31.95*	0.0755	3710
320	—	1090*	73.8*	1.562*	0.1234	30.87*	0.0725	1020
340	—	1075*	29.4*	1.614*	0.1208	29.79*	0.0704	487
360	—	1060*	15.4*	1.666*	0.1182	28.71*	0.0682	226
380	0.01	1045*	9.60*	1.718*	0.1156	27.63*	0.0651	147
400	0.09	1030*	6.50*	1.770	0.1130	26.55*	0.0620	105
420	0.61	1015*	4.79*	1.822	0.1104	25.48	0.0599	80.0
440	2.88	1000*	3.74*	1.874	0.1078	24.47	0.0578	64.7
460	10.80	985*	3.02*	1.926	0.1052	23.45	0.0557	54.2
480	33.50	970*	2.49*	1.978	0.1026	22.44	0.0536	46.5
500	89.50	955*	2.15*	2.030	0.1000	21.43	0.0516	41.7
520	211	940*	1.90*	2.082	0.0974	20.42	0.0500	38.0
540	451	925*	1.55*	2.134	0.0948	19.48	0.0484	32.0
560	884	910	1.35	2.186	0.0922	18.54	0.0468	28.8
580	1614	895	1.17	2.238	0.0896	17.60	0.0452	25.9
600	2776	880	1.03	2.290	0.0870	16.66	0.0437	23.6
620	4535	865	0.91	2.342	0.0844	15.78	0.0421	21.6
640	7084	850	0.82	2.394	0.0818	14.90	0.0405	20.2
660	$1.07 \cdot 10^4$	835	0.73	2.446	0.0792	14.02	0.0388	18.8

A.7.14: Oligomethylphenylsiloxane  $M''D'_3M''$   
 $(\text{CH}_3)(\text{C}_6\text{H}_5)_2\text{SiO}[(\text{CH}_3)(\text{C}_6\text{H}_5)\text{SiO}]_3\text{Si}(\text{CH}_3)(\text{C}_6\text{H}_5)_2$

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
260	—	1139	8120	1.408*	0.1318	34.5	0.0822	$9.9 \cdot 10^4$
280	—	1125*	1870*	1.460*	0.1294	33.6	0.0788	$2.3 \cdot 10^4$
300	—	1111*	405*	1.512*	0.1270	32.7	0.0756	5360
320	—	1096*	109*	1.564*	0.1246	31.8	0.0727	1500
340	0.00	1082*	41.3*	1.616*	0.1222	30.9	0.0699	590
360	0.01	1067*	19.9*	1.668*	0.1198	29.9	0.0673	296
380	0.05	1053*	11.7*	1.720*	0.1174	29.0	0.0648	180
400	0.16	1038*	8.30*	1.772	0.1150	28.1	0.0625	133
420	0.49	1023*	6.15*	1.824	0.1126	27.2	0.0603	102
440	1.34	1009*	4.82*	1.876	0.1102	26.3	0.0582	82.8
460	3.34	994.2*	3.55*	1.928	0.1078	25.3	0.0562	63.1
480	7.72	979.6*	2.88*	1.980	0.1054	24.4	0.0543	53.0
500	16.71	965.0*	2.38*	2.032	0.1030	23.5	0.0525	45.3
520	34.00	950.4*	2.11*	2.100	0.1006	22.6	0.0504	41.9
540	65.80	935.8*	1.82*	2.175	0.0982	21.3	0.0482	37.7
560	121	921.2	1.58	2.255	0.858	20.7	0.0461	34.3
580	215	906.6	1.37	2.345	0.0934	19.8	0.0439	31.2
600	365	892.0	1.20	2.445	0.0910	18.9	0.0417	28.8
620	601	877.4	1.06	2.550	0.0886	18.0	0.0396	26.8
640	958	862.8	0.94	2.660	0.0862	17.1	0.0376	25.0
660	1486	848.2	0.84	2.770	0.0838	16.2	0.0357	23.6

A.7.15: Oligomethylphenylsiloxane  $M''D'_4M''$   
 $(\text{CH}_3)(\text{C}_6\text{H}_5)_2\text{SiO}[(\text{CH}_3)(\text{C}_6\text{H}_5)\text{SiO}]_4\text{Si}(\text{CH}_3)(\text{C}_6\text{H}_5)_2$

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
280	—	1129*	2700*	1.437	0.1318	34.2	0.0812	$3.3 \cdot 10^4$
300	—	1115*	610*	1.487	0.1295	33.3	0.0781	7810
320	—	1101*	165*	1.537	0.1272	32.4	0.0752	2194
340	—	1087*	57.0*	1.587	0.1249	31.6	0.0724	787
360	0.005	1073*	24.9*	1.637	0.1226	30.7	0.0698	357
380	0.021	1060*	14.7*	1.687	0.1203	29.9	0.0673	219
400	0.072	1046*	9.90*	1.737	0.1180	29.0	0.0649	152
420	0.221	1032*	7.25*	1.787	0.1157	28.1	0.0627	116
440	0.609	1018*	5.52*	1.837	0.1134	27.3	0.0606	91.0
460	1.54	1004*	4.45*	1.887	0.1111	26.4	0.0586	75.9
480	3.59	990.0*	3.77*	1.937	0.1088	25.6	0.0567	66.4
500	7.85	976.0*	3.08*	1.987	0.1065	24.7	0.0549	56.1
520	16.10	962.1*	2.64*	2.037	0.1042	23.8	0.0532	46.7
540	31.40	948.2*	2.28*	2.087	0.1019	22.9	0.0515	44.3
560	58.40	934.3	2.00	2.137	0.0996	22.1	0.0499	40.1
580	104	920.4	1.74	2.187	0.0973	21.2	0.0483	36.0
600	178	906.5	1.52	2.237	0.0950	20.4	0.0468	32.4
620	295	892.6	1.36	2.287	0.0927	19.5	0.0454	29.9
640	473	878.7	1.21	2.337	0.0904	18.7	0.0440	27.5
660	738	864.8	1.09	2.387	0.0881	17.8	0.0427	25.5
680	1120	850.8	0.97	2.437	0.0858	17.0	0.0414	23.4
700	1661	835.5	0.86	2.487	0.0835	16.1	0.0402	21.4

## A.8: Oligomethylphenylsiloxane Cyclic

A.8.1: Oligomethylphenylsiloxane  $D_2D'$   $[(CH_3)(C_6H_5)SiO]_n[(CH_3)_2SiO]_2$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
260	1.40	1051	9.91	1.540*	0.1233	26.2	0.0762	130
280	8.23	1032	4.71*	1.591*	0.1196	24.7	0.0728	64.7
300	36.90	1012	3.11*	1.641*	0.1159	23.2	0.0698	44.6
320	133	991.8	2.15	1.692*	0.1122	21.7	0.0669	32.2
340	405*	971.6	1.63	1.743*	0.1085	20.2	0.0641	25.4
360	1072*	951.4	1.23*	1.794*	0.1048	18.7	0.0614	20.0
380	2532*	931.2*	0.88*	1.845*	0.1011	17.2	0.0589	15.0
400	5435*	911.0*	0.77*	1.896	0.0974	15.7	0.0564	13.7
420	$1.08 \cdot 10^4$	890.8	0.68	1.947	0.0937	14.2	0.0540	12.6
440	$1.99 \cdot 10^4$	870.6	0.61	1.998	0.0990	12.8	0.0518	11.8
460	$3.47 \cdot 10^4$	850.4	0.54	2.049	0.0863	11.4	0.0495	10.9
480	$5.76 \cdot 10^4$	830.2	0.48	2.100	0.0826	10.1	0.0474	10.1
500	$9.14 \cdot 10^4$	810.0	0.43	2.151	0.0789	8.6	0.0453	9.5
520	$1.37 \cdot 10^5$	789.8	0.40	2.202	0.0752	7.4	0.0432	9.3
540	$2.06 \cdot 10^5$	769.6	0.38	2.254	0.0715	6.2	0.0412	9.2
560	$2.95 \cdot 10^5$	749.4	0.36	2.304	0.0678	5.2	0.0393	9.2
580	$4.12 \cdot 10^5$	729.2	0.34	2.355	0.0641	4.3	0.0373	9.1
600	$5.61 \cdot 10^5$	709.0	0.33	2.406	0.0604	3.4	0.0354	9.3
620	$7.48 \cdot 10^5$	688.8	0.32	2.541	0.0567	2.6	0.0324	9.9
640	$9.79 \cdot 10^5$	668.6	0.31	2.635	0.0530	1.8	0.0301	10.3
660	$1.26 \cdot 10^6$	648.4	0.30	2.821	0.0493	1.2	0.0270	11.1

A.8.2: Oligomethylphenylsiloxane  $D_2D''$   $(C_6H_5)_2SiO[(CH_3)_2SiO]_n$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
340	6.15	1037*	3.50	1.780	0.1108	20.5	0.0600	58.3
360	22.70	1017*	2.71*	1.831	0.1074	19.1	0.0577	47.0
380	72.20	996.1*	2.15*	1.882	0.1040	17.7	0.0555	38.8
400	202	974.5*	1.76	1.933	0.1006	16.3	0.0534	33.0
420	526*	952.9*	1.48	1.984	0.0972	14.9	0.0514	28.8
440	1320*	931.3*	1.28	2.035	0.0938	13.6	0.0495	25.9
460	2902*	909.7*	1.12	2.086	0.0904	12.4	0.0476	23.5
480	6006*	888.1*	0.99	2.133	0.0870	11.2	0.0458	21.6
500	$1.19 \cdot 10^4$ *	866.5*	0.87	2.188	0.0836	9.93	0.0441	19.8
520	$2.16 \cdot 10^4$ *	844.9*	0.79	2.239	0.0802	8.88	0.0424	18.6
540	$3.67 \cdot 10^4$ *	823.3*	0.71	2.290	0.0768	7.80	0.0407	17.4
560	$5.28 \cdot 10^4$ *	801.7*	0.64	2.341	0.0734	6.72	0.0391	16.4
580	$1.01 \cdot 10^5$ *	780.6*	0.59	2.392	0.0700	5.72	0.0375	15.2
600	$1.62 \cdot 10^5$	758.5	0.54	2.443	0.0666	4.72	0.0359	15.0
620	$2.47 \cdot 10^5$	718.2	0.49	2.495	0.0632	3.72	0.0353	13.9
640	$3.64 \cdot 10^5$	685.5	0.46	2.575	0.0598	2.76	0.0339	13.6
660	$5.26 \cdot 10^5$	647.5	0.43	2.706	0.0557	1.96	0.0318	13.5
680	$7.55 \cdot 10^5$	602.0	0.41	2.829	0.0497	1.26	0.0292	14.0
700	$1.06 \cdot 10^6$	526.0	0.39	3.246	0.0449	0.66	0.0263	14.8
710	$1.30 \cdot 10^6$	321.5	0.38	$\infty$	0.0310	0.00	0.00	$\infty$

A.8.3: Oligomethylphenylsiloxane  $D_3D''$   $(CH_3)(C_6H_5)_2SiO[(CH_3)SiO]_3$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
180	—	1118	958	1.355	0.1396	31.5	0.0922	$1.1 \cdot 10^4$
200	—	1103	218	1.405	0.1356	30.1	0.0875	2500
220	—	1087	70.8	1.456	0.1316	28.7	0.0832	851
240	—	1070	26.4	1.507	0.1276	27.3	0.0795	332
260	—	1052	12.2	1.558*	0.1236	26.9	0.0759	161
280	0.000	1033*	7.72*	1.609*	0.1196*	24.5*	0.0723	107
300	0.02	1014*	5.34*	1.660*	0.1156*	23.1*	0.0687	77.8
320	0.79	995	3.97	1.711*	0.1116*	21.7	0.0658	60.3
340	11.10	976	3.05	1.762*	0.1076*	20.3	0.0629	48.5
360	80.20	957	2.38	1.813*	0.1036*	18.9	0.0681	39.6
380	373*	938	1.92	1.864*	0.0996*	17.5	0.0572	33.6
400	1278*	919	1.54	1.915	0.0956	16.1	0.0543	28.3
420	3496*	900	1.31	1.966	0.0916	14.8	0.0519	25.3
440	8094*	881	1.12	2.017	0.0876	13.6	0.0495	22.6
460	$1.65 \cdot 10^4$ *	862	0.97	2.068	0.0836	12.4	0.0471	20.6
480	$3.03 \cdot 10^4$ *	843	0.85	2.119	0.0796	11.2	0.0447	19.0
500	$5.18 \cdot 10^4$ *	824	0.75	2.170	0.0756	10.0	0.0423	17.7
520	$8.18 \cdot 10^4$ *	805	0.69	2.221	0.0716	9.00	0.0400	17.3
540	$1.22 \cdot 10^5$ *	786	0.63	2.272	0.0676	8.03	0.0376	16.7
560	$1.76 \cdot 10^5$	767	0.58	2.323	0.0636	7.06	0.0353	16.4
580	$2.43 \cdot 10^5$	748	0.54	2.374	0.0596	6.09	0.0330	16.4
600	$3.25 \cdot 10^5$	729	0.51	2.425	0.0556	5.12	0.0315	16.2
620	$4.23 \cdot 10^5$	704	0.48	2.476	0.0516	4.20	0.0296	16.2
640	$5.37 \cdot 10^5$	676	0.46	2.568	0.0476	3.31	0.0274	16.8
660	$6.69 \cdot 10^5$	643	0.44	2.715	0.0436	2.46	0.0250	17.6
680	$8.17 \cdot 10^5$	606	0.42	2.977	0.0396	1.70	0.0220	19.1

A.8.4: Oligomethylphenylsiloxane  $D_3D'''$   $(CH_3)(C_6H_5)_2SiO[(CH_3)SiO]_3$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
280	—	1119	25.5*	1.550*	0.1226	24.2	0.0713	358
300	0.08	1092*	10.7*	1.600*	0.1194	23.0	0.0683	157
320	0.63	1074*	5.9*	1.650*	0.1162	21.8	0.0656	90.0
340	3.66	1056*	3.85*	1.700*	0.1130	20.6	0.0630	61.2
360	16.30	1038*	2.75*	1.750*	0.1098	19.4	0.0604	45.5
380	58.40	1020*	2.12*	1.800*	0.1066	18.2	0.0580	36.5
400	177	1002*	1.68*	1.850	0.1034	17.0	0.0558	30.1
420	466	984*	1.37*	1.900	0.1002	15.9	0.0536	25.6
440	1095	966	1.12*	1.950	0.0970	14.8	0.0515	21.7
460	2341	948	0.95*	2.000	0.0938	13.7	0.0495	19.2
480	4620	930	0.83*	2.050	0.0906	12.6	0.0475	17.5
500	8521	912	0.73	2.100	0.0874	11.6	0.0456	16.0
520	$1.48 \cdot 10^4$	894	0.65	2.150	0.0842	10.6	0.0438	14.8
540	$2.45 \cdot 10^4$	876	0.58	2.200	0.0810	9.6	0.0420	13.8
560	$3.88 \cdot 10^4$	858	0.53	2.250	0.0778	8.65	0.0403	13.2
580	$5.92 \cdot 10^4$	840	0.48	2.300	0.0746	7.70	0.0386	12.4
600	$8.72 \cdot 10^4$	822	0.44	2.350	0.0714	6.75	0.0370	11.9
620	$1.25 \cdot 10^5$	804	0.41	2.400	0.0682	5.95	0.0353	11.6
640	$1.74 \cdot 10^5$	786	0.38	2.450	0.0650	5.15	0.0338	11.3
660	$2.36 \cdot 10^5$	768	0.36	2.500	0.0618	4.40	0.0322	11.2
680	$3.15 \cdot 10^5$	750	0.34	2.550	0.0586	3.70	0.0306	11.1



A.8.5: Oligomethylphenylsiloxane  $D_4D'$   $(CH_3)(C_6H_5)SiO[(CH_3)_2SiO]_4$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
180	—	1113	4600	1.387	0.1383	30.5	0.0896	$5.2 \cdot 10^4$
200	—	1097	960	1.437	0.1352	29.3	0.0858	$1.1 \cdot 10^4$
220	—	1080	222	1.487	0.1321	28.1	0.0823	2700
240	—	1062	64.0	1.537	0.1290	26.9	0.0790	810
260	—	1044	24.4	1.587*	0.1259	25.7	0.0760	325
280	—	1026*	12.4*	1.637*	0.1228	24.5*	0.0731	170
300	—	1008*	7.0*	1.687*	0.1197	23.3*	0.0704	99.4
320	0.01	988.8	4.56	1.737*	0.1166	22.1	0.0678	67.3
340	0.40	971.6	3.22	1.787*	0.1135	20.9	0.0654	49.3
360	4.24	953.4	2.32	1.837*	0.1104	19.7	0.0630	36.8
380	26.60	935.2	1.78	1.887*	0.1073	18.5	0.0608	29.3
400	116	917.0	1.42	1.937	0.1042	17.3	0.0587	24.2
420	387	898.8	1.16	1.987	0.1011	16.1	0.0566	20.5
440	1054	880.6	0.95	2.037	0.0980	14.9	0.0546	17.4
460	2462	862.4	0.79	2.087	0.0949	13.7	0.0527	15.0
480	5096	844.2	0.68	2.137	0.0918	12.5	0.0509	13.4
500	9573	826.0	0.58	2.187	0.0887	11.3	0.0491	11.8
520	$1.66 \cdot 10^4$	807.8	0.51	2.237	0.0856	10.3	0.0474	10.8
540	$2.70 \cdot 10^4$	789.6	0.45	2.287	0.0825	9.3	0.0457	9.85
560	$4.17 \cdot 10^4$	771.4	0.40	2.337	0.0794	8.3	0.0440	9.08
580	$6.14 \cdot 10^4$	753.2	0.36	2.387	0.0763	7.4	0.0424	8.48
600	$8.70 \cdot 10^4$	735.0	0.33	2.437	0.0732	6.5	0.0409	8.08
620	$1.19 \cdot 10^5$	716.8	0.31	2.487	0.0701	5.7	0.0393	7.88
640	$1.59 \cdot 10^5$	698.6	0.29	2.537	0.0670	4.9	0.0378	7.67
660	$2.06 \cdot 10^5$	680.4	0.28	2.587	0.0639	4.2	0.0363	7.58

A.8.6: Oligomethylphenylsiloxane  $DD''_2$   $(CH_3)_2SiO[(C_6H_5)_2SiO]_2$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
360	0.05	1078*	13.1*	1.780	0.1125	34.8	0.0586	224
380	0.31	1064*	6.80*	1.829	0.1095	33.3	0.0563	120
400	1.53	1050*	4.91*	1.878	0.1065	31.8	0.0540	90.9
420	6.22	1035*	3.98*	1.927	0.1035	30.3	0.0521	76.5
440	21.40	1020*	3.25*	1.976	0.1005	28.8	0.0501	64.9
460	64.50	1005*	2.72*	2.025	0.0975	27.3	0.0481	56.5
480	173	990*	2.25*	2.074	0.0945	25.8	0.0462	48.7
500	419	975*	1.85*	2.123	0.0915	24.3	0.0442	41.9
520	936*	960*	1.60*	2.172	0.0885	22.8	0.0425	37.6
540	1940	945*	1.37*	2.221	0.0855	21.3	0.0409	33.5
560	3776	930*	1.19*	2.270	0.0825	19.8	0.0392	30.3
580	6953	915*	1.06*	2.319	0.0795	18.3	0.0376	28.2
600	$1.22 \cdot 10^4$	900	0.94	2.368	0.0765	16.8	0.0359	26.2
620	$2.05 \cdot 10^4$	885	0.85	2.417	0.0735	15.3	0.0344	24.7
640	$3.31 \cdot 10^4$	870	0.77	2.466	0.0705	13.8	0.0329	23.2
660	$5.17 \cdot 10^4$	865	0.71	2.515	0.0675	12.3	0.0314	22.6
680	$7.83 \cdot 10^4$	848	0.65	2.564	0.0645	10.8	0.0299	21.8
700	$1.15 \cdot 10^5$	830	0.60	2.613	0.0615	9.3	0.0284	21.8
720	$1.66 \cdot 10^5$	812	0.55	2.662	0.0585	7.8	0.0271	20.3
740	$2.33 \cdot 10^5$	790	0.51	2.711	0.0555	6.3	0.0259	19.7

A.8.7: Oligomethylphenylsiloxane  $DD'_3$   $(CH_3)_2SiO[(CH_3)(C_6H_5)SiO]_3$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
240	—	1136	2335	1.416	0.1298	27.0	0.0807	$2.2 \cdot 10^4$
260	—	1119	450	1.464*	0.1272	25.9	0.0777	5800
280	—	1102*	120*	1.512*	0.1246*	24.8	0.0748	1606
300	0.01	1084*	42.5*	1.560*	0.1220*	23.7	0.0722	589
320	0.05	1066	16.2	1.608*	0.1194*	22.6	0.0698	238
340	0.21	1048	8.68	1.656*	0.1168*	21.5	0.0675	128
360	0.81	1031	5.61	1.704*	0.1142*	20.4	0.0650	86.3
380	3.04	1013	4.08	1.725*	0.1116*	19.3	0.0631	64.7
400	13.10	995.0	3.14	1.800*	0.1090	18.2	0.0609	51.6
420	40.50	977.2	2.48	1.848	0.1064	17.1	0.0589	42.1
440	111	959.4	2.00	1.896	0.1038	16.0	0.0572	35.0
460	272	971.6	1.65	1.944	0.1012	14.9	0.0553	29.8
480	608	923.8	1.41	1.992	0.0986	13.8	0.0536	26.3
500	1230*	906.0	1.22	2.040	0.0960	12.7	0.0519	23.5
520	2480*	888.2	1.06	2.200	0.0934	11.6	0.0478	22.2
540	4870*	870.4	0.96	2.260	0.0908	10.5	0.0462	20.8
560	8950*	852.6	0.85	2.320	0.0882	9.4	0.0446	19.1
580	$1.54 \cdot 10^4$ *	834.8	0.76	2.385	0.0856	8.3	0.0434	17.5
600	$2.62 \cdot 10^4$ *	817.0	0.68	2.450	0.0830	7.2	0.0415	16.4
620	$4.25 \cdot 10^4$ *	799.2	0.62	2.515	0.0804	6.1	0.0400	15.5
640	$6.67 \cdot 10^4$ *	781.4	0.57	2.590	0.0778	5.0	0.0389	14.6

A.8.8: Oligomethylphenylsiloxane  $D_4D''$   $(C_6H_5)_2SiO[(CH_3)_2SiO]_4$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
280	—	1073	98.2	1.529	0.1239	24.8	0.0753	1305
300	—	1057*	32.3	1.578	0.1210	23.8	0.0725	450
320	—	1040*	12.0	1.627	0.1171	29.8	0.0692	173
340	0.01	1023*	5.91	1.676	0.1142	21.8	0.0666	88.7
360	0.17	1005*	3.44	1.725	0.1113	20.8	0.0642	53.6
380	1.65	987.6*	2.47	1.774	0.1084	19.8	0.0619	39.9
400	10.10	970.0*	1.87*	1.823	0.1065	18.8	0.0602	34.0
420	44.50	952.4*	1.46*	1.872	0.1036	17.8	0.0581	24.9
440	153	934.8*	1.18*	1.921	0.1007	16.8	0.0562	21.0
460	434	917.2*	0.97*	1.970	0.0978	15.8	0.0543	17.9
480	1062	899.6*	0.82*	2.019	0.0949	14.8	0.0523	15.7
500	2307*	882.0*	0.71*	2.068	0.0920	13.8	0.0504	14.1
520	4548	864.4*	0.61*	2.120	0.0891	12.8	0.0487	12.5
540	8278	846.8	0.53*	2.175	0.0862	11.8	0.0469	11.3
560	$1.41 \cdot 10^4$	829.2	0.48	2.230	0.0833	10.8	0.0451	10.6
580	$2.27 \cdot 10^4$	811.6	0.43	2.290	0.0804	9.8	0.0433	9.93
600	$3.49 \cdot 10^4$	794.0	0.39	2.350	0.0775	8.8	0.0415	9.39
620	$5.14 \cdot 10^4$	776.4	0.36	2.410	0.0746	7.8	0.0399	9.03
640	$7.31 \cdot 10^4$	758.8	0.33	2.470	0.0717	6.8	0.0383	8.63
660	$1.01 \cdot 10^5$	741.2	0.31	2.530	0.0688	5.8	0.0367	8.45
680	$1.35 \cdot 10^5$	723.6	0.29	2.590	0.0659	4.8	0.0352	8.25

A.8.9: Oligomethylphenylsiloxane  $D'_4$   $[(CH_3)(C_6H_5)SiO]_4$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	—	1144	1487	1.495	0.1294	37.0	0.0757	$2.01 \cdot 10^4$
280	—	1127*	329	1.544*	0.1266*	35.6*	0.0726	4700
300	—	1110*	96.3	1.593*	0.1238*	34.2*	0.0700	1375
320	—	1093	34.5	1.642	0.1210	32.8	0.0674	513
340	—	1076	13.8	1.691	0.1182	31.4	0.0650	212
360	—	1058	7.36*	1.740	0.1154	30.0	0.0627	117
380	—	1041	4.52*	1.789	0.1126	28.6	0.0605	74.8
400	0.05	1024	3.16*	1.838	0.1098	27.2	0.0583	54.2
420	0.61	1007	2.42*	1.887	0.1070	25.8	0.0563	42.9
440	3.7	989.6	1.93*	1.936	0.1042	24.4	0.0544	35.5
460	22.6	972.4	1.58*	1.985	0.1014	32.0	0.0525	30.1
480	97.7	955.2	1.29*	2.034	0.0986	21.6	0.0508	25.4
500	263	938.0	1.08*	2.083	0.0958	20.2	0.0490	22.0
520	710	920.8	0.91*	2.132	0.0930	18.8	0.0474	19.2
540	1470*	903.6	0.77*	1.181	0.0802	17.4	0.0458	16.8
560	2850*	886.4	0.67	2.230	0.0874	16.0	0.0442	15.2
580	5250*	869.2	0.57	2.279	0.0846	14.6	0.0427	13.3
600	9600*	852.0	0.49	2.328	0.0818	13.2	0.0413	11.9
620	$1.60 \cdot 10^{4*}$	834.8	0.43	2.377	0.0790	11.8	0.0398	10.8
640	$2.87 \cdot 10^{4*}$	817.6	0.38	2.426	0.0762	10.4	0.0384	9.89
660	$4.34 \cdot 10^4$	800.2	0.34	2.475	0.0734	9.0	0.0371	9.18

A.8.10: Oligomethylphenylsiloxane  $D_2D''_2$   $[(CH_3)_2SiO]_2[(C_6H_5)_2SiO]_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
350	—	1068*	18.5	1.707	0.1165	28.6	0.0639	290
360	—	1051*	12.8*	1.755	0.1137	27.9	0.0617	207
380	0.004	1034*	8.05*	1.803	0.1109	26.5	0.0595	135
400	0.03	1017*	5.33*	1.851	0.1081	25.1	0.0574	92.8
420	0.16	1000*	3.93*	1.899	0.1053	24.7	0.0556	70.7
440	0.70	983*	3.03*	1.947	0.1025	22.3	0.0538	56.3
460	2.62	966*	2.39*	1.995	0.0997	20.9	0.0520	46.0
480	8.56	949*	1.93*	2.043	0.0969	19.5	0.0502	38.4
500	24.90	932*	1.59*	2.091	0.0941	18.1	0.0483	32.9
520	65.30	915*	1.33*	2.139	0.0913	16.7	0.0468	28.4
540	157	898*	1.13*	2.187	0.0885	15.3	0.0453	24.9
560	350	881*	0.96*	2.235	0.0857	13.9	0.0438	21.9
580	729	864*	0.84*	2.283	0.0829	12.5	0.0423	19.9
600	1432	847	0.74	2.331	0.0801	11.1	0.0406	18.2
620	2672	830	0.66	2.379	0.0773	9.7	0.0392	16.8
640	4760	813	0.60	2.427	0.0745	8.3	0.0378	15.9
660	8134	796	0.55	2.475	0.0717	6.9	0.0364	15.1
680	$1.34 \cdot 10^4$	779	0.51	2.532	0.0689	5.6	0.0350	14.6
700	$2.13 \cdot 10^4$	762	0.47	2.571	0.0661	4.4	0.0337	13.9
720	$3.30 \cdot 10^4$	745	0.44	2.621	0.0633	3.3	0.0324	13.6
740	$4.97 \cdot 10^4$	728	0.41	2.673	0.0605	2.3	0.0311	13.2
760	$7.29 \cdot 10^4$	711	0.39	2.728	0.0577	1.4	0.0298	13.1

A.8.11: Oligomethylphenylsiloxane  $D_3''' [(C_6H_5)_2SiO]_3$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
460	22	1169*	5.10*	1.991	0.1015	22.0	0.0436	117
480	70	1145*	3.75*	2.040	0.0988	20.7	0.0422	89.0
500	188	1128*	3.01*	2.089	0.0961	19.4	0.0408	73.8
520	447	1107*	2.48*	2.138	0.0934	18.1	0.0395	62.8
540	962	1081*	2.08*	2.187	0.0907	16.8	0.0382	54.6
560	1900	1066*	1.77*	2.236	0.0880	15.5	0.0369	47.9
580	3496	1046*	1.53*	2.285	0.0853	14.2	0.0357	42.9
600	6049	1025*	1.32	2.334	0.0826	12.9	0.0345	38.2
620	9935	1005*	1.16	2.383	0.0799	11.6	0.0334	34.8
640	$1.56 \cdot 10^4$	983.8	1.01	2.432	0.0772	10.3	0.0323	31.3
660	$2.35 \cdot 10^4$	963.2	0.90	2.481	0.0745	9.0	0.0312	28.9
680	$3.43 \cdot 10^4$	942.6	0.81	2.530	0.0718	7.7	0.0301	26.9
700	$4.86 \cdot 10^4$	922.0	0.73	2.579	0.0691	6.4	0.0291	25.1
720	$6.70 \cdot 10^4$	901.4	0.66	2.628	0.0664	5.1	0.0280	23.5
740	$9.01 \cdot 10^4$	880.8	0.61	2.677	0.0637	3.8	0.0270	22.6

A.8.12: Oligomethylphenylsiloxane  $D_3D'_3 [(CH_3)_2SiO]_3[(CH_3)(C_6H_5)SiO]_3$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
260	—	1106	225	1.520	0.1291	22.5	0.0768	2930
280	—	1090*	78.5*	1.546*	0.1264	21.6	0.0742	1060
300	—	1074*	36.6*	1.612*	0.1237	20.7	0.0715	512
320	0.000	1057	18.8	1.660*	0.1210	19.8	0.0690	273
340	0.004	1040	11.1	1.708*	0.1183	18.9	0.0666	167
360	0.018	1023	7.25	1.756*	0.1156	18.0	0.0644	113
380	0.078	1006	6.38	1.804*	0.1129	17.1	0.0622	102
400	0.288	989	4.04	1.852	0.1102	16.2	0.0602	67.1
420	0.941	972	3.10	1.900	0.1075	15.3	0.0582	53.3
440	2.77	955	2.42	1.948	0.1048	14.4	0.0563	43.0
460	7.41	938	1.92	1.996	0.1021	13.5	0.0545	35.2
480	18.30	921	1.57	2.044	0.0994	12.6	0.0528	29.7
500	41.90	904	1.33	2.092	0.0967	11.7	0.0511	26.0
520	90.20	887	1.13	2.140	0.0940	10.8	0.0495	22.8
540	183	870	0.97	2.188	0.0913	9.9	0.0480	20.2
560	354	853	0.84	2.236	0.0886	9.0	0.0465	18.1
580	654	836	0.75	2.284	0.0859	8.1	0.0450	16.7
600	1160	819	0.66	2.332	0.0832	7.2	0.0436	15.2
620	1982	802	0.60	2.380	0.0805	6.3	0.0422	14.2
640	3275	785	0.54	2.428	0.0778	5.4	0.0408	13.2
660	5250	768	0.49	2.476	0.0751	4.5	0.0395	12.4
680	8184	751	0.45	2.524	0.0724	3.6	0.0382	11.8

A.8.13: Oligomethylphenylsiloxane  $DD'_3$   $[(CH_3)_2SiO]_3[(CH_3)(C_6H_5)SiO]_3$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
390	—	1096*	23.8*	1.770	0.1140	27.6	0.0588	405
400	0.01	1080*	16.1*	1.817	0.1114	27.0	0.0568	283
420	0.1	1074*	9.24*	1.864	0.1088	25.9	0.0544	170
440	0.57	1057*	6.51*	1.911	0.1062	24.8	0.0531	123
460	2.63	1040*	4.97*	1.958	0.1036	23.7	0.0513	96.9
480	9.67	1023*	3.96*	2.005	0.1010	22.6	0.0495	80.0
500	29.90	1006*	3.21*	2.052	0.0984	21.5	0.0477	67.3
520	80.40	989.6*	2.73*	2.099	0.0958	20.4	0.0462	59.1
540	192	972.8*	2.24*	2.146	0.0932	19.3	0.0448	50.0
560	417	956.0*	1.94*	2.193	0.0906	18.2	0.0434	44.8
580	835	939.2	1.68*	2.240	0.0880	17.1	0.0419	40.1
600	1560	922.4	1.48	2.287	0.0854	16.0	0.0405	36.6
620	2740	905.6	1.30	2.334	0.0828	14.9	0.0392	33.2
640	4580	888.8	1.17	2.381	0.0802	13.8	0.0380	30.8
660	7320	782.0	1.07	2.428	0.0776	12.7	0.0367	29.2
680	$1.12 \cdot 10^4$	855.2	0.96	2.475	0.0750	11.6	0.0354	27.1
700	$1.67 \cdot 10^4$	838.4	0.88	2.522	0.0724	10.5	0.0342	25.7
720	$2.40 \cdot 10^4$	821.6	0.80	2.570	0.0698	9.4	0.0331	24.2

A.8.14: Oligomethylphenylsiloxane  $D_2D'_4$   $[(CH_3)_2SiO]_2[(CH_3)(C_6H_5)SiO]_4$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
260	1.1	1115	2100*	1.483	0.1300	26.0	0.0786	$2.7 \cdot 10^4$
280	5.8	1099*	190*	1.530	0.1274	25.2	0.0758	2508
300	21.2	1085*	45.1*	1.577	0.1248	24.4	0.0729	618
320	61.9	1068	24.5*	1.624	0.1222	23.6	0.0707	347
340	167	1051	14.4*	1.671	0.1196	22.8	0.0684	210
360	393	1035	9.68	1.718	0.1170	22.0	0.0662	146
380	835	1018	6.48	1.765	0.1144	21.2	0.0639	101
400	1713	1001	4.58	1.812	0.1118	20.4	0.0616	74.3
420	2940	984.2	3.39	1.859	0.1092	19.6	0.0598	57.4
440	4750	967.4	2.65	1.906	0.1066	18.8	0.0580	45.7
460	6300	950.6	2.17	1.953	0.1040	18.0	0.0562	38.6
480	$1.08 \cdot 10^4$	933.8	1.78	2.000	0.1014	17.2	0.0544	32.7
500	$1.54 \cdot 10^4$	917.0	1.50	2.047	0.0988	16.4	0.0526	28.5
520	$2.12 \cdot 10^4$	900.2	1.36	2.094	0.0962	15.6	0.0511	26.6
540	$2.79 \cdot 10^4$	883.4	1.08	2.141	0.0936	14.8	0.0496	21.8
560	$3.63 \cdot 10^4$	866.6	0.93	2.183	0.0910	14.0	0.0482	19.3
580	$4.64 \cdot 10^4$	849.8	0.81	2.235	0.0884	13.2	0.0466	17.4
600	$5.76 \cdot 10^4$	833.0	0.71	2.282	0.0858	12.4	0.0451	15.7
620	$7.12 \cdot 10^4$	816.2	0.62	2.329	0.0832	11.6	0.0438	14.2
640	$8.55 \cdot 10^4$	799.4	0.55	2.376	0.0806	10.8	0.0424	12.9
660	$1.01 \cdot 10^5$ *	782.6	0.49	2.423	0.0780	10.0	0.0411	11.9
680	$1.19 \cdot 10^5$ *	765.8	0.44	2.470	0.0754	9.2	0.0399	11.0

A.8.15: Oligomethylphenylsiloxane  $D_4''$   $[(C_6H_5)_2SiO]_4$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$\alpha \cdot 10^6$ , m <sup>2</sup> /s	Pr
460	—	1050*	12.8	1.946	0.1067	24.1	0.0522	248
480	—	1035*	9.50*	1.992	0.1042	23.0	0.0505	188
500	0.01	1019*	7.69*	2.038	0.1017	21.9	0.0490	157
520	0.06	1003*	6.51*	2.084	0.0992	20.8	0.0476	137
540	0.26	986.2*	5.32*	2.130	0.0967	19.7	0.0462	115
560	0.95	969.8*	4.48*	2.176	0.0942	18.6	0.0448	100.8
580	3.09	953.4*	3.89*	2.222	0.0917	17.5	0.0434	88.7
600	8.92*	937.0	3.34	2.268	0.0892	16.4	0.0420	79.6
620	23.3*	920.6	2.96	2.314	0.0867	15.3	0.0708	72.6
640	55.7	904.2	2.64	2.360	0.0842	14.2	0.0396	66.8
660	124	887.8	2.35	2.406	0.0817	13.1	0.0383	61.3
680	256	871.4	2.12	2.452	0.0792	12.0	0.0371	57.1
700	502	855.0	1.94	2.498	0.0767	10.9	0.0359	54.0
720	933	838.6	1.78	2.544	0.0742	9.8	0.0348	51.2
740	1656	822.2	1.64	2.590	0.0717	8.7	0.0337	48.7

## A.9: Bis(phenocyclosiloxy)polydimethylsiloxanes

A.9.1: Bis(phenocyclosiloxy)polydimethylsiloxane  $M_1$   $\text{Si}_8\text{O}_9(\text{CH}_3)_{12}(\text{C}_6\text{H}_4\text{Cl})_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	0.24	1172	165	1.155	0.1306	27.2	0.0965	1710
280	1.12	1154*	79.5*	1.200*	0.1278*	25.7*	0.0923	681
300	4.12	1136*	41.7*	1.245*	0.1248*	24.2*	0.0882	473
320	13.80	1117*	25.0	1.290*	0.1221*	22.7*	0.0847	295
340	36.50	1099*	17.2	1.335*	0.1194*	21.2*	0.0814	211
360	85.50	1080*	12.9	1.380*	0.1169*	19.8*	0.0784	164
380	193	1062*	10.2	1.425*	0.1145*	18.4*	0.0757	135
400	389	1043*	8.12	1.470*	0.1121*	17.2*	0.0731	111
420	745	1024*	6.54	1.515	0.1100	16.0*	0.0709	92.2
440	1360	1006*	5.35	1.560	0.1080	14.9*	0.0688	77.7
460	2340	987.2	4.42	1.605	0.1060	13.8	0.0669	66.1
480	3780	968.6	3.64	1.650	0.1040	12.7	0.0651	55.9
500	6050	950.0	3.11	1.695	0.1022	11.6	0.0635	49.0
520	9120	931.4	2.69	1.740	0.1004	10.6	0.0620	43.4
540	$1.34 \cdot 10^4$	912.8	2.39	1.785	0.0988	9.63	0.0606	39.4
560	$1.91 \cdot 10^4$	894.2	2.18	1.830	0.0972	8.70	0.0594	36.7
580	$2.68 \cdot 10^4$	875.6	1.96	1.875	0.0958	7.82	0.0584	33.6
600	$3.67 \cdot 10^4$	857.0	1.77	1.920	0.0945	7.02	0.0574	30.8
620	$4.90 \cdot 10^4$	838.4	1.64	1.965	0.0932	6.28	0.0566	29.0
640	$6.46 \cdot 10^4$	819.8	1.51	2.010	0.0922	5.54	0.0560	27.0
660	$8.40 \cdot 10^4$	801.2	1.38	2.055	0.0912	4.86	0.0554	24.9

A.9.2: Bis(phenocyclosiloxy)polydimethylsiloxane  $M_2$   $\text{Si}_{11}\text{O}_{12}(\text{CH}_3)_{20}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	21.4	1047	198*	1.169	0.1315	28.0	0.1075	1843
280	60.3	1027	18.2	1.213	0.1286	26.4	0.1032	176
300	148	1007*	8.86	1.258	0.1257	24.8	0.0992	89.3
320	346	986.4*	5.35	1.303	0.1228	23.3	0.0956	56.0
340	672	965.8*	3.74	1.347	0.1199	21.8	0.0922	40.6
360	1200	945.2*	2.76	1.392	0.1170	20.4	0.0889	31.0
380	2100	924.6*	2.12	1.436	0.1142	19.0	0.0860	24.7
400	3440	904.0*	1.62	1.481	0.1117	17.6	0.0834	19.4
420	5360	883.4*	1.31	1.526	0.1093	15.2	0.0811	16.2
440	8050	862.8	1.06	1.570	0.1071	13.9	0.0791	13.4
460	$1.16 \cdot 10^4$	842.2	0.89	1.614	0.1050	12.8	0.0772	11.5
480	$1.65 \cdot 10^4$	821.6	0.76	1.659	0.1030	11.7	0.0755	10.1
500	$2.29 \cdot 10^4$	801.0	0.65	1.704	0.1013	10.7	0.0742	8.8
520	$3.05 \cdot 10^4$	780.4	0.56	1.749	0.0997	9.7	0.0731	7.7
540	$3.94 \cdot 10^4$	759.8	0.50	1.793	0.0981	8.7	0.0720	6.9
560	$5.05 \cdot 10^4$	739.2	0.45	1.838	0.0965	1.8	0.0710	6.3
580	$6.35 \cdot 10^4$	718.6	0.41	1.882	0.0951	7.0	0.0703	5.8
600	$7.91 \cdot 10^4$	698.0	0.37	1.927	0.0937	6.6	0.0697	5.3
620	$9.66 \cdot 10^4$	677.4	0.34	1.972	0.0926	5.6	0.0693	4.9
640	$1.16 \cdot 10^5$	656.8	0.31	2.016	0.0915	4.9	0.0691	4.5
660	$1.40 \cdot 10^5$	636.2	0.29	2.061	0.0904	4.3	0.0690	4.2

A.9.3: Bis(phenocyclosiloxy)polydimethylsiloxane  $M_3$   $\text{Si}_{10}\text{O}_{11}(\text{CH}_3)_{16}(\text{C}_6\text{H}_4\text{Cl})_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	0.46	1143	75.3	1.208	0.1333	26.7	0.0965	780
280	1.89	1125*	49.9*	1.249*	0.1304*	25.1*	0.0928	538
300	6.38	1107*	34.4*	1.290*	0.1275*	23.6*	0.0893	385
320	18.8	1098*	23.6	1.331*	0.1248*	22.1*	0.0854	276
340	46.5	1079*	17.1	1.372*	0.1222*	20.7*	0.0825	207
360	109	1061*	12.7	1.413*	0.1196*	19.4*	0.0798	159
380	225	1042*	9.50	1.454*	0.1171*	18.2*	0.0773	123
400	447	1024*	7.47	1.495*	0.1148*	17.0*	0.0750	99.6
420	829	1006*	5.86	1.536	0.1125*	15.8*	0.0728	80.5
440	1430	987.2*	4.68	1.577	0.1105*	14.7	0.0710	65.9
460	2370	968.8	3.90	1.618	0.1085	13.7	0.0692	56.3
480	3798	950.4	3.28	1.659	0.1066	12.6	0.0676	48.5
500	5920	923.0	2.81	1.700	0.1048	11.5	0.0668	43.0
520	8900	904.6	2.48	1.741	0.1031	10.5	0.0655	37.9
540	$1.24 \cdot 10^4$	886.2	2.14	1.782	0.1015	9.6	0.0643	33.3
560	$1.76 \cdot 10^4$	867.8	1.94	1.823	0.0999	8.7	0.0631	30.7
580	$2.41 \cdot 10^4$	849.4	1.74	1.864	0.0984	7.8	0.0621	28.0
600	$3.20 \cdot 10^4$	831.0	1.57	1.905	0.0969	7.0	0.0612	25.6
620	$4.30 \cdot 10^4$	812.6	1.44	1.946	0.0957	6.2	0.0605	23.8
640	$5.55 \cdot 10^4$	794.2	1.32	1.987	0.0945	5.5	0.0599	22.0
660	$6.96 \cdot 10^4$	775.8	1.21	2.028	0.0933	4.8	0.0593	20.4
680	$8.71 \cdot 10^4$	757.4	1.11	2.069	0.0922	4.3	0.0588	18.9

A.9.4: Bis(phenocyclosiloxy)polydimethylsiloxane  $M_4$   $\text{Si}_{11}\text{O}_{12}(\text{CH}_3)_{18}(\text{C}_6\text{H}_5)_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	2.13	1089	350*	1.210	0.1372	27.3	0.1041	3360
280	7.36	1070*	72.7*	1.252*	0.1346*	25.8*	0.1005	724
300	21.5	1051*	31.4*	1.294*	0.1320*	24.3*	0.0971	324
320	51.5	1031*	17.8*	1.336*	0.1294*	23.0*	0.0939	189
340	121	1012*	11.6*	1.378*	0.1269*	21.6*	0.0910	127
360	264	992.2*	8.72*	1.420*	0.1242*	20.3*	0.0882	98.9
380	510	972.6*	6.58	1.462*	0.1218*	19.0*	0.0857	76.8
400	930	953.0*	5.20	1.504*	0.1194*	17.7*	0.0833	62.4
420	1580	933.4*	4.04	1.546	0.1172*	16.5*	0.0812	49.7
440	2560	913.8*	3.27	1.588	0.1152	15.3*	0.0794	41.2
460	4010	894.2	2.67	1.630	0.1133	14.1	0.0777	34.3
480	6040	874.6	2.23	1.672	0.1114	13.0	0.0762	29.3
500	8550	855.0	1.90	1.714	0.1095	12.1	0.0747	25.4
520	$1.22 \cdot 10^4$	835.4	1.65	1.756	0.1077	11.2	0.0734	22.5
540	$1.71 \cdot 10^4$	815.8	1.44	1.798	0.1060	10.3	0.0723	19.9
560	$2.29 \cdot 10^4$	796.2	1.26	1.840	0.1044	9.40	0.0713	17.7
580	$3.01 \cdot 10^4$	776.6	1.12	1.882	0.1029	8.50	0.0704	15.9
600	$3.95 \cdot 10^4$	757.0	1.01	1.924	0.1014	7.60	0.0696	14.5
620	$5.08 \cdot 10^4$	737.4	0.93	1.966	0.1000	6.70	0.0690	13.5
640	$6.41 \cdot 10^4$	717.8	0.86	2.008	0.0988	5.90	0.0685	12.5
660	$7.87 \cdot 10^4$	698.2	0.80	2.050	0.0976	5.30	0.0682	11.7
680	$9.56 \cdot 10^4$	660.4	0.75	2.092	0.0964	4.80	0.0680	10.7



A.9.5: Bis(phenocyclosiloxy)polydimethylsiloxane  $M_5$   $\text{Si}_{11}\text{O}_{12}(\text{CH}_3)_{18}(\text{C}_6\text{H}_4\text{Cl})_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	0.62	1137*	550	1.222	0.1366	27.7*	0.0983	5600
280	2.40	1118*	102	1.261*	0.1338*	26.0*	0.0949	1075
300	7.79	1099*	48.1	1.300*	0.1310*	24.3*	0.0917	525
320	20.90	1080*	27.7	1.339*	0.1282*	22.7*	0.0887	312
340	50.00	1061*	17.7	1.378*	0.1254*	21.1*	0.0858	206
360	121	1041*	11.8	1.417*	0.1227*	19.6*	0.0832	142
380	248	1022*	8.75	1.456*	0.1202*	18.1*	0.0808	108
400	479	1003*	6.38	1.495*	0.1177*	16.7*	0.0785	81.3
420	858	983.8*	4.95	1.534	0.1153*	15.5*	0.0764	64.8
440	1460	964.6*	3.97	1.573	0.1133*	14.4*	0.0747	53.2
460	2360	945.4	3.29	1.612	0.1114	13.4	0.0731	45.0
480	3728	926.2	2.75	1.651	0.1096	12.4	0.0717	38.4
500	5710	907.0	2.33	1.690	0.1078	11.4	0.0703	33.1
520	8400	887.8	2.03	2.729	0.1061	10.5	0.0691	29.4
540	$1.17 \cdot 10^4$	868.6	1.78	1.768	0.1044	9.65	0.0680	26.2
560	$1.62 \cdot 10^4$	849.4	1.58	1.807	0.1028	8.80	0.0670	23.4
580	$2.18 \cdot 10^4$	830.2	1.41	1.846	0.1013	7.95	0.0661	21.3
600	$2.92 \cdot 10^4$	811.0	1.25	1.885	0.0999	7.10	0.0653	19.1
620	$3.78 \cdot 10^4$	791.8	1.15	1.924	0.0985	6.30	0.0647	17.8
640	$4.86 \cdot 10^4$	772.6	1.06	1.963	0.0972	5.60	0.0641	16.5
660	$6.16 \cdot 10^4$	753.4	0.98	2.002	0.0960	5.00	0.0636	15.4
680	$7.68 \cdot 10^4$	734.2	0.92	2.041	0.0949	4.50	0.0633	14.5

A.9.6: Bis(phenocyclosiloxy)polydimethylsiloxane  $M_6$   $\text{Si}_{14}\text{O}_{15}(\text{CH}_3)_{26}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	5.86	1031	105*	1.250	0.1387	26.8	0.1076	976
280	17.90	1012*	26.2*	1.292	0.1360	25.6	0.1040	252
300	47.30	993.0*	15.1*	1.334	0.1333	24.2	0.1006	150
320	112	973.8*	9.55*	1.376	0.1306	22.8	0.0975	98.0
340	229	954.6*	6.25*	1.418	0.1279	21.4	0.0945	66.1
360	454	935.4*	4.33*	1.460	0.1252	20.1	0.0917	47.2
380	828	916.2*	3.16	1.502	0.1225	18.8	0.0890	35.5
400	1410	897.0*	2.38	1.544	0.1198	17.6	0.0865	27.5
420	2283	877.8*	1.88	1.586	0.1173	16.4	0.0843	22.3
440	3550	858.6	1.50	1.628	0.1152	15.3	0.0824	18.2
460	5290	839.4	1.22	1.670	0.1132	14.3	0.0808	15.1
480	7668	820.2	1.01	1.712	0.1114	13.3	0.0793	12.7
500	$1.06 \cdot 10^4$	801.0	0.85	1.754	0.1097	12.3	0.0781	10.9
520	$1.47 \cdot 10^4$	781.8	0.74	1.796	0.1080	11.4	0.0769	9.62
540	$1.97 \cdot 10^4$	762.6	0.64	1.838	0.1063	10.5	0.0758	8.44
560	$2.61 \cdot 10^4$	743.4	0.57	1.880	0.1046	9.6	0.0748	7.62
580	$3.33 \cdot 10^4$	724.2	0.50	1.922	0.1031	8.9	0.0741	6.75
600	$4.18 \cdot 10^4$	705.0	0.45	1.964	0.1017	8.2	0.0734	6.13
620	$5.27 \cdot 10^4$	685.8	0.41	2.006	0.1003	7.6	0.0729	5.62
640	$6.48 \cdot 10^4$	666.6	0.38	2.048	0.0990	7.0	0.0725	5.24
660	$7.80 \cdot 10^4$	647.4	0.35	2.090	0.0978	6.5	0.0723	4.84
680	$9.29 \cdot 10^4$	628.2	0.32	2.132	0.0966	6.0	0.0721	4.44

A.9.7: Bis(phenocyclosiloxy)polydimethylsiloxane  $M_7$   $\text{Si}_{12}\text{O}_{13}(\text{CH}_3)_{20}(\text{C}_6\text{H}_4\text{Cl})_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	3.29	1122	143	1.235	0.1389	26.7*	0.1002	1427
280	10.60	1104*	55.5*	1.280*	0.1362*	25.0*	0.0964	576
300	28.90	1086*	26.6*	1.325*	0.1335*	23.4*	0.0928	287
320	67.70	1068*	15.0	1.370*	0.1308*	21.8*	0.0894	168
340	144	1049*	9.67	1.415*	0.1282*	20.4*	0.0864	112
360	305	1031*	6.75	1.460*	0.1250*	19.0*	0.0836	80.8
380	573	1012*	4.84	1.505*	0.1234*	17.7*	0.0810	59.7
400	1010	994.0*	3.58	1.550*	0.1210*	16.4*	0.0785	45.6
420	1637	975.6*	2.77	1.595	0.1187*	15.3*	0.0763	36.3
440	2595	957.2*	2.23	1.640	0.1165*	14.2*	0.0742	30.0
460	3955	938.8	1.85	1.685	0.1144	13.2	0.0723	25.6
480	5773	920.4	1.52	1.730	0.1124	12.3	0.0706	21.5
500	8080	902.0	1.28	1.775	0.1105	11.4	0.0690	18.5
520	$1.22 \cdot 10^4$	883.6	1.10	1.820	0.1088	10.5	0.0677	16.3
540	$1.54 \cdot 10^4$	865.2	0.96	1.865	0.1072	9.7	0.0664	14.5
560	$2.03 \cdot 10^4$	846.8	0.84	1.910	0.1056	8.9	0.0653	12.9
580	$2.66 \cdot 10^4$	828.4	0.75	1.955	0.1040	8.1	0.0642	11.7
600	$3.37 \cdot 10^4$	810.0	0.67	2.000	0.1026	7.3	0.0633	10.6
620	$4.29 \cdot 10^4$	791.6	0.61	2.045	0.1012	6.6	0.0625	9.8
640	$5.31 \cdot 10^4$	773.2	0.56	2.090	0.0999	6.0	0.0618	9.1
660	$6.46 \cdot 10^4$	754.8	0.51	2.135	0.0987	5.4	0.0612	8.3
680	$7.74 \cdot 10^4$	736.4	0.47	2.180	0.0976	4.9	0.0608	7.7

A.9.8: Bis(phenocyclosiloxy)polydimethylsiloxane  $M_8$   $\text{Si}_{13}\text{O}_{10}(\text{CH}_3)_{22}(\text{C}_6\text{H}_4\text{Cl})_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	1.93	1113	182	1.249	0.1408	25.5*	0.1013	1797
280	6.54	1096*	72.8*	1.292*	0.1382*	24.0*	0.0976	746
300	18.80	1078*	35.7*	1.335*	0.1356*	22.5*	0.0942	379
320	44.40	1061*	20.1	1.378*	0.1330*	21.1*	0.0910	221
340	102	1044*	12.9	1.421*	0.1305*	19.7*	0.0880	147
360	220	1026*	9.25	1.464*	0.1280*	18.3*	0.0852	109
380	397	1009*	6.56	1.507*	0.1255*	16.9*	0.0825	79.5
400	730	991.0*	4.88	1.550*	0.1230*	15.6*	0.0801	60.9
420	1280	973.5*	3.64	1.593	0.1207*	14.4*	0.0778	46.8
440	2040	956.0*	2.97	1.636	0.1184*	13.3*	0.0757	39.2
460	3200	938.5	2.41	1.679	0.1162	12.3	0.0737	32.7
480	4790	921.0	1.97	1.722	0.1142	11.4	0.0720	27.4
500	6760	903.5	1.68	1.765	0.1122	10.5	0.0704	23.9
520	9770	886.0	1.43	1.808	0.1102	9.65	0.0688	20.8
540	$1.34 \cdot 10^4$	868.5	1.25	1.851	0.1084	8.85	0.0674	18.5
560	$1.79 \cdot 10^4$	851.0	1.11	1.894	0.1068	8.05	0.0663	16.8
580	$2.35 \cdot 10^4$	833.5	0.98	1.937	0.1054	7.35	0.0653	15.0
600	$3.04 \cdot 10^4$	816.0	0.88	1.980	0.1040	6.70	0.0644	13.7
620	$3.78 \cdot 10^4$	798.5	0.80	2.023	0.1026	6.10	0.0635	12.6
640	$4.69 \cdot 10^4$	781.0	0.72	2.066	0.1013	5.55	0.0628	11.5
660	$5.81 \cdot 10^4$	763.5	0.66	2.109	0.1000	5.00	0.0621	10.6

A.9.9: Bis(phenocyclosiloxy)polydimethylsiloxane  $M_9$   $\text{Si}_{14}\text{O}_{15}(\text{CH}_3)_{24}(\text{C}_6\text{H}_5)_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	0.73	1070	250*	1.363	0.1426	26.8	0.0978	2556
280	2.76	1052*	59.7*	1.403	0.1400	25.5	0.0948	630
300	8.71	1034*	27.3*	1.444	0.1374	24.2	0.0920	297
320	22.50	1016*	14.4*	1.485	0.1348	22.9	0.0894	161
340	53.30	997.2*	9.45*	1.525	0.1322	21.7	0.0869	109
360	127	978.8*	6.72*	1.566	0.1296	20.5	0.0846	79.5
380	242	960.4*	4.95	1.606	0.1270	19.3	0.0823	60.1
400	474	942.0*	3.68	1.647	0.1245	18.1	0.0802	45.9
420	862	923.6*	2.87	1.688	0.1222	16.9	0.0784	36.6
440	1480	905.2*	2.28	1.728	0.1201	15.8	0.0768	29.7
460	2370	886.8	1.87	1.769	0.1180	14.8	0.0752	24.9
480	3620	868.4	1.56	1.809	0.1160	13.8	0.0738	21.1
500	5500	850.0	1.29	1.850	0.1141	12.8	0.0726	17.8
520	7900	831.6	1.12	1.891	0.1123	11.8	0.0714	15.7
540	$1.11 \cdot 10^4$	813.2	0.97	1.931	0.1107	10.8	0.0705	13.8
560	$1.51 \cdot 10^4$	794.8	0.84	1.972	0.1091	9.9	0.0696	12.1
580	$2.05 \cdot 10^4$	776.4	0.74	2.012	0.1075	9.0	0.0688	10.8
600	$2.70 \cdot 10^4$	758.0	0.66	2.053	0.1059	8.2	0.0681	9.7
620	$3.56 \cdot 10^4$	739.6	0.60	2.094	0.1044	7.4	0.0674	8.9
640	$4.57 \cdot 10^4$	721.2	0.56	2.134	0.1030	6.6	0.0669	8.4
660	$5.68 \cdot 10^4$	702.8	0.52	2.175	0.1016	6.0	0.0665	7.8
680	$6.96 \cdot 10^4$	684.4	0.48	2.215	0.1002	5.5	0.0661	7.3

A.9.10: Bis(phenocyclosiloxy)polydimethylsiloxane  $M_{10}$   $\text{Si}_{14}\text{O}_{15}(\text{CH}_3)_{24}(\text{C}_6\text{H}_4\text{Cl})_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	2.17	1101	400*	1.475	0.1450	26.3	0.0893	4480
280	7.10	1084*	67.7*	1.515*	0.1425	24.8*	0.0868	780
300	19.90	1067*	31.3*	1.555*	0.1400	23.3*	0.0844	371
320	49.50	1049*	16.8*	1.595	0.1375	21.8*	0.0822	204
340	107	1031*	9.77*	1.635	0.1350	20.3*	0.0801	122
360	219	1014*	7.01*	1.675	0.1325	19.0*	0.0780	89.9
380	401	995.8*	5.22	1.715	0.1300	17.7*	0.0761	68.6
400	690	978.0*	4.06	1.755	0.1275	16.4*	0.0743	54.7
420	1215	960.2*	3.13	1.795	0.1250	15.2*	0.0725	43.2
440	1920	942.4*	2.46	1.835	0.1225	14.2	0.0708	34.7
460	2840	924.6	1.96	1.875	0.1200	13.3	0.0693	28.3
480	4390	906.8	1.63	1.915	0.1180	12.4	0.0680	24.0
500	6360	889.0	1.33	1.955	0.1159	11.6	0.0667	19.9
520	8880	871.2	1.14	1.995	0.1139	10.8	0.0655	17.4
540	$1.19 \cdot 10^4$	853.4	0.97	2.035	0.1120	10.0	0.0645	15.0
560	$1.57 \cdot 10^4$	835.6	0.85	2.075	0.1102	9.2	0.0636	13.4
580	$2.05 \cdot 10^4$	817.8	0.76	2.115	0.1086	8.4	0.0628	12.1
600	$2.66 \cdot 10^4$	800.0	0.68	2.155	0.1070	7.6	0.0621	11.0
620	$3.33 \cdot 10^4$	782.2	0.62	2.195	0.1057	6.9	0.0616	10.1
640	$4.16 \cdot 10^4$	764.4	0.58	2.235	0.1043	6.3	0.0611	9.5
660	$5.12 \cdot 10^4$	746.6	0.54	2.275	0.1030	5.7	0.0606	8.9
680	$6.20 \cdot 10^4$	728.8	0.50	2.315	0.1017	5.1	0.0603	8.3

## A.10: Oligomethylchlorosiloxanes

A.10.1: Oligomethylchlorosiloxane linear  $(\text{CH}_3)_5(\text{CH}_2\text{Cl})_2\text{Si}_2\text{O}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.60	999.0	14.0	1.178	0.1410	23.7	0.1198	117
220	3.95	980	6.55	1.230	0.1355	22.3	0.1131	57.9
240	24.20	961	3.42	1.282	0.1300	20.9	0.1066	32.1
260	114	942	2.23	1.334	0.1245	19.5	0.0999	22.3
280	415	923*	1.65*	1.386	0.1190	18.1	0.0935	17.6
300	1140	904*	1.23*	1.438	0.1135	16.7	0.0873	14.1
320	3035	885	0.95	1.490	0.1080	15.3	0.0819	11.6
340	7005	866	.074	1.542	0.1025	13.9	0.0767	9.65
360	$1.47 \cdot 10^4$	847	0.59	1.594	0.0970	12.5	0.0718	8.22
380	$2.86 \cdot 10^4$	828	0.50	1.646	0.0915	11.1	0.0672	7.44
400	$5.45 \cdot 10^4$	809	0.42	1.678	0.0860	9.70	0.0626	6.71
420	$9.38 \cdot 10^4$ *	790	0.36	1.750	0.0805	8.30	0.0582	6.18
440	$1.47 \cdot 10^5$ *	771	0.32	1.802	0.0750	6.90	0.0540	5.93
460	$2.35 \cdot 10^5$	752	0.29	1.854	0.0695	5.50	0.0498	5.82
480	$3.53 \cdot 10^5$	732	0.27	1.906	0.0640	4.15	0.0459	5.89
500	$5.07 \cdot 10^5$	711	0.25	1.958	0.0585	2.95	0.0420	5.95
520	$7.15 \cdot 10^5$	685	0.24	2.020	0.0530	1.91	0.0383	6.27
540	$9.95 \cdot 10^5$	656	0.23	2.116	0.0475	1.10	0.0342	6.72
560	$1.34 \cdot 10^6$	624	0.22	2.274	0.0418	0.52	0.0295	7.47
580	$1.79 \cdot 10^6$	582	0.217	2.578	0.0344	0.18	0.0229	9.16
590	$2.05 \cdot 10^6$	550	0.215	2.830	0.0285	0.08	0.0183	11.7
602	$2.37 \cdot 10^6$	309.5	0.211	$\infty$	0.0135	0.00	0.0000	$\infty$

A.10.2: Oligomethylchlorosiloxane linear  $(\text{CH}_3)_4(\text{CH}_2\text{Cl})\text{ClSi}_2\text{O}$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	0.68	1010	12.4	1.449	0.1390	23.7	0.0950	131
220	6.82	988.7	5.80	1.501	0.1340	22.4	0.0905	64.1
240	33.30	967.4	3.13	1.553	0.1290	21.1	0.0861	36.4
260	112	946.1	2.02	1.605	0.1240	19.8	0.0817	24.7
280	366	924.8*	1.42*	1.657	0.1190	18.5	0.0778	18.3
300	1007	903.5*	1.05*	1.709	0.1140	17.2	0.0740	14.2
320	2730	882.2	0.80	1.761	0.1090	15.9	0.0702	11.4
340	6160	860.9	0.62	1.813	0.1040	14.6	0.0670	9.25
360	$1.27 \cdot 10^4$	839.6	0.50	1.865	0.0990	13.3	0.0634	7.89
380	$2.42 \cdot 10^4$	818.3	0.41	1.917	0.0940	12.0	0.0599	6.84
400	$4.45 \cdot 10^4$	797.0	0.35	1.969	0.0890	10.7	0.0567	6.17
420	$7.47 \cdot 10^4$ *	775.7	0.30	2.021	0.0840	9.4	0.0536	5.60
440	$1.19 \cdot 10^5$ *	754.4	0.27	2.073	0.0790	8.1	0.0505	5.34
460	$1.82 \cdot 10^5$	733.1	0.24	2.125	0.0740	6.8	0.0475	5.05
480	$2.75 \cdot 10^5$	711.8	0.22	2.177	0.0690	5.5	0.0445	4.49
500	$3.97 \cdot 10^5$	690.5	0.20	2.229	0.0640	4.2	0.0416	4.81
520	$5.55 \cdot 10^5$	661.2	0.19	2.288	0.0590	3.2	0.0390	4.87
540	$7.60 \cdot 10^5$	637.0	0.18	2.368	0.0540	2.2	0.0358	5.03
560	$1.02 \cdot 10^6$	606.1	0.17	2.485	0.0490	1.4	0.0325	5.23
580	$1.32 \cdot 10^6$	571.3	0.17	2.700	0.0436	0.7	0.0283	5.84
600	$1.71 \cdot 10^6$	521.1	0.16	3.079	0.0357	0.3	0.0223	7.19
620	$2.20 \cdot 10^6$	397.7	0.15	4.541	0.0220	0.1	0.0122	12.7

A.10.3: Oligomethyldichlorosiloxane linear  $(\text{CH}_3)_4(\text{CH}_2\text{Cl})_2\text{Si}_2\text{O}$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	—	1131	108	1.295	0.1427	32.0	0.0974	1108
220	—	1111	23.7	1.344	0.1372	30.3	0.0919	258
240	0.02	1091	8.66	1.393	0.1317	28.6	0.0867	99.9
260	0.38	1072	4.94*	1.442	0.1262	26.9	0.0820	60.2
280	4.32	1052*	3.08*	1.491	2.1207	25.2	0.0770	40.0
300	30.50	1032*	2.08*	1.540	0.1152	23.5	0.0725	28.7
320	151	1012	1.50*	1.589	0.1097	21.8	0.0680	22.1
340	571	992.4	1.17*	1.638	0.1042	20.1	0.0640	18.3
360	1762	972.6	0.90*	1.687	0.0987	18.4	0.0601	15.0
380	4630*	952.8	0.72*	1.736	0.0932	16.7	0.0563	12.8
400	$1.07 \cdot 10^{4*}$	933.0	0.61	1.785	0.0877	15.0	0.0527	11.6
420	$2.22 \cdot 10^{4*}$	913.2	0.53	1.834	0.0822	13.3	0.0491	10.8
440	$4.25 \cdot 10^{4*}$	893.4	0.47	1.883	0.0767	11.6	0.0456	10.3
460	$7.54 \cdot 10^{4*}$	873.6	0.43	1.932	0.0712	9.9	0.0422	10.2
480	$1.27 \cdot 10^{5*}$	853.8	0.39	1.981	0.0657	8.2	0.0388	10.0
500	$2.00 \cdot 10^5$	834.0	0.35	2.030	0.0602	6.5	0.0356	9.8
520	$3.04 \cdot 10^5$	814.2	0.32	2.079	0.0547	5.13	0.0323	9.9
540	$4.45 \cdot 10^5$	794.4	0.30	2.128	0.0492	3.87	0.0291	10.3
560	$6.30 \cdot 10^5$	774.6	0.29	2.177	0.0437	2.72	0.0259	11.0
580	$8.67 \cdot 10^5$	754.8	0.27	2.226	0.0382	1.78	0.0227	11.9
600	$1.16 \cdot 10^6$	735.0	0.26	2.275	0.0327	1.01	0.0196	13.3
620	$1.52 \cdot 10^6$	715.2	0.25	2.342	0.0272	0.43	0.0162	15.4

A.10.4: Oligomethylchlorosiloxane linear  $(\text{CH}_3)_7(\text{CH}_2\text{Cl})\text{Si}_3\text{O}_2$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	10.0	1019	31.2	1.425	0.1403	22.5	0.0966	323
220	53.3	998.4	13.1	1.476	0.1357	21.4	0.0925	142
240	187	977.8	7.02	1.527	0.1311	20.3	0.0882	79.6
260	523	957.2	3.88	1.578	0.1265	19.2	0.0842	46.1
280	1290	936.6*	2.37*	1.629	0.1219	18.1	0.0802	29.6
300	2860	916.0*	1.57*	1.680	0.1173	17.0	0.0762	20.6
320	6194	895.4	1.12	1.731	0.1127	15.9	0.0726	15.4
340	$1.18 \cdot 10^4$	874.8	0.86	1.782	0.1081	14.8	0.0692	12.4
360	$2.05 \cdot 10^{4*}$	854.2	0.68	1.833	0.1035	13.7	0.0660	10.3
380	$3.36 \cdot 10^{4*}$	833.6	0.56	1.884	0.0989	12.6	0.0629	8.9
400	$5.29 \cdot 10^4$	813.0	0.47	1.935	0.0943	11.5	0.0599	7.8
420	$8.08 \cdot 10^4$	792.4	0.41	1.986	0.0897	10.4	0.0570	7.2
440	$1.15 \cdot 10^5$	771.8	0.35	2.037	0.0851	9.3	0.0542	6.5
460	$1.61 \cdot 10^5$	751.2	0.31	2.088	0.0805	8.2	0.0515	6.0
480	$2.18 \cdot 10^5$	730.6	0.28	2.139	0.0759	7.1	0.0488	5.7
500	$2.93 \cdot 10^5$	710.0	0.25	2.190	0.0713	6.0	0.0459	5.5
520	$3.85 \cdot 10^5$	689.4	0.23	2.241	0.0667	4.9	0.0432	5.3
540	$4.85 \cdot 10^5$	668.8	0.21	2.292	0.0621	3.98	0.0405	5.2
560	$6.11 \cdot 10^5$	646.6	0.20	2.343	0.0575	3.08	0.0380	5.3
580	$7.55 \cdot 10^5$	623.6	0.19	2.394	0.0529	2.27	0.0354	5.4
600	$9.28 \cdot 10^5$	597.0	0.18	2.465	0.0470	1.56	0.0319	5.6
620	$1.11 \cdot 10^6$	565.4	0.17	2.598	0.0417	0.95	0.0284	6.0

A.10.5: Oligomethyldichlorosiloxane linear  $(\text{CH}_3)_6(\text{CH}_2\text{Cl})_2\text{Si}_3\text{O}_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	—	1117	63.7	1.376	0.1434	27.5	0.0933	683
220	0.02	1097	21.5	1.424	0.1384	26.1	0.0886	243
240	0.17	1077	10.0	1.472	0.1334	24.7	0.0842	119
260	1.11	1057	6.06*	1.520	0.1284	23.3	0.0798	75.9
280	5.62	1038*	4.01*	1.568	0.1234	21.9	0.0758	52.9
300	22.90	1018*	2.75*	1.616	0.1184	20.5	0.0720	38.2
320	81.50	998.3	2.01*	1.664	0.1134	19.1	0.0684	29.4
340	231	978.6	1.51*	1.712	0.1084	17.7	0.0647	23.3
360	602	958.9	1.17*	1.760	0.1034	16.3	0.0612	19.1
380	1425	939.2	0.93*	1.808	0.0984	14.9	0.0579	16.1
400	3106*	919.5	0.77	1.856	0.0934	13.5	0.0547	14.1
420	6220*	899.8	0.66	1.904	0.0884	12.1	0.0517	12.8
440	$1.19 \cdot 10^4$	880.1	0.57	1.952	0.0834	10.7	0.0487	11.7
460	$2.11 \cdot 10^4$	860.4	0.50	2.000	0.0784	9.3	0.0457	10.9
480	$3.55 \cdot 10^4$	840.7	0.44	2.048	0.0734	7.9	0.0427	10.3
500	$5.92 \cdot 10^4$	821.0	0.40	2.096	0.0684	6.7	0.0397	10.1
520	$9.21 \cdot 10^4$	801.3	0.37	2.144	0.0634	5.5	0.0369	10.0
540	$1.40 \cdot 10^5$	781.6	0.34	2.192	0.0584	4.4	0.0341	10.0
560	$2.09 \cdot 10^5$	761.9	0.32	2.240	0.0534	3.4	0.0313	10.2
580	$3.01 \cdot 10^5$	742.2	0.30	2.288	0.0484	2.4	0.0285	10.5
600	$4.20 \cdot 10^5$	722.5	0.28	2.336	0.0434	1.7	0.0257	10.9
620	$5.81 \cdot 10^5$	702.8	0.27	2.384	0.0384	1.1	0.0229	11.8

A.10.6: Oligomethyltrichlorosiloxane  $(\text{CH}_3)_5(\text{CH}_2\text{Cl})_3\text{Si}_3\text{O}_2$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	—	1209	128	1.353	0.1450	36.5	0.0886	1445
220	—	1189	38.5	1.401	0.1400	34.7	0.0840	458
240	0.01	1169	17.3	1.449	0.1350	32.9	0.0797	217
260	0.09	1149	10.2	1.497	0.1300	31.1	0.0756	135
280	0.60	1130*	6.72*	1.545	0.1250	29.3	0.0716	93.9
300	3.00	1110*	4.53*	1.593	0.1200	27.5	0.0679	66.8
320	11.20	1090	3.24*	1.641	0.1150	25.7	0.0643	50.4
340	42.40	1071	2.36*	1.689	0.1100	23.9	0.0608	38.8
360	126	1051	1.80*	1.737	0.1050	22.1	0.0574	31.4
380	317	1031	1.42*	1.785	0.1000	20.3	0.0542	26.2
400	838	1012	1.15	1.833	0.0950	18.5	0.0512	22.5
420	1770	991.8	0.96	1.881	0.0900	16.7	0.0483	19.9
440	3900*	972.1	0.83	1.929	0.0850	14.9	0.0454	18.3
460	7700*	952.4	0.72	1.977	0.0800	13.1	0.0426	16.9
480	$1.42 \cdot 10^4$	932.7	0.62	2.025	0.0750	11.3	0.0398	15.6
500	$2.46 \cdot 10^4$	913.0	0.55	2.073	0.0700	9.5	0.0370	14.9
520	$4.22 \cdot 10^4$	893.3	0.50	2.121	0.0650	7.9	0.0343	14.6
540	$6.76 \cdot 10^4$	873.6	0.46	2.169	0.0600	6.5	0.0317	14.5
560	$1.04 \cdot 10^5$	853.9	0.43	2.217	0.0550	5.2	0.0291	14.8
580	$1.58 \cdot 10^5$	834.2	0.40	2.265	0.0500	4.1	0.0265	15.1
600	$2.34 \cdot 10^5$	814.5	0.38	2.313	0.0450	3.0	0.0239	15.9
620	$3.38 \cdot 10^5$	794.8	0.36	2.361	0.0400	2.1	0.0213	16.9

A.10.7: Oligomethylchlorosiloxane linear  $(\text{CH}_3)_8(\text{CH}_2\text{Cl})_2\text{Si}_4\text{O}_3$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	—	1106	41.0	1.350	0.1440	26.0	0.0964	425
220	0.01	1086	20.9	1.398	0.1394	24.8	0.0918	228
240	0.09	1066	11.2	1.446	0.1348	23.6	0.0875	128
260	0.57	1046	7.28*	1.494	0.1302	22.4	0.0833	87.4
280	2.79	1027*	4.84*	1.542	0.1256	21.2	0.0792	61.1
300	11.10	1007*	3.26*	1.590	0.1210	20.0	0.0756	43.1
320	35.30	987.3	2.36*	1.638	0.1164	18.8	0.0720	32.8
340	104	967.6	1.83*	1.686	0.1118	17.6	0.0685	26.7
360	276	947.9	1.42*	1.734	0.1072	16.4	0.0651	21.8
380	595	928.2	1.11*	1.782	0.1026	15.2	0.0618	18.0
400	1380	908.5	0.90	1.830	0.0980	14.0	0.0589	15.3
420	2640	888.8	0.74	1.878	0.0934	12.8	0.0560	13.2
440	5120*	869.1	0.62	1.926	0.0888	11.6	0.0531	11.7
460	8920*	849.4	0.54	1.974	0.0842	10.4	0.0503	10.7
480	$1.48 \cdot 10^4$	829.7	0.46	2.022	0.0796	9.2	0.0475	9.7
500	$2.51 \cdot 10^4$	810.0	0.41	2.070	0.0750	8.0	0.0447	9.2
520	$3.97 \cdot 10^4$	790.3	0.37	2.118	0.0704	7.0	0.0420	8.8
540	$6.06 \cdot 10^4$	770.6	0.33	2.166	0.0658	6.0	0.0394	8.4
560	$8.79 \cdot 10^4$	750.9	0.30	2.214	0.0612	5.2	0.0368	8.3
580	$1.23 \cdot 10^5$	731.2	0.28	2.262	0.0566	4.3	0.0342	8.2
600	$1.72 \cdot 10^5$	711.5	0.26	2.310	0.0520	3.5	0.0316	8.2
620	$2.35 \cdot 10^5$	691.8	0.25	2.358	0.0474	2.8	0.0291	8.6

A.10.8: Oligomethylchlorosiloxane linear  $(\text{CH}_3)_5(\text{CH}_2\text{Cl})_2\text{Si}_3\text{O}_2$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	—	1333	95.0	1.385	0.1374	37.6	0.0744	1275
220	—	1313	26.5	1.435	0.1344	36.0	0.0712	372
240	—	1294	11.0	1.485	0.1314	34.4	0.0683	161
260	—	1274	5.91	1.535	0.1284	32.8	0.0657	90.0
280	0.003	1254*	3.43*	1.585	0.1254	31.2	0.0630	54.4
300	0.02	1235*	2.16*	1.635	0.1224	29.6	0.0606	35.6
320	0.12	1215	1.52	1.685	0.1194	28.0	0.0583	26.1
340	0.61	1195	1.17	1.735	0.1164	26.4	0.0561	20.9
360	3.30	1175	0.90	1.785	0.1134	24.8	0.0540	16.7
380	13.6	1156	0.71	1.835	0.1104	23.2	0.0521	13.6
400	44.5	1136	0.57	1.885	0.1074	21.6	0.0502	11.4
420	114*	1116	0.46	1.935	0.1044	20.0	0.0483	9.5
440	311*	1097	0.38	1.985	0.1014	18.4	0.0466	8.2
460	735	1077	0.33	2.035	0.0984	16.8	0.0449	7.4
480	1620	1057	0.29	2.085	0.0954	15.2	0.0433	6.7
500	3380	1038	0.26	2.135	0.0924	13.6	0.0417	6.2
520	6720	1018	0.23	2.185	0.0894	12.0	0.0402	5.7
540	$1.27 \cdot 10^4$	998.1	0.21	2.235	0.0864	10.4	0.0388	5.4
560	$2.29 \cdot 10^4$	978.4	0.19	2.285	0.0834	8.8	0.0373	5.1
580	$3.88 \cdot 10^4$	958.7	0.18	2.335	0.0804	7.3	0.0360	5.0
600	$6.57 \cdot 10^4$	939.0	0.17	2.385	0.0774	5.8	0.0346	4.9
620	$1.07 \cdot 10^5$	919.3	0.16	2.435	0.0728	4.6	0.0325	4.9

A.10.9: Oligomethylchlorosiloxane linear  $(\text{CH}_3)_6(\text{CH}_2\text{Cl})_4\text{Si}_4\text{O}_3$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	0.005	1194	118	1.526	0.1312	28.1	0.0720	1640
280	0.04	1175*	24.5	1.576	0.1272	26.7	0.0687	357
300	0.22	1155*	8.55	1.626	0.1232	25.5	0.0656	130
320	0.91	1135	4.64*	1.676	0.1192	24.2	0.0625	74.3
340	3.95	1116	3.48*	1.726	0.1152	22.9	0.0598	58.2
360	14.70	1096	2.80*	1.776	0.1112	21.6	0.0570	49.1
380	44.40	1077	2.18*	1.826	0.1072	20.3	0.0545	40.0
400	118	1057	1.82	1.876	0.1032	19.0	0.0520	35.0
420	293	1037	1.51	1.926	0.0992	17.7	0.0496	30.4
440	655*	1018	1.28	1.976	0.0952	16.4	0.0473	27.1
460	1420*	998.2	1.11	2.026	0.0912	15.1	0.0451	24.6
480	2765	978.6	0.96	2.076	0.0872	13.8	0.0429	22.4
500	5270	959.0	0.83	2.126	0.0832	12.5	0.0408	20.3
520	9265	939.4	0.74	2.176	0.0792	11.2	0.0384	19.3
540	$1.59 \cdot 10^4$	919.8	0.66	2.226	0.0752	9.9	0.0363	18.2
560	$2.64 \cdot 10^4$	900.2	0.60	2.276	0.0712	8.6	0.0343	17.5
580	$4.15 \cdot 10^4$	880.6	0.55	2.326	0.0672	7.4	0.0323	17.0
600	$6.41 \cdot 10^4$	861.0	0.52	2.376	0.0632	6.2	0.0308	16.8
620	$9.62 \cdot 10^4$	841.4	0.49	2.426	0.0592	5.2	0.0286	17.1
640	$1.41 \cdot 10^5$	821.8	0.47	2.476	0.0552	4.2	0.0268	17.5
660	$2.01 \cdot 10^5$	802.2	0.45	2.526	0.0512	3.3	0.0251	17.9
680	$2.82 \cdot 10^5$	782.6	0.44	2.576	0.0472	2.4	0.0234	18.8

A.10.10: Oligomethyldichlorosiloxane linear  $(\text{CH}_3)_{10}(\text{CH}_2\text{Cl})_2\text{Si}_5\text{O}_4$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
200	—	1099	56.0	1.346	0.1460	22.5	0.0987	567
220	0.004	1079	25.8	1.394	0.1414	21.5	0.0940	274
240	0.033	1059	14.0	1.442	0.1368	20.5	0.0896	156
260	0.226	1039	8.88*	1.490	0.1322	19.5	0.0854	104
280	1.16	1020*	5.90*	1.538	0.1276	18.5	0.0813	72.5
300	4.82	1000*	4.00*	1.586	0.1230	17.5	0.0776	51.5
320	17.50	980.3	2.80*	1.634	0.1184	16.5	0.0739	37.9
340	50.10	960.6	2.12*	1.682	0.1138	15.5	0.0705	30.1
360	141	940.9	1.63*	1.730	0.1092	14.5	0.0670	24.3
380	338	921.2	1.29*	1.778	0.1046	13.5	0.0639	20.2
400	697	901.5	1.02	1.826	0.1000	12.5	0.0607	16.8
420	1430	881.8	0.84	1.874	0.0954	11.5	0.0577	14.6
440	2710	862.1	0.70	1.922	0.0908	10.5	0.0546	12.8
460	3660*	842.4	0.60	1.970	0.0862	9.5	0.0519	11.6
480	8500*	822.7	0.52	2.018	0.0816	8.5	0.0492	10.6
500	$1.38 \cdot 10^4$	803.0	0.46	2.066	0.0770	7.6	0.0461	10.0
520	$2.16 \cdot 10^4$	783.3	0.41	2.114	0.0724	6.6	0.0430	9.5
540	$3.33 \cdot 10^4$	763.6	0.36	2.162	0.0678	5.7	0.0405	8.9
560	$4.95 \cdot 10^4$	743.9	0.33	2.210	0.0632	4.8	0.0381	8.7
580	$7.25 \cdot 10^4$	724.2	0.30	2.258	0.0586	4.0	0.0358	8.5
600	$1.02 \cdot 10^5$	704.5	0.28	2.306	0.0540	3.3	0.0332	8.4
620	$1.39 \cdot 10^5$	684.8	0.26	2.359	0.0494	2.6	0.0306	8.5



A.10.11: Oligomethyltrichlorosiloxane linear  $(\text{CH}_3)_9(\text{CH}_2\text{Cl})_3\text{Si}_5\text{O}_4$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	—	1160	484	1.344	0.1460	27.5	0.0936	5170
220	0.001	1140	122	1.392	0.1416	26.3	0.0892	1370
240	0.011	1120	38.9	1.440	0.1372	25.5	0.0851	457
260	0.080	1100	15.3*	1.488	0.1328	23.9	0.0812	188
280	0.44	1081*	8.32*	1.536	0.1284	22.7	0.0773	108
300	1.96	1061*	5.33*	1.584	0.1240	21.5	0.0738	72.2
320	7.45	1041	3.83*	1.632	0.1196	20.3	0.0705	54.3
340	23.00	1022	2.71*	1.680	0.1152	19.1	0.0673	40.3
360	63.40	1002	2.01*	1.728	0.1108	17.9	0.0642	31.3
380	163	982.2	1.57*	1.776	0.1064	16.7	0.0611	25.7
400	357	962.5	1.28	1.824	0.1020	15.5	0.0581	22.0
420	760	942.8	1.04	1.872	0.0976	14.3	0.0553	18.8
440	1470	923.1	0.87	1.920	0.0932	13.1	0.0526	16.5
460	2750	903.4	0.73	1.968	0.0888	11.9	0.0500	14.6
480	4890*	883.7	0.62	2.016	0.0844	10.7	0.0474	13.1
500	8350*	864.0	0.54	2.064	0.0800	9.5	0.0449	12.0
520	$1.35 \cdot 10^4$	844.3	0.49	2.112	0.0756	8.3	0.0425	11.5
540	$2.08 \cdot 10^4$	824.6	0.44	2.160	0.0712	7.1	0.0401	11.0
560	$3.03 \cdot 10^4$	804.9	0.40	2.208	0.0668	6.1	0.0376	10.6
580	$4.46 \cdot 10^4$	785.2	0.36	2.256	0.0624	5.0	0.0352	10.2
600	$6.51 \cdot 10^4$	765.5	0.33	2.304	0.0580	4.1	0.0329	10.0
620	$9.29 \cdot 10^4$	745.8	0.31	2.352	0.0536	3.3	0.0306	10.1

A.10.12: Oligomethylchlorosiloxane linear  $(\text{CH}_3)_6(\text{CH}_2\text{Cl})_2(\text{CHCl}_2)$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
220	—	1321	54.3	1.417	0.1394	35.1	0.0745	729
240	—	1302	15.2	1.466	0.1358	33.7	0.0712	214
260	—	1283	7.20	1.515	0.1322	32.3	0.0680	106
280	—	1264*	4.04*	1.564	0.1286	30.9	0.0651	62.1
300	0.003	1245*	2.64*	1.613	0.1250	29.5	0.0622	42.4
320	0.022	1225	1.92	1.622	0.1214	28.1	0.0598	32.1
340	0.124	1206	1.43	1.711	0.1178	26.7	0.0574	24.9
360	0.52	1187	1.09	1.760	0.1142	25.3	0.0550	19.8
380	2.02	1167	0.84	1.809	0.1106	23.9	0.0526	16.0
400	8.20	1148	0.66	1.858	0.1070	22.5	0.0502	13.2
420	27.90	1129	0.53	1.907	0.1034	21.1	0.0480	11.0
440	78.20*	1109	0.44	1.956	0.0998	19.7	0.0459	9.6
460	182*	1090	0.37	2.005	0.0962	18.3	0.0439	8.4
480	455	1071	0.32	2.054	0.0926	16.9	0.0420	7.6
500	1002	1052	0.28	2.103	0.0890	15.5	0.0402	7.0
520	1970	1032	0.25	2.152	0.0854	14.4	0.0384	6.5
540	3930	1013	0.22	2.201	0.0818	12.7	0.0367	6.0
560	7260	993.6	0.20	2.250	0.0782	11.3	0.0350	5.7
580	$1.30 \cdot 10^4$	974.3	0.18	2.299	0.0746	9.9	0.0333	5.4
600	$2.18 \cdot 10^4$	955.0	0.17	2.348	0.0710	8.5	0.0317	5.4
620	$3.74 \cdot 10^4$	935.7	0.16	2.397	0.0674	7.1	0.0301	5.3
640	$6.05 \cdot 10^4$	916.4	0.15	2.446	0.0638	5.8	0.0285	5.3

A.10.13: Oligomethylchlorosiloxane linear  $(\text{CH}_3)_{12}(\text{CH}_2\text{Cl})_2\text{Si}_6\text{O}_5$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	—	1086	443	1.366	0.1450	20.4	0.0977	4530
220	0.003	1067	116	1.415	0.1410	19.6	0.0934	1240
240	0.022	1047	38.1	1.464	0.1370	18.8	0.0892	427
260	0.142	1028	17.1	1.513	0.1330	18.0	0.0854	200
280	0.713	1009*	9.35*	1.562	0.1290	17.2	0.0818	114
300	1.86	989.5*	5.54*	1.611	0.1250	16.4	0.0784	70.6
320	4.85	970.2	3.74	1.660	0.1210	15.6	0.0751	49.8
340	12.20	950.9	2.77	1.709	0.1170	14.8	0.0720	38.5
360	30.60	931.6	2.14	1.758	0.1130	14.0	0.0690	31.0
380	87.20	912.3	1.71	1.807	0.1090	13.2	0.0662	25.8
400	208	893.0	1.35	1.856	0.1050	12.4	0.0634	21.3
420	450	873.7	1.07	1.905	0.1010	11.6	0.0608	17.6
440	910	854.4	0.94	1.954	0.0970	10.8	0.0583	16.1
460	1730	835.1	0.80	2.003	0.0930	10.0	0.0557	14.4
480	3366*	815.8	0.69	2.052	0.0890	9.2	0.0532	13.0
500	5916*	796.5	0.60	2.101	0.0850	8.4	0.0508	11.8
520	9955	777.2	0.52	2.150	0.0810	7.6	0.0484	10.7
540	$1.61 \cdot 10^4$	757.9	0.46	2.199	0.0770	6.8	0.0461	10.0
560	$2.55 \cdot 10^4$	738.6	0.41	2.248	0.0730	6.0	0.0438	9.4
580	$3.88 \cdot 10^4$	719.3	0.37	2.297	0.0690	5.2	0.0416	9.0
600	$5.73 \cdot 10^4$	700.0	0.33	2.346	0.0650	4.5	0.0396	8.4
620	$8.12 \cdot 10^4$	680.7	0.29	2.395	0.0610	3.8	0.0374	7.8

A.10.14: Oligomethylpentachlorosiloxane linear  $(\text{CH}_3)_7(\text{CH}_2\text{Cl})_5\text{SiO}_4$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	—	1278	900	1.346	0.1481	33.3	0.0861	$1.1 \cdot 10^4$
220	—	1259	202	1.393	0.1436	31.9	0.0819	2465
240	—	1239	73.5	1.440	0.1391	30.5	0.0780	943
260	—	1219	35.2	1.487	0.1346	29.1	0.0743	474
280	0.001	1200*	20.8	1.534	0.1301	27.7	0.0706	294
300	0.011	1180*	13.3	1.581	0.1256	26.3	0.0674	197
320	0.088	1160	9.47*	1.628	0.1211	24.9	0.0643	147
340	0.37	1141	6.68*	1.675	0.1166	23.5	0.0612	109
360	1.36	1121	4.77*	1.722	0.1121	22.1	0.0581	82.1
380	4.46	1101	3.49*	1.769	0.1076	20.7	0.0559	62.4
400	14.20	1082	2.64	1.816	0.1031	19.3	0.0527	50.1
420	43.80	1062	2.07	1.863	0.0986	17.9	0.0499	41.5
440	108	1042	1.76	1.910	0.0941	16.5	0.0473	37.2
460	252	1022	1.50	1.957	0.0896	15.1	0.0448	33.5
480	575*	1003	1.27	2.004	0.0851	13.7	0.0424	30.0
500	1200*	983.0	1.13	2.051	0.0806	12.3	0.0400	28.3
520	2380	963.3	0.99	2.098	0.0761	10.9	0.0377	26.3
540	4470	943.6	0.88	2.145	0.0716	9.5	0.0354	24.9
560	7820	923.9	0.80	2.192	0.0671	8.1	0.0331	24.1
580	$1.29 \cdot 10^4$	904.2	0.73	2.239	0.0626	6.7	0.0309	23.6
600	$2.15 \cdot 10^4$	884.5	0.67	2.286	0.0581	5.4	0.0287	23.4
620	$3.62 \cdot 10^4$	868.8	0.62	2.333	0.0536	4.2	0.0266	23.3

A.10.15: Oligomethyltetrachlorosiloxane linear  $(\text{CH}_3)_{10}(\text{CH}_2\text{Cl})_4\text{Si}_6\text{O}_5$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	—	1196	309	1.345	0.1480	29.0	0.0920	3360
220	—	1177	98.5	1.392	0.1437	27.8	0.0870	1130
240	—	1157	45.5	1.439	0.1394	26.6	0.0830	548
260	0.007	1137	23.9*	1.486	0.1351	25.4	0.0795	301
280	0.045	1118*	13.8*	1.533	0.1308	24.2	0.0761	181
300	0.24	1098*	9.13*	1.580	0.1265	23.0	0.0729	125
320	1.08	1078	6.07*	1.627	0.1222	21.8	0.0699	86.8
340	3.64	1059	4.41*	1.674	0.1179	20.6	0.0669	65.9
360	11.80	1039	3.23*	1.721	0.1136	19.4	0.0639	50.5
380	33.10	1019	2.44*	1.768	0.1093	18.2	0.0609	40.1
400	83.30	999.5	1.89	1.815	0.1050	17.0	0.0579	32.7
420	192	979.8	1.51	1.862	0.1007	15.8	0.0553	27.3
440	404	960.1	1.24	1.909	0.0964	14.6	0.0527	23.5
460	810	940.4	1.06	1.956	0.0921	13.4	0.0502	21.1
480	1550	920.7	0.91	2.003	0.0878	12.2	0.0477	19.1
500	2830	901.0	0.79	2.050	0.0835	11.0	0.0452	17.5
520	4770*	881.3	0.69	2.097	0.0792	9.8	0.0428	16.1
540	7550	861.6	0.61	2.144	0.0749	8.7	0.0405	15.1
560	$1.26 \cdot 10^4$	841.9	0.55	2.191	0.0706	7.5	0.0382	14.4
580	$1.85 \cdot 10^4$	822.2	0.50	2.238	0.0663	6.3	0.0360	13.9
600	$2.82 \cdot 10^4$	802.5	0.46	2.285	0.0620	5.2	0.0338	13.6
620	$4.22 \cdot 10^4$	773.2	0.43	2.332	0.0577	4.2	0.0320	13.4

A.10.16: Oligomethylchlorosiloxane cyclic  $(\text{CH}_3)_5\text{ClSi}_3\text{O}_3$ 

$T, \text{K}$	$p, \text{Pa}$	$\rho, \text{kg/m}^3$	$\nu \cdot 10^6, \text{m}^2/\text{s}$	$c_p, \text{kJ}/(\text{kg}\cdot\text{K})$	$\lambda, \text{W}/(\text{m}\cdot\text{K})$	$\sigma \cdot 10^3, \text{N/m}$	$a \cdot 10^6, \text{m}^2/\text{s}$	Pr
200	0.05	1124	62.0	1.434	0.1390	32.7	0.0862	720
220	0.47	1103	29.6	1.476	0.1344	22.4	0.0822	360
240	3.25	1082	17.3	1.538	0.1298	21.1	0.0782	221
260	19.30	1061	10.4	1.590	0.1252	19.8	0.0744	140
280	78.00	1040*	6.10*	1.642	0.1206	18.5	0.0708	86.2
300	228	1019*	4.88*	1.694	0.1160	17.2	0.0672	72.6
320	662*	998	3.55	1.746	0.1114	15.9	0.0638	55.6
340	1720*	977	2.66	1.798	0.1068	14.6	0.0606	43.9
360	3867	956	2.09	1.850	0.1022	13.3	0.0578	36.1
380	8150	935	1.74	1.902	0.0976	12.0	0.0546	31.7
400	$1.59 \cdot 10^4$	914	1.45	1.854	0.0930	10.7	0.0521	27.8
420	$2.92 \cdot 10^4$	893	1.22	2.006	0.0884	9.4	0.0495	24.6
440	$5.08 \cdot 10^4$	872	1.08	2.058	0.0838	8.1	0.0469	23.0
460	$8.40 \cdot 10^4$	851	0.97	2.110	0.0792	6.8	0.0443	21.9
480	$1.33 \cdot 10^5$	830	0.87	2.162	0.0746	5.6	0.0417	20.9
500	$2.06 \cdot 10^5$	809	0.80	2.214	0.0700	4.5	0.0391	20.5
520	$3.03 \cdot 10^5$	788	0.74	2.266	0.0654	3.5	0.0365	20.3
540	$4.34 \cdot 10^5$	767	0.69	2.318	0.0608	2.7	0.0338	20.4
560	$6.12 \cdot 10^5$	745	0.66	2.370	0.0562	1.9	0.0311	21.2
580	$8.31 \cdot 10^5$	721	0.63	2.442	0.0515	1.3	0.0284	22.2
600	$1.12 \cdot 10^6$	694	0.60	2.568	0.0458	0.8	0.0257	23.3
620	$1.47 \cdot 10^6$	667	0.58	2.814	0.0386	0.35	0.0206	28.2

A.10.17: Oligomethylchlorosiloxane cyclic  $(\text{CH}_3)_9\text{ClSi}_5\text{O}_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	0.00	1071	39.1	1.539	0.1296	20.8	0.0786	497
280	0.02	1052	13.0	1.589	0.1256	19.8	0.0753	173
300	0.15	1032	6.79	1.639	0.1216	18.8	0.0721	94.2
320	0.67	1012	4.30	1.689	0.1176	17.8	0.0690	62.3
340	2.95	992.4	3.19	1.739	0.1136	16.8	0.0660	48.3
360	12.80	972.6	2.41	1.789	0.1096	15.8	0.0630	38.3
380	41.40	952.8	1.92	1.839	0.1056	14.8	0.0602	31.9
400	120*	933.0	1.51	1.889	0.1016	13.8	0.0576	26.2
420	311*	913.2	1.24	1.939	0.0976	12.8	0.0552	22.5
440	785	893.4	1.06	1.989	0.0936	11.8	0.0526	20.2
460	1700	873.6	0.91	2.039	0.0896	10.8	0.0503	18.1
480	3410	853.8	0.79	2.089	0.0856	9.8	0.0481	16.4
500	6920	834.0	0.70	2.139	0.0816	8.8	0.0460	15.2
520	$1.24 \cdot 10^4$	814.2	0.64	2.189	0.0776	7.8	0.0438	14.6
540	$2.20 \cdot 10^4$	794.4	0.59	2.239	0.0736	6.8	0.0416	14.2
560	$3.84 \cdot 10^4$	774.6	0.54	2.289	0.0696	5.8	0.0393	13.8
580	$6.36 \cdot 10^4$	754.8	0.50	2.339	0.0656	4.8	0.0372	13.4
600	$9.74 \cdot 10^4$	735.0	0.47	2.389	0.0616	3.8	0.0352	13.4
620	$1.50 \cdot 10^5$	715.2	0.45	2.439	0.0576	3.0	0.0330	13.6
640	$2.33 \cdot 10^5$	695.4	0.43	2.489	0.0536	2.2	0.0306	14.1
660	$3.30 \cdot 10^5$	675.6	0.41	2.539	0.0480	1.4	0.0280	14.7
680	$4.72 \cdot 10^5$	655.8	0.39	2.589	0.0410	0.4	0.0241	16.2

A.10.18: Oligomethylchlorosiloxane cyclic  $(\text{CH}_3)_7(\text{C}_6\text{H}_4\text{Cl})\text{Si}_4\text{O}_4$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
220	0.004	1160	890	1.445	0.1362	28.3	0.0813	$1.1 \cdot 10^4$
240	0.04	1141	160	1.495	0.1326	27.1	0.0777	2060
260	0.29	1121	44.8	1.545	0.1290	25.9	0.0745	601
280	1.54	1101*	16.1*	1.595	0.1254	24.7	0.0711	226
300	6.54	1081*	8.55*	1.645	0.1218	23.5	0.0683	125
320	21.80	1061	5.69	1.695	0.1182	22.3	0.0657	86.6
340	66.60	1041	4.01	1.745	0.1146	21.1	0.0628	63.9
360	192	1022	2.98	1.795	0.1110	19.9	0.0604	49.3
380	463	1002	2.31	1.845	0.1074	18.7	0.0580	39.8
400	1090	982.0	1.86	1.895	0.1038	17.5	0.0557	33.4
420	2150*	962.2	1.53	1.945	0.1002	16.3	0.0535	28.6
440	4160*	942.4	1.24	1.995	0.0966	15.1	0.0515	24.1
460	7587	922.6	1.05	2.045	0.0930	13.9	0.0495	21.2
480	$1.32 \cdot 10^4$	902.8	0.90	2.095	0.0894	12.7	0.0475	18.9
500	$2.19 \cdot 10^4$	883.0	0.80	2.145	0.0858	11.5	0.0455	17.6
520	$3.60 \cdot 10^4$	863.2	0.72	2.195	0.0822	10.3	0.0434	16.6
540	$5.39 \cdot 10^4$	843.4	0.66	2.245	0.0786	9.1	0.0416	15.9
560	$8.30 \cdot 10^4$	823.6	0.61	2.295	0.0750	7.9	0.0398	15.3
580	$1.18 \cdot 10^5$	803.8	0.57	2.345	0.0714	6.7	0.0380	15.0
600	$1.66 \cdot 10^5$	784.0	0.53	2.395	0.0678	5.5	0.0362	14.7
620	$2.31 \cdot 10^5$	764.2	0.50	2.445	0.0642	4.4	0.0344	14.6
640	$3.13 \cdot 10^5$	744.4	0.47	2.495	0.0606	3.3	0.0326	14.4

## A.11: Oligomethylphenylchlorosiloxane

A.11.1: Oligomethylphenylchlorosiloxane linear  $(\text{CH}_3)_{10}(\text{C}_6\text{H}_5)_3(\text{C}_6\text{H}_4\text{Cl})\text{Si}_6\text{O}_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
240	—	1351	3950*	1.424	0.1397	34.5	0.0726	$5.4 \cdot 10^4$
260	—	1331	1170*	1.478	0.1363	33.4	0.0693	$1.7 \cdot 10^4$
280	—	1312*	202*	1.532	0.1329	32.3	0.0661	3055
300	0.000	1292*	72.5*	1.586	0.1295	31.2	0.0632	1150
320	0.007	1272	34.7*	1.640	0.1261	30.1	0.0606	573
340	0.055	1253	21.4*	1.694	0.1227	29.0	0.0580	369
360	0.300	1233	15.2	1.748	0.1193	27.9	0.0554	274
380	1.29	1213	11.7	1.802	0.1159	26.8	0.0530	221
400	4.54	1194	9.63	1.856	0.1125	25.7	0.0508	190
420	13.70	1174	7.81	1.910	0.1091	24.6	0.0487	160
440	36.60	1154	6.47	1.964	0.1057	23.5	0.0467	139
460	88.80	1134	5.42	2.018	0.1023	22.4	0.0447	121
480	187	1115	4.55	2.072	0.0989	21.3	0.0428	106
500	394	1095	3.95	2.126	0.0955	20.2	0.0410	96.3
520	742	1075	3.50	2.180	0.0921	19.1	0.0393	89.1
540	1250	1056	3.12	2.234	0.0887	18.0	0.0377	82.8
560	2050	1036	2.78	2.288	0.0853	16.9	0.0361	77.0
580	3250	1016	2.52	2.342	0.0819	15.8	0.0345	73.2
600	4910	996.5	2.29	2.396	0.0785	14.7	0.0329	69.7
620	7950	976.8	2.09	2.450	0.0751	13.6	0.0314	66.6
640	$1.16 \cdot 10^4$	957.1	1.91	2.504	0.0717	12.5	0.0299	63.8
660	$1.65 \cdot 10^4$	937.4	1.77	2.558	0.0683	11.4	0.0285	62.1

A.11.2: Oligomethylphenyldichlorosiloxane linear  $(\text{CH}_3)_{10}(\text{C}_6\text{H}_5)_2(\text{C}_6\text{H}_4\text{Cl})_2\text{Si}_6\text{O}_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
240	—	1155	22000	1.420	0.1318	42.2	0.0847	$2.6 \cdot 10^5$
260	—	1135	2800*	1.474	0.1359	40.9	0.0812	$3.5 \cdot 10^4$
280	—	1117*	460*	1.528	0.3129	39.6	0.0779	5900
300	—	1096*	130*	1.582	0.1299	38.3	0.0749	1735
320	0.000	1076	48*	1.636	0.1269	37.0	0.0719	668
340	0.007	1057	26*	1.690	0.1239	35.7	0.0689	377
360	0.062	1037	17.10	1.744	0.1209	34.4	0.0664	258
380	0.0381	1018	12.50	1.798	0.1179	33.1	0.0643	194
400	1.74	998.0	9.90	1.852	0.1149	31.8	0.0622	159
420	6.37	978.4	8.10	1.906	0.1119	30.5	0.0602	135
440	19.20	958.8	6.70	1.960	0.1089	29.2	0.0582	115
460	51.50	939.2	5.40	2.014	0.1059	27.9	0.0562	96.1
480	121	919.6	4.55	2.068	0.1029	26.6	0.0542	83.9
500	246	900.0	3.85	2.122	0.0999	25.3	0.0523	73.6
520	483	880.4	3.33	2.176	0.0969	24.0	0.0505	65.9
540	933	860.8	2.88	2.230	0.0939	22.7	0.0489	58.9
560	1600	841.2	2.50	2.284	0.0909	21.4	0.0473	52.9
580	2600	821.6	2.20	2.338	0.0879	20.1	0.0458	48.0
600	4160	802.0	1.96	2.392	0.0849	18.8	0.0443	44.3
620	5100	782.4	1.75	2.446	0.0819	17.5	0.0428	40.9
640	9100	762.8	1.55	2.500	0.0789	16.2	0.0414	37.4
660	$1.31 \cdot 10^4$	743.2	1.40	2.554	0.0759	14.9	0.0400	35.0

A.11.3: Oligomethylphenyltrichlorosiloxane linear  $(\text{CH}_3)_{10}(\text{C}_6\text{H}_5)_3(\text{C}_6\text{H}_2\text{Cl}_3)\text{Si}_6\text{O}_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
240	—	1214	$9 \cdot 10^4$	1.419	0.1390	43.2	0.0807	$1.1 \cdot 10^6$
260	—	1194	7100*	1.472	0.1360	41.8	0.0774	$9.2 \cdot 10^4$
280	—	1175*	1080*	1.525	0.1330	40.4	0.0742	$1.5 \cdot 10^4$
300	—	1155*	192*	1.578	0.1300	39.0	0.0713	2690
320	0.000	1135	61.5*	1.631	0.1270	37.6	0.0686	896
340	0.006	1116	32.5*	1.684	0.1240	36.2	0.0661	492
360	0.051	1096	21.3	1.737	0.1210	34.8	0.0636	335
380	0.314	1077	15.2	1.790	0.1180	33.4	0.0612	248
400	1.46	1057	11.7	1.843	0.1150	32.0	0.0590	198
420	5.68	1037	9.45	1.896	0.1120	30.6	0.0571	166
440	17.70	1018	7.77	1.949	0.1090	29.2	0.0552	141
460	45.50	998.2	6.48	2.002	0.1060	27.8	0.0533	122
480	112	978.6	5.39	2.055	0.1030	26.4	0.0514	105
500	229	959.0	4.54	2.108	0.1000	25.0	0.0495	91.8
520	444	939.4	3.98	2.161	0.0970	23.6	0.0479	83.1
540	808	919.8	3.50	2.214	0.0940	22.2	0.0463	75.6
560	1450	900.2	3.09	2.267	0.0910	20.8	0.0447	69.1
580	2390	880.6	2.79	2.320	0.0880	19.4	0.0431	64.7
600	3790	861.0	2.51	2.373	0.0850	18.0	0.0416	60.3
620	5760	841.4	2.30	2.426	0.0820	16.6	0.0402	57.2
640	8500	821.8	2.15	2.479	0.0790	15.2	0.0388	55.4
660	$1.2 \cdot 10^4$	802.2	2.02	2.532	0.0760	13.8	0.0374	54.0

A.11.4: Oligomethylphenylchlorosiloxane linear  $(\text{CH}_3)_{10}(\text{C}_6\text{H}_5)_3(\text{C}_6\text{HCl}_4)\text{Si}_6\text{O}_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	—	1229	$4.8 \cdot 10^4$ *	1.481	0.1359	37.2	0.0747	$6.4 \cdot 10^5$
280	0.003	1211*	1850*	1.527	0.1336	36.2	0.0723	$2.6 \cdot 10^4$
300	0.015	1192*	294*	1.573	0.1313	35.2	0.0700	4200
320	0.06	1173	79.5*	1.619	0.1290	34.2	0.0680	1170
340	0.22	1155	35.5*	1.665	0.1267	33.2	0.0660	538
360	0.80	1136	19.6	1.711	0.1244	32.2	0.0642	305
380	2.38	1118	12.2	1.757	0.1221	31.2	0.0642	196
400	6.09	1099	8.36	1.803	0.1198	30.2	0.0605	138
420	13.90	1080	5.98	1.849	0.1175	29.2	0.0590	101
440	30.20	1062	4.51	1.895	0.1152	28.2	0.0575	78.4
460	61.50	1043	3.58	1.941	0.1129	27.2	0.0560	63.9
480	118	1024	2.88	1.987	0.1106	26.2	0.0545	52.8
500	207*	1006	2.31	2.033	0.1083	25.2	0.0530	43.6
520	366*	987.4	1.92	2.079	0.1060	24.2	0.0516	37.2
540	622	968.8	1.60	2.125	0.1037	23.2	0.0503	31.8
560	1012	950.2	1.36	2.171	0.1014	22.2	0.0491	27.7
580	1575	931.6	1.16	2.217	0.0991	21.2	0.0480	24.2
600	2350	913.0	1.00	2.263	0.0961	20.2	0.0469	21.3
620	3450	894.4	0.80	2.309	0.0945	19.2	0.0458	17.5
640	4950	875.8	0.74	2.355	0.0922	18.2	0.0447	16.6
660	6900	857.2	0.68	2.401	0.0899	17.2	0.0437	15.6
680	9630	838.6	0.62	2.447	0.0876	16.2	0.0427	14.5

A.11.5: Oligomethylphenylchlorosiloxane linear  $(\text{CH}_3)_{10}(\text{C}_6\text{H}_5)_3(\text{C}_6\text{H}_3\text{Cl}_2)_3\text{Si}_6\text{O}_5$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
260	—	1293	$3.4 \cdot 10^5$	1.478	0.1371	47.0	0.0717	$4.7 \cdot 10^6$
280	0.001	1274*	$3.1 \cdot 10^{4*}$	1.523	0.1347	45.8	0.0694	$4.5 \cdot 10^5$
300	0.006	1256*	6395*	1.568	0.1323	44.6	0.0671	$9.5 \cdot 10^4$
320	0.03	1237	1720	1.613	0.1299	43.4	0.0650	$2.7 \cdot 10^4$
340	0.12	1219	601	1.658	0.1275	42.2	0.0631	9525
360	0.42	1200	213	1.703	0.1251	41.0	0.0612	3480
380	1.27	1182	91.5	1.748	0.1227	39.8	0.0594	1540
400	3.47	1163	41.9	1.793	0.1203	38.6	0.0576	727
420	8.39	1145	21.3	1.838	0.1179	37.4	0.0560	380
440	19.20	1126	13.0	1.883	0.1155	36.2	0.0545	239
460	40.40	1108	9.35	1.928	0.1131	35.0	0.0529	177
480	79.40	1089	6.82	1.973	0.1107	33.8	0.0515	132
500	153	1071	5.47	2.018	0.1083	32.6	0.0501	109
520	275*	1052	4.47	2.063	0.1059	31.4	0.0488	91.6
540	460*	1034	3.81	2.108	0.1035	30.2	0.0475	80.2
560	770	1015	3.20	2.153	0.1011	29.0	0.0463	69.2
580	1230	996.5	2.78	2.198	0.0987	27.8	0.0451	61.6
600	1870	978.0	2.41	2.243	0.0963	26.6	0.0440	54.8
620	2860	959.5	2.11	2.288	0.0939	25.4	0.0429	49.2
640	4160	940.0	1.89	2.333	0.0915	24.2	0.0417	45.3
660	5950	922.5	1.70	2.378	0.0891	23.0	0.0406	41.9
680	8250	904.0	1.52	2.423	0.0867	21.8	0.0396	38.4

A.11.6: Oligomethylphenylchlorosiloxane cyclic  $(\text{CH}_3)_6(\text{C}_6\text{H}_4\text{Cl})_2\text{Si}_4\text{O}_4$ 

$T$ , K	$p$ , Pa	$\rho$ , kg/m <sup>3</sup>	$\nu \cdot 10^6$ , m <sup>2</sup> /s	$c_p$ , kJ/(kg·K)	$\lambda$ , W/(m·K)	$\sigma \cdot 10^3$ , N/m	$a \cdot 10^6$ , m <sup>2</sup> /s	Pr
240	—	1226	1560	1.461	0.1341	33.2	0.0749	$2.1 \cdot 10^4$
260	0.003	1207	400	1.510	0.1309	32.1	0.0715	5595
280	0.024	1188*	106*	1.559	0.1277	31.0	0.0685	1547
300	0.135	1169*	28.1*	1.618	0.1245	29.8	0.0658	427
320	0.69	1150	10.2	1.667	0.1213	28.6	0.0631	162
340	2.55	1130	5.42	1.716	0.1181	27.4	0.0606	89.4
360	7.74	1111	3.41	1.765	0.1149	26.2	0.0584	58.4
380	20.50	1091	2.51	1.814	0.1117	25.0	0.0563	44.6
400	56.00	1072	1.96	1.863	0.1085	23.8	0.0543	36.1
420	140	1053	1.56	1.912	0.1053	22.6	0.0523	29.8
440	306*	1033	1.23	1.961	0.1021	21.4	0.0503	24.5
460	635*	1014	1.01	2.010	0.0989	20.2	0.0484	20.9
480	1220	994.4	0.83	2.059	0.0957	19.0	0.0466	17.8
500	2210	975.0	0.71	2.108	0.0925	17.8	0.0450	15.8
520	3950	955.6	0.62	2.157	0.0893	16.6	0.0434	14.3
540	6600	936.2	0.54	2.206	0.0861	15.4	0.0418	12.9
560	$1.07 \cdot 10^4$	916.8	0.48	2.255	0.0829	14.2	0.0402	11.9
580	$1.72 \cdot 10^4$	897.4	0.44	2.304	0.0797	13.0	0.0386	11.4
600	$2.54 \cdot 10^4$	878.0	0.40	2.353	0.0765	11.8	0.0370	10.8
620	$3.81 \cdot 10^4$	858.6	0.37	2.402	0.0733	10.6	0.0355	10.4
640	$5.43 \cdot 10^4$	839.2	0.34	2.451	0.0701	9.4	0.0340	10.0
660	$7.67 \cdot 10^4$	819.8	0.31	2.500	0.0669	8.2	0.0326	9.5

## A.12: Oligomethoxychlorosiloxanes

A.12.1: Oligomethoxydichlorosiloxane  $(C_2H_4Cl)_2(CH_3O)_4Si_2O$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
200	—	1281	158	1.355	0.1445	38.6	0.0833	1900
220	—	1261	41.1	1.403	0.1394	36.7	0.0788	522
240	—	1241	16.6	1.451	0.1343	34.8	0.0746	223
260	—	1221	9.64	1.499	0.1292	32.9	0.0706	137
280	0.03	1202*	6.77*	1.547	0.1241	31.0	0.0667	101
300	0.33	1182*	4.94*	1.595	0.1190	29.1	0.0631	78.3
320	1.97	1163	3.68	1.643	0.1139	27.2	0.0596	61.7
340	12.60	1144	2.86	1.691	0.1088	25.3	0.0568	50.4
360	69.50	1124	2.31	1.739	0.1037	23.4	0.0536	43.1
380	248*	1104	1.88	1.787	0.0986	21.5	0.0502	37.5
400	689*	1084	1.56	1.835	0.0935	19.6	0.0470	33.2
420	1770	1064	1.28	1.883	0.0884	17.7	0.0440	29.1
440	4180	1044	1.10	1.931	0.0833	15.8	0.0412	26.7
460	8510	1024	0.96	1.979	0.0782	13.9	0.0386	24.9
480	$1.64 \cdot 10^4$	1005	0.86	2.027	0.0731	12.0	0.0360	23.9
500	$3.14 \cdot 10^4$	985.0	0.78	2.075	0.0680	10.1	0.0333	23.4
520	$5.36 \cdot 10^4$	965.3	0.72	2.123	0.0629	8.4	0.0308	23.4
540	$8.89 \cdot 10^4$	945.6	0.66	2.171	0.0578	6.7	0.0282	23.4
560	$1.41 \cdot 10^5$	925.9	0.62	2.219	0.0527	5.1	0.0257	24.1
580	$2.15 \cdot 10^5$	906.2	0.58	2.267	0.0476	3.8	0.0232	25.0
600	$3.10 \cdot 10^5$	886.5	0.54	2.315	0.0425	2.7	0.0207	26.0
620	$4.45 \cdot 10^5$	866.8	0.51	2.363	0.0374	1.7	0.0183	27.9

A.12.2: Oligomethylpropyloxychlorosiloxane  $(C_2H_4Cl)_2(C_3H_7O)_4Si_2O$ 

$T, K$	$p, Pa$	$\rho, kg/m^3$	$\nu \cdot 10^6, m^2/s$	$c_p, kJ/(kg \cdot K)$	$\lambda, W/(m \cdot K)$	$\sigma \cdot 10^3, N/m$	$a \cdot 10^6, m^2/s$	Pr
220	—	1161	73.7	1.429	0.1382	33.1	0.0869	848
240	—	1142	27.3	1.479	0.1344	31.7	0.0808	338
260	0.002	1123	13.2	1.529	0.1306	30.3	0.0767	172
280	0.022	1104*	8.02*	1.579	0.1268	28.9	0.0727	110
300	0.18	1084*	5.18*	1.629	0.1230	24.5	0.0697	74.3
320	0.87	1064	3.60	1.679	0.1192	26.1	0.0668	53.9
340	2.80	1045	2.68	1.729	0.1154	24.7	0.0640	41.9
360	9.55	1025	2.03	1.779	0.1116	23.3	0.0612	33.2
380	31.30	1006	1.61	1.829	0.1078	21.9	0.0588	27.4
400	91.8*	986.0	1.29	1.879	0.1040	20.5	0.0562	23.0
420	231*	966.4	1.05	1.929	0.1002	19.1	0.0538	19.5
440	550	946.8	0.88	1.979	0.0964	17.7	0.0525	16.8
460	1211	927.2	0.75	2.029	0.0926	16.3	0.0492	15.2
480	2420	907.6	0.65	2.079	0.0888	14.9	0.0471	13.8
500	4600	888.0	0.57	2.129	0.0850	13.5	0.0450	12.7
520	8805	868.4	0.51	2.179	0.0812	12.1	0.0439	11.6
540	$1.55 \cdot 10^4$	848.8	0.46	2.229	0.0774	10.7	0.0409	11.2
560	$2.77 \cdot 10^4$	829.2	0.43	2.279	0.0736	9.3	0.0389	11.0
580	$4.44 \cdot 10^4$	809.6	0.41	2.329	0.0698	7.9	0.0369	11.1
600	$6.69 \cdot 10^4$	790.0	0.39	2.379	0.0660	6.5	0.0349	11.2
620	$1.02 \cdot 10^5$	770.4	0.37	2.429	0.0622	5.1	0.0331	11.2
640	$1.53 \cdot 10^5$	750.8	0.35	2.479	0.0584	3.9	0.0314	11.3