APPENDIX

Tables of Viscosity and Thermal Conductivity for Some Commercially Important Substances

The data on viscosity and thermal conductivity presented in the supplement were calculated for the substances under study according to Equations 4.1 and 4.2.

The viscosity and thermal conductivity at the zero-density limit, $\eta_0(T)$ and $\lambda_0(T)$, respectively, were calculated by Equations 4.4 and 4.5 in the temperature range 200–700 K with a 10 K step, which allows a reliable interpolation at intermediate temperatures. The coefficients used in these calculations are listed in Tables 21 and 22. The same values of ε/k_B were used in the calculation of viscosity and thermal conductivity (Table 21).

The fluctuation component of viscosity $\Delta\eta_c(\rho, T)$ was determined using Equation 4.8 which follows from the pseudospinodal hypothesis. The coefficients for this equation are given in Tables 23 and 24. The values of the critical viscosity exponent φ for each substance were obtained from the experimental data (Table 9).

The excessive component of viscosity $\Delta\eta(\rho)$ was calculated according to Equation 4.12, using the coefficients from Table 26. This table does not contain coefficients for carbon dioxide, because another expression for $\Delta\eta(\rho)$ taken

from [273] was used for this substance, which differs from Equation 4.12.

The fluctuation component of thermal conductivity $\Delta\lambda_c(\rho, T)$ was calculated by Equation 4.10. The required values for viscosity were determined from Equation 4.1 and the values for derivatives $(\partial P / \partial T)_\rho$ and $(\partial P / \partial \rho)_T$ were obtained using the Equation of state 4.15 which follows from the pseudo-spinodal hypothesis. The values of Λ_0 for the singular component of thermal conductivity and of the coefficients in the Equation of state 4.15 are listed in Tables 25 and 28, respectively.

The excessive component of thermal conductivity $\Delta\lambda(\rho)$ was found from Equation 4.14, using the coefficients given in Table 27. For carbon dioxide, the calculations were made with the coefficients taken from [273]. We could not determine the corresponding coefficients for chlorobenzene and fluorobenzene because of the lack of reliable experimental data on their thermal conductivity.

The simple system for calculating viscosity and thermal conductivity of the substances under consideration allows any specialist to calculate these properties in the whole range of pre-set independent parameters, for which the equations derived in Chapter 4 are valid, using a personal computer. Therefore, the tables in the Supplement, in addition to the value of their own, can be used for developing and testing computer programs and computations. For the calculations, we used the following critical parameters $\alpha = 0.112$, $\beta = 0.325$, $\gamma = 1.24$, and $\Delta = 0.5$ and the physico-chemical properties of the substances given in the table below.

Substance	Chemical formula	Molecular weight	T_c (K)	P_c (MPa)	ρ_c (kg/m^3)	T_{melt} (K)	T_{boil} (K)
Benzene	C_6H_6	78.108	562.60	4.9429	301.2	278.67	353.25
Toluene	C_7H_8	92.134	593.95	4.2358	289.8	178.16	383.78
Chlorobenzene	C_6H_5Cl	112.600	632.35	4.5191	365.0	227.57	404.85
Fluorobenzene	C_6H_5F	96.100	560.05	4.5495	357.0	231.95	358.25
Ethylbenzene	C_8H_{10}	106.160	619.55	3.7195	290.0	178.20	409.34
o-Xylene	C_8H_{10}	106.160	631.59	3.8081	286.5	247.98	417.59
Carbon dioxide	CO_2	44.011	304.107	7.3721	467.69	194.68	216.58

Table I Viscosity and Thermal Conductivity of Benzene at Low Densities ($\rho \to 0$)

Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, W·m^{-1}K^{-1})	Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, W·m^{-1}K^{-1})
200	48.01	1.21	460	111.98	25.36
210	50.25	1.90	470	114.40	26.44
220	52.63	2.80	480	116.80	27.54

Table I Viscosity and Thermal Conductivity of Benzene at Low Densities ($\rho \rightarrow 0$) *(Continued)*

Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)	Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)
230	55.10	3.89	490	119.19	28.65
240	57.61	5.07	500	121.57	29.76
250	60.11	6.25	510	123.94	30.89
260	62.62	7.37	520	126.29	32.03
270	65.12	8.39	530	128.63	33.17
280	67.60	9.31	540	130.95	34.32
290	70.10	10.17	550	133.26	35.47
300	72.53	10.97	560	135.56	36.62
310	75.00	11.75	570	137.84	37.77
320	77.47	12.52	580	140.11	38.92
330	79.94	13.30	590	142.37	40.06
340	82.42	14.08	600	144.61	41.20
350	84.90	14.89	610	146.83	42.32
360	87.38	15.72	620	149.04	43.44
370	89.85	16.57	630	151.24	44.55
380	92.33	17.45	640	153.43	45.64
390	94.81	18.36	650	155.60	46.71
400	97.28	19.29	660	157.76	47.77
410	99.75	20.25	670	159.90	48.81
420	102.21	21.23	680	162.03	49.83
430	104.67	22.23	690	164.15	50.82
440	107.11	23.26	700	166.26	51.79
450	109.55	24.30			

Table II Viscosity and Thermal Conductivity of Toluene at Low Densities ($\rho \rightarrow 0$)

Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)	Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)
200	47.09	0.38	460	105.88	26.36
210	48.83	0.62	470	108.22	27.45
220	50.49	0.99	480	110.56	28.56
230	52.35	1.54	490	112.88	29.69
240	54.40	2.29	500	115.21	30.84
250	56.60	3.28	510	117.53	32.01
260	58.90	4.48	520	119.84	33.19
270	61.25	5.86	530	122.14	34.38
280	63.63	7.31	540	124.43	35.59
290	66.00	8.76	550	126.71	36.81
300	68.37	10.14	560	128.99	38.03
310	70.73	11.41	570	131.25	39.27
320	73.09	12.58	580	133.50	40.51
330	75.43	13.66	590	135.75	41.75
340	77.77	14.67	600	137.98	42.99

Table II Viscosity and Thermal Conductivity of Toluene at Low Densities ($\rho \rightarrow 0$) *(Continued)*

Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)	Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)
350	80.11	15.64	610	140.20	44.24
360	82.45	16.57	620	142.41	45.48
370	84.79	17.49	630	144.61	46.72
380	87.13	18.41	640	146.79	47.96
390	89.47	19.34	650	148.97	49.19
400	91.81	20.28	660	151.13	50.41
410	94.16	21.24	670	153.28	51.62
420	96.50	22.22	680	155.43	52.82
430	98.85	23.22	690	157.55	54.00
440	101.19	24.24	700	159.67	55.17
450	103.54	25.29			

Table III Viscosity and Thermal Conductivity of Ethylbenzene at Low Densities ($\rho \rightarrow 0$)

Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)	Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)
200	43.65	0.54	460	99.33	25.44
210	45.21	0.88	470	101.52	26.48
220	46.94	1.38	480	103.69	27.54
230	48.87	2.10	490	105.86	28.61
240	50.94	3.04	500	108.03	29.70
250	53.11	4.20	510	110.18	30.81
260	55.32	5.50	520	112.33	31.93
270	57.54	6.87	530	114.47	33.05
280	59.77	8.22	540	116.60	34.19
290	61.99	9.48	550	118.71	35.33
300	64.20	10.63	560	120.82	36.48
310	66.40	11.68	570	122.92	37.64
320	68.60	12.66	580	125.00	38.80
330	70.80	13.57	590	127.08	39.96
340	72.98	14.44	600	129.14	41.12
350	75.18	15.29	610	131.20	42.28
360	77.37	16.14	620	133.24	43.44
370	79.56	16.99	630	135.27	44.59
380	81.76	17.85	640	137.29	45.74
390	83.96	18.73	650	139.29	46.88
400	86.16	19.62	660	141.29	48.02
410	88.36	20.54	670	143.27	49.14
420	90.56	21.48	680	145.25	50.25
430	92.75	22.44	690	147.21	51.35
440	94.95	23.42	700	149.16	52.44
450	97.14	24.42			

Table IV Viscosity and Thermal Conductivity of *o*-Xylene at Low Densities ($\rho \rightarrow 0$)

Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1}K^{-1}$)	Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1}K^{-1}$)
200	44.00	0.51	460	99.54	26.89
210	45.55	0.84	470	101.74	27.96
220	47.20	1.32	480	103.92	29.04
230	49.05	2.01	490	106.11	30.14
240	51.07	2.95	500	108.28	31.26
250	53.21	4.13	510	110.45	32.39
260	55.40	5.51	520	112.61	33.54
270	57.63	7.00	530	114.76	34.70
280	59.86	8.51	540	116.91	35.88
290	62.09	9.94	550	119.04	37.06
300	64.31	11.27	560	121.16	38.26
310	66.52	12.47	570	123.28	39.46
320	68.73	13.56	580	125.38	40.67
330	70.93	14.58	590	127.47	41.88
340	73.13	15.53	600	129.55	43.11
350	75.32	16.44	610	131.63	44.33
360	77.52	17.34	620	133.69	45.56
370	79.72	18.23	630	135.73	46.79
380	81.92	19.12	640	137.77	48.02
390	84.12	20.03	650	139.80	49.24
400	86.33	20.95	660	141.81	50.47
410	88.53	21.89	670	143.82	51.70
420	90.74	22.85	680	145.81	52.92
430	92.94	23.83	690	147.79	54.13
440	95.14	24.83	700	149.76	55.34
450	97.34	25.85			

Table V Viscosity and Thermal Conductivity of Chlorobenzene at Low Densities ($\rho \rightarrow 0$) *(Continued)*

Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1}K^{-1}$)	Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1}K^{-1}$)
200	48.62	0.95	460	112.91	28.35
210	50.74	1.53	470	115.36	29.62
220	53.06	2.32	480	117.80	30.91
230	55.50	3.35	490	120.23	32.21
240	58.00	4.54	500	122.65	33.52
250	60.53	5.82	510	125.05	34.85
260	63.06	7.10	520	127.45	36.18
270	65.58	8.31	530	129.82	37.52

Table V Viscosity and Thermal Conductivity of Chlorobenzene at Low Densities ($\rho \rightarrow 0$) *(Continued)*

Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)	Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)
280	68.09	9.42	540	132.19	38.86
290	70.59	10.46	550	134.54	40.19
300	73.09	11.43	560	136.88	41.52
310	75.58	12.37	570	139.21	42.84
320	78.07	13.28	580	141.52	44.16
330	80.56	14.20	590	143.81	45.45
340	83.05	15.12	600	146.09	46.74
350	85.54	16.07	610	148.36	48.00
360	88.04	17.03	620	150.62	49.24
370	90.54	18.03	630	152.86	50.45
380	93.04	19.06	640	155.09	51.63
390	95.54	20.12	650	157.31	52.78
400	98.03	21.21	660	159.51	53.89
410	100.53	22.33	670	161.69	54.96
420	103.02	23.48	680	163.87	55.99
430	105.50	24.66	690	166.03	56.98
440	107.98	25.86	700	168.18	57.91
450	110.45	27.09			

Table VI Viscosity and Thermal Conductivity of Fluorobenzene at Low Densities ($\rho \rightarrow 0$)

Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)	Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1} K^{-1}$)
200	52.46	1.26	460	122.31	23.74
210	54.88	1.96	470	124.95	24.73
220	57.48	2.88	480	127.57	25.75
230	60.18	3.98	490	130.19	26.78
240	62.91	5.17	500	132.79	27.83
250	65.65	6.35	510	135.38	28.91
260	68.38	7.45	520	137.95	30.01
270	71.11	8.44	530	140.50	31.12
280	73.82	9.32	540	143.05	32.26
290	76.52	10.12	550	145.57	33.41
300	79.22	10.86	560	148.08	34.59
310	81.92	11.57	570	150.58	35.78
320	84.61	12.27	580	153.06	36.99
330	87.31	12.96	590	155.52	38.23
340	90.01	13.66	600	157.97	39.48
350	92.72	14.38	610	160.40	40.75

Table VI Viscosity and Thermal Conductivity of Fluorobenzene at Low Densities ($\rho \to 0$) *(Continued)*

Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1}K^{-1}$)	Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1}K^{-1}$)
360	95.43	15.11	620	162.82	42.04
370	98.13	15.87	630	165.23	43.35
380	100.84	16.65	640	167.61	44.68
390	103.55	17.45	650	169.99	46.03
400	106.25	18.28	660	172.35	47.40
410	108.94	19.13	670	174.69	48.78
420	111.63	20.00	680	177.02	50.19
430	114.32	20.90	690	179.34	51.62
440	116.99	21.83	700	181.64	53.07
450	119.65	22.77			

Table VII Viscosity and Thermal Conductivity of Carbon Dioxide at Low Densities ($\rho \to 0$) According to the Data [273]

Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1}K^{-1}$)	Temperature (K)	Viscosity ($\eta_0 \cdot 10^7$, Pa·s)	Thermal conductivity ($\lambda_0 \cdot 10^3$, $W \cdot m^{-1}K^{-1}$)
200	10.04	9.560	460	22.33	30.19
210	10.55	10.20	470	22.75	31.02
220	11.05	10.84	480	23.18	31.86
230	11.56	11.50	490	23.60	32.69
240	12.06	12.18	500	24.01	33.51
250	12.56	12.89	510	24.43	34.33
260	13.05	13.62	520	24.84	35.15
270	13.55	14.37	530	25.24	35.97
280	14.04	15.14	540	25.65	36.78
290	14.53	15.93	550	26.04	37.59
300	15.01	16.73	560	26.44	38.39
310	15.50	17.54	570	26.83	39.19
320	15.98	18.37	580	27.22	39.99
330	16.45	19.20	590	27.61	40.78
340	16.93	20.04	600	27.99	41.57
350	17.40	20.89	610	28.38	42.36
360	17.86	21.72	620	28.75	43.14
370	18.32	22.57	630	29.13	43.92
380	18.78	23.42	640	29.50	44.70
390	19.24	24.27	650	29.87	45.46
400	19.70	25.12	660	30.24	46.23
410	20.14	25.97	670	30.60	46.99
420	20.58	26.82	680	30.96	47.76
430	21.02	27.66	690	31.32	48.52
440	21.46	28.51	700	31.67	49.27
450	21.90	29.35			

Table VIII Viscosity of Benzene

ρ - density, kg/m^3; T – temperature, K; Viscosity · 10^7, Pa·s

ρ	T = 510	T = 520	T = 530	T = 540	T = 550	T = 560	T = 561
10	127.0	129.3	131.7	134.0	136.3	138.5	138.8
20	130.0	132.3	134.6	136.9	139.2	141.4	141.7
30	132.9	135.2	137.5	139.8	142.1	144.3	144.6
40	135.9	138.2	140.5	142.8	145.0	147.3	147.5
50	139.0	141.2	143.5	145.8	148.0	150.3	150.5
60	142.1	144.4	146.6	148.9	151.1	153.4	153.6
70		147.6	149.8	152.1	154.3	156.5	156.8
80		150.9	153.1	155.4	157.6	159.8	160.0
90				158.8	161.0	163.3	163.5
100					164.6	166.8	167.0
110					168.4	170.6	170.8
120					172.3	174.5	174.7
130					176.5	178.6	178.9
140					180.8	183.0	183.2
150						187.6	187.8
160						192.4	192.7
170						197.6	197.8
180						203.0	203.2
190							208.9
200							214.9
210							
220							
230							
240							
250							
260							
270							
280							
290							
300							
310							
320							
330							
340							
350							
360							
370							
380							
390							
400							
410							441.1
420							457.7
430						474.9	475.0
440						492.8	493.0
450						511.5	511.6
460						530.8	530.9
470						550.8	550.9
480						571.5	571.7
490						592.9	593.1
500						615.1	615.3

Table VIII Viscosity of Benzene (*Continued*)

ρ	T = 562	T = 563	T = 564	T = 565	T = 566	T = 567	T = 568
10	139.0	139.2	139.4	139.7	139.9	140.1	140.3
20	141.9	142.1	142.3	142.6	142.8	143.0	143.2
30	144.8	145.0	145.2	145.5	145.7	145.9	146.1
40	147.7	147.9	148.2	148.4	148.6	148.8	149.1
50	150.7	150.9	151.2	151.4	151.6	151.8	152.1
60	153.8	154.0	154.2	154.5	154.7	154.9	155.1
70	157.0	157.2	157.4	157.6	157.9	158.1	158.3
80	160.3	160.5	160.7	160.9	161.2	161.4	161.6
90	163.7	163.9	164.1	164.4	164.6	164.8	165.0
100	167.3	167.5	167.7	167.9	168.2	168.4	168.6
110	171.0	171.2	171.5	171.7	171.9	172.1	172.3
120	174.9	175.2	175.4	175.6	175.8	176.0	176.3
130	179.1	179.3	179.5	179.7	179.9	180.2	180.4
140	183.4	183.6	183.9	184.1	184.3	184.5	184.7
150	188.0	188.2	188.5	188.7	188.9	189.1	189.3
160	192.9	193.1	193.3	193.5	193.7	193.9	194.2
170	198.0	198.2	198.4	198.6	198.8	199.0	199.3
180	203.4	203.6	203.8	204.0	204.2	204.4	204.7
190	209.1	209.3	209.5	209.7	209.9	210.1	210.3
200	215.1	215.3	215.5	215.7	215.9	216.2	216.4
210	221.5	221.7	221.9	222.1	222.3	222.5	222.7
220		228.4	228.6	228.8	229.0	229.2	229.4
230		235.5	235.7	235.9	236.1	236.3	236.5
240		243.0	243.1	243.3	243.5	243.7	243.9
250		250.9	251.0	251.2	251.3	251.5	251.7
260		259.1	259.2	259.4	259.6	259.8	260.0
270		267.8	267.9	268.1	268.2	268.4	268.6
280		277.0	277.0	277.2	277.3	277.5	277.7
290		286.6	286.6	286.7	286.9	287.1	287.3
300		296.6	296.6	296.8	296.9	297.1	297.3
310		307.1	307.1	307.3	307.4	307.6	307.8
320		318.1	318.1	318.3	318.4	318.6	318.8
330		329.6	329.7	329.8	329.9	330.1	330.3
340		341.7	341.7	341.8	342.0	342.1	342.3
350		354.2	354.2	354.4	354.5	354.7	354.8
360		367.3	367.3	367.5	367.6	367.8	367.9
370		380.9	381.0	381.1	381.3	381.4	381.6
380		395.1	395.2	395.4	395.5	395.7	395.9
390	409.8	409.9	410.1	410.2	410.4	410.5	410.7
400	425.2	425.3	425.5	425.6	425.8	425.9	426.1
410	441.2	441.4	441.5	441.7	441.8	442.0	442.2
420	457.9	458.0	458.2	458.3	458.5	458.7	458.8
430	475.2	475.3	475.5	475.7	475.8	476.0	476.1
440	493.1	493.3	493.5	493.6	493.8	493.9	494.1
450	511.8	511.9	512.1	512.3	512.4	512.6	512.7
460	531.1	531.3	531.4	531.6	531.7	531.9	532.1
470	551.1	551.3	551.4	551.6	551.7	551.9	552.1
480	571.8	572.0	572.1	572.3	572.4	572.6	572.8
490	593.3	593.4	593.6	593.7	593.9	594.0	594.2
500	615.4	615.6	615.7	615.9	616.0	616.2	616.3

Table VIII Viscosity of benzene *(Continued)*

ρ	$T = 569$	$T = 570$	$T = 580$	$T = 590$	$T = 600$	$T = 700$
10	140.6	140.8	143.0	145.3	147.5	169.1
20	143.5	143.7	145.9	148.2	150.4	171.9
30	146.4	146.6	148.8	151.0	153.3	174.8
40	149.3	149.5	151.8	154.0	156.2	177.6
50	152.3	152.5	154.7	157.0	159.2	180.6
60	155.4	155.6	157.8	160.0	162.2	183.6
70	158.5	158.8	161.0	163.2	165.4	186.8
80	161.8	162.0	164.3	166.5	168.6	190.0
90	165.2	165.5	167.7	169.9	172.1	193.4
100	168.8	169.0	171.2	173.4	175.6	196.9
110	172.6	172.8	175.0	177.2	179.3	200.6
120	176.5	176.7	178.9	181.1	183.2	204.5
130	180.6	180.8	183.0	185.2	187.3	208.6
140	185.0	185.2	187.3	189.5	191.7	212.9
150	189.5	189.8	191.9	194.1	196.2	217.4
160	194.4	194.6	196.7	198.9	201.0	222.2
170	199.5	199.7	201.8	204.0	206.1	227.2
180	204.9	205.1	207.2	209.3	211.5	232.5
190	210.6	210.8	212.9	215.0	217.2	238.2
200	216.6	216.8	218.9	221.0	223.1	244.1
210	222.9	223.1	225.2	227.3	229.4	250.4
220	229.6	229.8	231.9	234.0	236.1	257.0
230	236.7	236.9	238.9	241.0	243.1	264.0
240	244.1	244.3	246.3	248.4	250.5	271.3
250	251.9	252.1	254.1	256.2	258.3	279.1
260	260.1	260.3	262.4	264.4	266.5	287.2
270	268.8	269.0	271.0	273.0	275.1	295.8
280	277.9	278.1	280.1	282.1	284.2	304.8
290	287.4	287.6	289.6	291.6	293.7	314.2
300	297.4	297.6	299.6	301.6	303.6	324.1
310	307.9	308.1	310.1	312.1	314.1	334.5
320	318.9	319.1	321.0	323.0	325.0	345.4
330	330.4	330.6	332.5	334.5	336.5	356.8
340	342.5	342.6	344.5	346.5	348.4	368.7
350	355.0	355.2	357.0	359.0	361.0	381.1
360	368.1	368.3	370.1	372.1	374.0	394.1
370	381.8	382.0	383.8	385.7	387.6	407.6
380	396.0	396.2	398.0	399.9	401.8	421.7
390	410.9	411.0	412.8	414.7	416.6	436.4
400	426.3	426.5	428.2	430.1	426.1	426.3
410	442.3	442.5	444.3	446.1	442.2	442.3
420	459.0	459.2	460.9	468.8	458.8	459.0
430	476.3	476.5	478.2	480.0	476.1	476.3
440	494.3	494.4	496.2	498.0	494.1	494.3
450	512.9	513.1	514.8	516.6	512.7	512.9
460	532.2	532.4	534.1	535.8	532.1	532.2
470	552.2	552.4	554.1	555.8	552.1	552.2
480	572.9	573.1	574.8	576.5	572.8	572.9
490	594.3	594.5	596.1	597.9	594.2	594.3
500	616.5	616.7	618.3	620.0	616.3	616.5

Table IX Viscosity of Toluene

ρ - density, kg/m^3; T – temperature, K; Viscosity · 10^7, Pa·s

ρ	T = 550	T = 560	T = 570	T = 580	T = 585	T = 590	T = 591
10	133.6	135.9	138.2	140.4	141.6	142.7	142.9
20	139.2	141.5	143.8	146.0	147.2	148.3	148.5
30	143.6	145.9	148.1	150.4	151.5	152.7	152.9
40	147.0	149.3	151.5	153.8	154.9	156.0	156.3
50	149.6	151.8	154.1	156.4	157.5	158.6	158.9
60	151.5	153.8	156.1	158.4	159.5	160.6	160.8
70	153.1	155.4	157.6	159.9	161.0	162.2	162.4
80	154.3	156.6	158.9	161.2	162.3	163.4	163.7
90		157.8	160.1	162.3	163.5	164.6	164.8
100			161.2	163.5	164.7	165.8	166.0
110			162.6	164.9	166.0	167.1	167.4
120			164.2	166.5	167.6	168.8	169.0
130			166.3	168.5	169.7	170.8	171.0
140				171.1	172.2	173.3	173.5
150				174.2	175.3	176.4	176.7
160					179.1	180.2	180.5
170					183.7	184.8	185.0
180					189.1	190.1	190.4
190							196.6
200							203.7
210							
220							
230							
240							
250							
260							
270							
280							
290							
300							
310							
320							
330							
340							
350							
360						419.7	
370						432.8	
380					448.9	447.1	
390					460.6	460.9	
400					473.1	473.7	473.9
410					484.6	485.4	485.5
420					494.7	495.6	495.8
430			500.9	502.3	503.2	504.2	504.4
440			507.1	508.8	509.8	510.8	511.0
450			511.2	513.2	514.2	515.2	515.4
460			513.0	515.0	516.0	517.1	517.3
470			511.9	514.0	515.1	516.2	516.4
480	503.7	505.6	507.7	509.9	511.0	512.1	512.3
490	495.9	497.9	500.1	502.3	503.4	504.5	504.7
500	484.3	486.5	488.6	490.9	473.0		

Table IX Viscosity of Toluene *(Continued)*

ρ	T = 592	T = 593	T = 594	T = 595	T = 596	T = 597	T = 598
10	143.1	143.4	143.6	143.8	144.0	144.3	144.5
20	148.7	148.9	149.2	149.4	149.6	149.8	150.1
30	153.1	153.3	153.6	153.8	154.0	154.2	154.5
40	156.5	156.7	156.9	157.2	157.4	157.6	157.8
50	159.1	159.3	159.5	159.8	160.0	160.2	160.4
60	161.1	161.3	161.5	161.7	162.0	162.2	162.4
70	162.6	162.8	163.1	163.3	163.5	163.7	164.0
80	163.9	164.1	164.3	164.6	164.8	165.0	165.2
90	165.0	165.3	165.5	165.7	166.0	166.2	166.4
100	166.2	166.5	166.7	166.9	167.1	167.4	167.6
110	167.6	167.8	168.0	168.3	168.5	168.7	168.9
120	169.2	169.4	169.7	169.9	170.1	170.3	170.6
130	171.2	171.5	171.7	171.9	172.1	172.4	172.6
140	173.8	174.0	174.2	174.4	174.7	174.9	175.1
150	176.9	177.1	177.3	177.6	177.8	178.0	178.2
160	180.7	180.9	181.1	181.4	181.6	181.8	182.0
170	185.2	185.5	185.7	185.9	186.1	186.3	186.6
180	190.6	190.8	191.0	191.2	191.4	191.7	191.9
190	196.8	197.0	197.2	197.4	197.6	197.8	198.1
200	203.9	204.1	204.3	204.5	204.7	204.9	205.1
210	211.9	212.1	212.3	212.5	212.7	212.9	213.1
220			221.2	221.4	221.5	221.7	221.9
230			231.0	231.2	231.3	231.5	231.7
240			241.9	241.9	242.1	242.2	242.4
250			253.6	253.6	253.6	253.8	253.9
260			266.3	266.0	266.0	266.1	266.3
270			280.0	279.2	279.2	279.3	279.4
280			294.3	293.1	293.1	293.1	293.2
290			309.1	307.7	307.6	307.6	307.7
300			324.2	322.8	322.6	322.7	322.7
310			339.4	338.3	338.2	338.2	338.2
320			354.8	354.1	354.0	354.0	354.1
330			370.4	370.1	370.0	370.1	370.1
340			386.2	386.1	386.1	386.1	386.2
350			402.0	402.0	402.1	402.1	402.3
360			417.6	417.7	417.8	417.9	418.0
370		432.8	432.9	433.0	433.1	433.2	433.4
380	447.3	447.4	447.5	447.7	447.8	448.0	448.1
390	461.1	461.3	461.4	461.6	461.8	461.9	462.1
400	474.0	474.2	474.4	474.5	474.7	474.9	474.1
410	485.7	485.9	486.1	486.3	486.5	486.7	486.9
420	496.0	496.2	496.4	496.6	496.8	497.0	497.2
430	504.6	504.8	505.0	505.2	505.4	505.6	505.8
440	511.2	511.4	511.6	511.8	512.1	512.3	512.5
450	515.6	515.8	516.1	516.3	516.5	516.7	516.9
460	517.5	517.7	518.0	518.2	518.4	518.6	518.8
470	516.6	516.8	517.0	517.2	517.5	517.7	517.9
480	512.5	512.7	512.9	513.2	513.4	513.6	513.8
490	504.9	505.2	505.4	505.6	505.8	506.1	506.3
500			494.0	494.2	494.5	494.7	494.9

Table IX Viscosity of Toluene *(Continued)*

ρ	T = 599	T = 600	T = 605	T = 610	T = 620	T = 630	T = 640
10	144.7	144.9	146.0	147.2	149.4	151.6	153.8
20	150.3	150.5	151.6	152.7	155.0	157.2	159.3
30	154.7	154.9	156.0	157.1	159.3	161.6	163.7
40	158.1	158.3	159.4	160.5	162.7	165.0	167.1
50	160.7	160.9	162.0	163.1	165.3	167.6	169.8
60	162.6	162.9	164.0	165.1	167.3	169.5	171.7
70	164.2	164.4	165.5	166.7	168.9	171.1	173.3
80	165.5	165.7	166.8	167.9	170.2	172.4	174.6
90	166.6	166.9	168.0	169.1	171.3	173.5	175.8
100	167.8	168.0	169.2	170.3	172.5	174.7	176.9
110	169.2	169.4	170.5	171.6	173.9	176.1	178.3
120	170.8	171.0	172.1	173.3	175.5	177.7	179.9
130	172.8	173.0	174.2	175.3	177.5	179.8	182.0
140	175.3	175.6	176.7	177.8	180.1	182.3	184.5
150	178.5	178.7	179.8	180.9	183.2	185.4	187.6
160	182.3	182.5	183.6	184.7	187.0	189.2	191.4
170	186.8	187.0	188.1	189.2	191.5	193.7	195.9
180	192.1	192.3	193.4	194.6	196.8	199.0	201.2
190	198.3	198.5	199.6	200.7	202.9	205.1	207.3
200	205.3	205.5	206.6	207.7	209.9	212.1	214.4
210	213.3	213.5	214.6	215.6	217.8	220.0	222.2
220	222.1	222.3	223.4	224.5	226.6	228.8	231.0
230	231.9	231.1	233.1	234.2	236.3	238.5	240.7
240	242.6	242.7	243.7	244.8	246.9	249.1	251.3
250	254.1	254.2	255.2	256.2	258.4	260.6	262.8
260	266.4	266.6	267.5	268.5	270.7	272.8	275.0
270	279.5	279.7	280.6	281.6	283.7	285.9	288.1
280	293.3	293.5	294.4	295.4	297.5	299.6	301.8
290	307.8	308.0	308.8	309.8	311.9	314.1	316.2
300	322.9	323.0	323.8	324.8	326.9	329.0	331.2
310	338.4	338.5	339.3	340.3	342.3	344.5	346.6
320	354.2	354.3	355.1	356.1	358.1	360.2	362.4
330	370.2	370.4	371.2	372.1	374.1	376.3	378.4
340	386.4	386.5	387.3	388.2	390.3	392.4	394.5
350	402.4	402.5	403.4	404.3	406.3	408.4	410.5
360	418.2	418.3	419.2	420.1	422.1	424.2	426.4
370	433.5	433.7	434.6	435.5	437.6	439.7	441.8
380	448.3	448.5	449.4	450.4	452.4	454.5	456.7
390	462.3	462.5	463.4	464.4	466.5	468.6	470.7
400	475.3	475.5	476.4	477.5	479.5	481.7	483.8
410	487.1	487.3	488.3	489.3	491.4	493.5	495.7
420	497.4	497.6	498.6	499.7	501.8	503.9	506.1
430	506.0	506.2	507.3	508.3	510.5	512.6	514.8
440	512.7	512.9	514.0	515.0	517.2	519.4	521.6
450	517.1	517.3	518.4	519.5	521.7	523.9	526.1
460	519.0	519.3	520.3	521.4	523.6	525.8	528.0
470	518.1	518.3	519.4	520.5	522.7	525.0	527.2
480	514.0	514.3	515.4	516.5	518.7	520.9	523.2
490	506.5	506.7	507.8	509.0	511.2	513.4	515.7
500	495.1	495.4	496.5	497.6	499.9	502.1	504.4

Table IX Viscosity of Toluene *(Continued)*

ρ	$T = 650$	$T = 660$	$T = 670$	$T = 680$	$T = 690$	$T = 700$
10	155.9	158.1	160.3	162.4	164.5	166.6
20	161.5	163.7	165.9	168.0	170.1	172.3
30	165.9	168.1	170.3	172.4	174.5	176.7
40	169.3	171.5	173.7	175.8	178.0	180.1
50	171.9	174.1	176.3	178.4	180.6	182.7
60	173.9	176.1	178.3	180.4	182.6	184.7
70	175.5	177.7	179.9	182.0	184.2	186.3
80	176.8	179.0	181.1	183.3	185.5	187.6
90	178.0	180.1	182.3	184.5	186.6	188.8
100	179.1	181.3	183.5	185.7	187.8	190.0
110	180.5	182.7	184.9	187.0	189.2	191.3
120	182.1	184.3	186.5	188.7	190.8	193.0
130	184.2	186.4	188.6	190.7	192.9	195.0
140	186.7	188.9	191.1	193.3	195.4	197.6
150	189.8	192.0	194.2	196.4	198.5	200.7
160	193.6	195.8	198.0	200.2	202.3	204.5
170	198.1	200.3	202.5	204.7	206.8	209.0
180	203.4	205.6	207.8	210.0	212.1	214.3
190	209.6	211.8	213.9	216.1	218.3	220.4
200	216.6	218.8	220.9	223.1	225.3	227.4
210	224.4	226.6	228.8	231.0	233.2	235.3
220	233.2	235.4	237.6	239.8	242.0	244.1
230	242.9	245.1	247.3	249.5	251.7	253.8
240	253.5	255.7	257.9	260.1	262.2	264.4
250	264.9	267.1	269.3	271.5	273.7	275.8
260	277.2	279.4	281.6	283.8	285.9	288.1
270	290.2	292.4	294.6	296.8	299.0	301.1
280	304.0	306.2	308.4	310.5	312.7	314.9
290	318.4	320.6	322.8	324.9	327.1	329.3
300	333.4	335.5	337.7	339.9	342.1	344.2
310	348.8	351.0	353.1	355.3	357.5	359.6
320	364.6	366.7	368.9	371.1	373.2	375.4
330	380.6	382.7	384.9	387.1	389.2	391.4
340	396.7	398.8	401.0	403.2	405.3	407.5
350	412.7	414.9	417.0	419.2	421.4	423.5
360	428.5	430.7	432.9	435.0	437.2	439.3
370	444.0	446.1	448.3	450.4	452.6	454.8
380	458.8	461.0	463.1	465.3	467.5	469.6
390	472.9	475.1	477.2	479.4	481.5	483.7
400	486.0	488.1	490.3	492.5	494.6	496.8
410	497.8	500.0	502.2	504.4	506.5	508.7
420	508.3	510.4	512.6	514.8	517.0	519.1
430	517.0	519.2	521.4	523.5	525.7	527.9
440	523.7	525.9	528.1	530.3	532.5	534.6
450	528.3	530.5	532.6	534.8	537.0	539.2
460	530.2	532.4	534.6	536.8	539.0	541.2
470	529.4	531.6	533.8	536.0	538.2	540.4
480	525.4	527.6	529.8	532.0	534.2	536.4
490	517.9	520.1	522.4	524.6	526.8	529.0
500	506.6	508.8	511.1	513.3	515.5	517.7

Table X Viscosity of Ethylbenzene

ρ - density, kg/m^3; T – temperature, K; Viscosity · 10^7, Pa·s

ρ	T = 550	T = 600	T = 610	T = 615	T = 616	T = 617	T = 618	T = 619
10	115.9	126.3	128.4	129.4	129.6	129.8	130.0	130.2
20	114.4	124.8	126.9	127.9	128.1	128.3	128.5	128.7
30	114.0	124.4	126.5	127.5	127.7	127.9	128.1	128.3
40	114.8	125.2	127.2	128.2	128.4	128.6	128.8	129.0
50	116.5	126.9	128.9	129.9	130.1	130.3	130.5	130.7
60		129.5	131.5	132.5	132.7	132.9	133.1	133.4
70		132.9	135.0	136.0	136.2	136.4	136.6	136.8
80		137.2	139.2	140.2	140.4	140.6	140.8	141.0
90		142.1	144.1	145.1	145.3	145.5	145.7	146.0
100		147.6	149.7	150.7	150.9	151.1	151.3	151.5
110		153.8	155.8	156.8	157.0	157.2	157.4	157.6
120		160.4	162.5	163.5	163.7	163.9	164.1	164.3
130		167.5	169.6	170.6	170.8	171.0	171.2	171.4
140			177.1	178.1	178.3	178.5	178.7	178.9
150			185.0	186.0	186.2	186.4	186.6	186.8
160					194.5	194.7	194.9	195.1
170					203.0	203.2	203.4	203.6
180					211.8	212.0	212.2	212.4
190							221.2	221.4
200							230.4	230.6
210							239.8	240.0
220							249.4	249.6
230							259.1	259.3
240							269.1	269.2
250							279.1	279.3
260							289.2	289.4
270							299.4	299.7
280							309.8	310.0
290							320.4	
300								
310								
320								
330								
340								
350								
360								
370								
380								
390							438.8	439.0
400							452.7	452.9
410			465.7	466.6	466.8	467.0	476.2	467.4
420			480.8	481.7	481.9	482.1	482.3	482.5
430			496.6	497.6	497.7	497.9	498.1	498.3
440			513.2	514.1	514.3	514.5	514.7	514.9
450			530.6	531.5	531.7	531.9	532.1	532.3
460			548.9	549.8	550.0	550.2	550.4	550.6
470			568.2	569.2	569.3	569.5	569.7	569.9
480		586.6	588.6	589.5	589.7	589.9	590.1	590.3
490		608.2	610.1	611.1	611.3	611.5	611.7	611.8
500		631.0	632.9	633.9	634.7	634.3	634.4	634.6

Table X Viscosity of Ethylbenzene *(Continued)*

ρ	$T = 620$	$T = 621$	$T = 622$	$T = 623$	$T = 624$	$T = 630$	$T = 635$
10	130.4	130.6	130.8	131.0	131.2	132.5	133.5
20	128.9	129.1	129.3	129.5	129.7	130.9	131.9
30	128.5	128.7	128.9	129.1	129.3	130.6	131.6
40	129.2	129.4	129.6	129.8	130.1	131.3	132.3
50	130.9	131.1	131.3	131.5	131.8	133.0	134.0
60	133.6	133.8	134.0	134.2	134.4	135.6	136.6
70	137.0	137.2	137.4	137.6	137.8	139.0	140.0
80	141.2	141.4	141.6	141.8	142.0	143.3	144.3
90	146.2	146.4	146.6	146.8	147.0	148.2	149.2
100	151.7	151.9	152.1	152.3	152.5	153.7	154.7
110	157.8	158.0	158.2	158.4	158.7	159.9	160.9
120	164.5	164.7	164.9	165.1	165.3	166.5	167.5
130	171.6	171.8	172.0	172.2	172.4	173.6	174.6
140	179.1	179.3	179.5	179.7	179.9	181.2	182.2
150	187.0	187.2	187.4	187.6	187.8	189.1	190.1
160	195.3	195.5	195.7	195.9	196.1	197.3	198.3
170	203.8	204.0	204.2	204.4	204.6	205.8	206.8
180	212.6	212.8	213.0	213.2	213.4	214.6	215.6
190	221.6	221.8	222.0	222.2	222.4	223.6	224.6
200	230.8	231.0	231.2	231.4	231.6	232.8	233.8
210	240.2	240.4	240.6	240.8	241.0	242.2	243.2
220	249.8	250.0	250.2	250.4	250.6	251.8	252.8
230	259.5	259.7	259.9	260.1	260.3	261.5	262.5
240	269.4	269.6	269.8	270.0	270.2	271.4	272.3
250	279.4	279.6	279.8	280.0	280.2	281.4	282.3
260	287.6	289.7	289.9	290.1	290.3	291.5	292.5
270	299.8	300.0	300.2	300.4	300.6	301.7	302.7
280	310.3	310.4	310.6	310.8	311.0	312.1	313.1
290	320.8	321.0	321.1	321.3	321.5	322.7	323.6
300	331.5	331.7	331.8	332.0	332.2	333.4	334.3
310	342.4	342.6	342.7	342.9	343.1	344.3	345.2
320	353.5	353.6	353.8	354.0	354.2	355.3	356.3
330	364.8	364.9	365.1	365.3	365.5	366.7	367.6
340	376.3	376.5	376.7	376.9	377.1	378.2	379.2
350	388.2	388.3	388.5	388.7	388.9	390.1	391.0
360	400.3	400.5	400.7	400.9	401.1	402.2	403.2
370	412.9	413.0	413.2	413.4	413.6	414.8	415.8
380	425.8	426.0	426.2	426.4	426.6	427.7	428.7
390	439.2	439.4	439.6	439.8	440.0	441.1	442.1
400	453.1	453.3	453.5	453.7	453.9	455.1	456.0
410	467.6	467.8	468.0	468.2	468.4	469.5	470.5
420	482.7	482.9	483.1	483.3	483.5	484.7	485.4
430	498.5	498.7	498.9	499.1	499.3	500.5	501.4
440	515.1	515.3	515.5	515.7	515.9	517.0	518.0
450	532.5	532.7	532.9	533.1	533.3	534.4	535.4
460	550.8	551.0	551.2	551.4	551.6	552.8	553.7
470	570.1	570.3	570.5	570.7	570.9	572.1	573.0
480	590.5	590.7	590.9	591.1	591.3	592.4	593.4
490	612.0	612.2	612.4	612.6	612.8	614.0	614.9
500	634.8	635.0	635.2	635.4	635.6	636.8	637.7

Table X Viscosity of Ethylbenzene *(Continued)*

ρ	T = 640	T = 650	T = 660	T = 670	T = 680	T = 690	T = 700
10	134.5	136.5	138.5	140.5	142.4	144.4	146.3
20	133.8	134.9	136.9	138.9	140.9	142.9	144.8
30	132.6	134.6	136.6	138.6	140.5	142.5	144.4
40	133.3	135.3	137.3	139.3	141.2	143.2	145.1
50	135.0	137.0	139.0	141.0	142.9	144.9	146.8
60	137.6	139.6	141.6	143.6	145.5	147.5	149.4
70	141.0	143.0	145.0	147.0	149.0	150.9	152.9
80	145.3	147.3	149.3	151.2	153.2	155.2	157.1
90	150.2	152.2	154.2	156.2	158.1	160.1	162.0
100	155.7	157.7	159.7	161.7	163.7	165.6	167.6
110	161.9	163.9	165.9	167.8	169.8	171.8	173.7
120	168.5	170.5	172.5	174.5	176.4	178.4	180.3
130	175.6	177.6	179.6	181.6	183.6	185.5	187.5
140	183.2	185.2	187.1	189.1	191.1	193.0	195.0
150	191.1	193.0	195.0	197.0	199.0	200.9	202.9
160	199.3	201.3	203.3	205.2	207.2	209.1	211.1
170	207.8	209.1	211.8	213.7	215.7	217.7	219.6
180	216.6	218.6	220.6	222.5	224.5	226.4	228.4
190	225.6	227.6	229.6	231.5	233.5	235.4	237.4
200	234.8	236.8	238.8	240.7	242.7	244.6	246.6
210	244.2	246.2	248.2	250.1	252.1	254.0	256.0
220	253.8	255.8	257.7	259.7	261.6	263.6	265.5
230	263.5	265.5	267.4	269.4	271.3	273.3	275.2
240	273.3	275.3	277.3	279.2	281.2	283.1	285.1
250	283.3	285.3	287.3	289.2	291.2	293.1	295.0
260	293.4	295.4	297.3	299.3	301.3	303.2	305.1
270	303.7	305.7	307.6	309.6	311.5	313.5	315.4
280	314.1	316.0	318.0	320.0	321.9	323.8	325.8
290	324.6	326.6	328.5	330.5	332.4	334.4	336.3
300	335.3	337.3	339.2	341.2	343.1	345.1	347.0
310	346.2	348.2	250.1	352.1	354.0	355.9	357.9
320	357.3	359.2	361.2	363.1	365.1	367.0	368.9
330	368.6	370.6	372.5	374.4	376.4	378.3	380.2
340	380.2	382.1	384.1	386.0	387.9	389.9	391.8
350	392.0	394.0	395.9	397.8	399.8	401.7	403.6
360	404.2	406.1	408.1	410.0	411.9	413.9	415.8
370	416.7	418.7	420.6	422.5	424.5	426.4	428.3
380	429.7	431.6	433.6	435.5	437.4	439.3	441.2
390	443.1	445.0	447.0	448.9	450.8	452.7	454.6
400	457.0	458.9	460.9	462.8	464.7	466.6	468.6
410	471.5	473.4	475.4	477.3	479.2	481.1	483.0
420	486.6	488.5	490.5	492.4	494.3	496.2	498.1
430	502.4	504.3	506.3	508.2	510.1	512.0	513.9
440	519.0	520.9	522.8	524.8	526.7	528.6	530.5
450	536.4	538.3	540.2	545.5	544.1	546.0	547.9
460	554.7	556.6	558.5	560.5	562.4	564.3	566.2
470	574.0	575.9	577.8	579.7	581.7	583.6	585.4
480	594.4	596.3	598.2	600.1	602.0	603.9	605.8
490	615.9	617.8	619.7	621.6	623.5	625.4	627.3
500	638.7	640.6	642.5	644.4	646.3	648.2	650.1

Table XI Viscosity of *o*-Xylene

ρ - density, kg/m^3; T – temperature, K; Viscosity · 10^7, Pa·s

ρ	T = 550	T = 600	T = 610	T = 620	T = 625	T = 626	T = 627	T = 628
10	115.9	126.1	128.1	130.1	131.1	131.3	131.5	131.7
20	113.0	123.1	125.1	127.0	128.0	128.2	128.4	128.6
30	111.2	121.2	123.2	125.2	126.2	126.4	126.6	126.8
40		120.5	122.5	124.5	125.5	125.7	125.9	126.1
50		121.0	123.0	124.9	125.9	126.1	126.3	126.5
60		122.5	124.4	126.4	127.4	127.6	127.8	128.0
70		124.9	126.9	128.9	129.8	130.0	130.2	130.4
80		128.4	130.3	132.2	133.2	133.4	133.6	133.8
90		132.7	134.6	136.5	137.5	136.7	137.9	138.1
100			139.7	141.6	142.6	142.8	143.0	143.2
110				147.5	148.5	148.7	148.8	149.0
120				154.1	155.1	155.3	155.4	155.6
130				161.4	162.4	162.6	162.7	162.9
140				169.4	170.3	170.5	170.7	170.9
150				177.9	178.8	179.0	179.2	179.4
160				187.1	188.0	188.1	188.3	188.5
170								198.1
180								208.3
190								218.9
200								230.0
210								241.6
220								253.9
230								265.7
240								278.1
250								290.9
260								304.1
270								317.6
280								331.4
290								
300								
310								
320								390.1
330								405.6
340								421.6
350								438.4
360								454.5
370								471.0
380								488.1
390								505.7
400								523.8
410								542.5
420				561.0	561.4	561.5	561.6	561.7
430				580.8	581.2	581.3	581.4	581.5
440				601.3	601.7	601.8	601.9	602.0
450				622.4	622.8	622.9	623.0	623.1
460				644.2	644.7	644.8	644.9	644.9
470				666.9	667.3	667.4	667.5	667.6
480				690.3	690.8	690.8	690.9	691.0
490				714.7	715.1	715.2	715.2	715.3
500				740.0	740.3	740.4	740.5	740.6

Table XI Viscosity of *o*-Xylene *(Continued)*

ρ	T = 629	T = 630	T = 631	T = 632	T = 633	T = 634	T = 635
10	131.9	132.1	132.3	132.5	132.7	132.9	133.1
20	128.8	129.0	129.2	129.4	129.6	129.8	130.0
30	127.0	127.2	127.4	127.6	127.8	128.0	128.2
40	126.3	126.5	126.7	126.9	127.1	127.3	127.5
50	126.7	126.9	127.1	127.3	127.5	127.7	127.9
60	128.2	128.4	128.6	128.7	128.9	129.1	129.3
70	130.6	130.8	131.0	131.2	131.4	131.6	131.8
80	134.0	134.2	134.4	134.6	134.8	135.0	135.2
90	138.3	138.5	138.7	138.8	139.0	139.2	139.4
100	143.4	143.5	143.7	143.9	144.1	144.3	144.5
110	149.2	149.4	149.6	149.8	150.0	150.2	150.4
120	155.8	156.0	156.2	156.4	156.6	156.8	157.0
130	163.1	163.3	163.5	163.7	163.9	164.1	164.2
140	171.0	171.2	171.4	171.6	171.8	172.0	172.2
150	179.6	179.8	179.9	180.1	180.3	180.5	180.7
160	188.7	188.9	189.0	189.2	189.4	189.6	189.8
170	198.3	198.5	198.7	198.8	199.0	199.2	199.4
180	208.4	208.6	208.8	209.0	209.1	209.3	209.5
190	219.1	219.2	219.4	219.5	219.7	219.9	220.1
200	230.1	230.3	230.4	230.6	230.8	230.9	231.1
210	241.7	241.8	241.9	242.1	242.2	242.4	242.5
220	253.7	253.7	253.8	253.9	254.1	254.2	254.3
230	266.3	266.2	266.2	266.2	266.3	266.4	266.6
240	278.4	278.9	279.0	278.9	278.9	279.0	279.1
250	291.2	291.5	292.8	291.9	291.9	291.9	292.0
260	304.3	304.7	305.2	305.2	305.1	305.1	305.2
270	317.9	318.2	318.7	318.9	318.7	318.7	318.7
280	331.7	332.0	332.5	332.8	332.5	332.5	332.6
290			346.7	347.0	346.7	346.7	346.7
300			361.2	361.5	361.2	361.1	361.2
310			376.1	376.2	375.9	375.9	375.9
320	390.4	390.8	391.7	391.2	391.0	391.0	391.0
330	406.0	406.5	406.9	406.5	406.4	406.4	406.4
340	422.1	422.9	422.2	422.1	422.0	422.1	422.1
350	438.5	438.2	438.1	438.0	438.1	438.1	438.2
360	454.4	454.4	454.4	454.4	454.5	454.5	454.6
370	471.0	471.1	471.1	471.2	471.3	471.3	471.4
380	488.2	488.2	488.3	488.4	488.5	488.6	488.7
390	505.8	505.9	506.0	506.0	506.1	506.2	506.3
400	523.9	524.0	524.1	524.2	524.3	524.4	524.5
410	542.6	542.7	542.8	542.9	543.0	543.1	543.2
420	561.8	561.9	562.0	562.1	562.2	562.3	562.4
430	581.6	581.7	581.8	581.9	582.0	582.1	582.2
440	602.1	602.2	602.3	602.4	602.5	602.6	602.7
450	623.2	623.3	623.4	623.5	623.6	623.7	623.8
460	645.0	645.1	645.2	645.3	645.4	645.5	645.6
470	667.7	667.7	667.8	667.9	668.0	668.1	668.2
480	691.1	691.2	691.3	691.4	691.5	691.5	691.6
490	715.4	715.5	715.6	715.7	715.8	715.8	715.9
500	740.7	740.7	740.8	740.9	741.0	741.1	741.2

Table XI Viscosity of *o*-Xylene *(Continued)*

ρ	$T = 640$	$T = 650$	$T = 660$	$T = 670$	$T = 680$	$T = 690$	$T = 700$
10	134.1	136.1	138.0	140.0	142.0	143.9	145.8
20	131.0	133.0	135.0	136.9	138.9	140.8	142.7
30	129.2	131.1	133.1	135.0	137.0	138.9	140.8
40	128.5	130.4	132.4	134.3	136.3	138.2	140.1
50	128.9	130.8	132.8	134.7	136.6	138.6	140.5
60	130.3	132.3	134.2	136.1	138.1	140.0	141.9
70	132.8	134.7	136.6	138.6	140.5	142.4	144.3
80	136.1	138.1	140.0	141.9	143.8	145.7	147.7
90	140.4	142.3	144.2	146.2	148.1	150.0	151.9
100	145.5	147.4	149.3	151.2	153.1	155.0	156.9
110	151.3	153.2	155.1	157.0	158.9	160.8	162.7
120	157.9	159.8	161.7	163.6	165.5	167.4	169.2
130	165.2	167.1	168.9	170.8	172.7	174.6	176.4
140	173.1	175.0	176.8	178.7	180.6	182.4	184.3
150	181.6	183.4	185.3	187.2	189.0	190.9	192.7
160	190.7	192.5	194.3	196.2	198.0	199.9	201.6
170	200.3	202.1	203.9	205.7	207.5	209.4	211.2
180	210.4	212.1	213.9	215.7	217.6	219.4	221.2
190	220.9	222.7	224.4	226.2	228.0	229.8	231.6
200	231.9	233.6	235.4	237.1	238.9	240.7	242.5
210	243.3	245.0	246.7	248.5	250.2	252.0	253.8
220	255.1	256.7	258.5	260.2	261.9	263.7	265.5
230	267.3	268.9	270.5	272.3	274.0	275.7	277.5
240	279.8	281.3	283.0	284.7	286.4	288.1	289.9
250	292.6	294.1	295.8	297.4	299.1	300.9	302.6
260	305.8	307.3	308.9	310.5	312.2	313.9	315.6
270	319.3	320.7	322.3	323.9	325.6	327.3	329.0
280	333.1	334.5	336.1	337.7	339.3	341.0	342.6
290	347.2	348.6	350.1	351.7	353.3	355.0	356.6
300	361.6	363.0	364.5	366.0	367.6	369.3	370.9
310	376.4	377.7	379.2	380.7	382.3	383.9	385.5
320	391.5	392.7	394.2	395.7	397.2	398.8	400.4
330	406.9	408.1	409.5	411.0	412.5	414.1	415.7
340	422.6	423.8	425.2	426.7	428.2	429.7	431.3
350	438.7	439.9	441.3	442.7	444.2	445.7	447.3
360	455.1	456.3	457.7	459.1	460.6	462.1	463.6
370	471.9	473.1	474.5	475.9	477.3	478.8	480.3
380	489.2	490.4	491.7	493.1	494.5	496.0	497.5
390	506.9	508.1	509.4	510.7	512.1	513.6	515.1
400	525.1	526.2	527.5	528.9	530.3	531.7	533.2
410	543.7	544.9	546.2	547.5	548.9	550.3	551.7
420	563.0	564.1	565.4	566.7	568.0	569.4	570.8
430	582.8	583.9	585.1	586.4	587.7	589.1	590.5
440	603.2	604.3	605.5	606.8	608.1	609.4	610.8
450	624.3	625.4	626.6	627.8	629.1	630.4	631.8
460	646.1	647.2	648.4	649.6	650.8	652.1	653.5
470	668.7	669.8	670.9	672.1	673.3	674.6	675.9
480	692.1	693.1	694.2	695.4	696.6	697.8	699.1
490	716.4	717.4	718.4	719.6	720.7	722.0	723.3
500	741.6	742.6	743.6	744.7	745.8	747.0	748.3

Table XII Viscosity of Chlorobenzene

ρ - density, kg/m^3; T – temperature, K; Viscosity · 10^7, Pa·s

ρ	T = 550	T = 560	T = 570	T = 580	T = 590	T = 600	T = 633
10	138.2	140.5	142.8	145.1	147.4	149.7	157.0
20	141.3	143.5	145.8	148.1	150.4	152.6	157.9
30	144.0	146.3	148.5	150.8	153.0	155.3	162.6
40	146.5	148.7	151.0	153.3	155.5	157.7	165.0
50	148.8	151.1	153.3	155.6	157.8	160.0	167.3
60	151.0	153.3	155.5	157.8	160.0	162.2	169.4
70			157.6	159.9	162.1	164.3	171.5
80			159.8	162.0	164.2	166.4	173.6
90					166.3	168.5	175.6
100						170.6	177.8
110						172.9	180.0
120						175.2	182.3
130							184.8
140							187.5
150							190.4
160							193.5
170							197.0
180							200.7
190							204.7
200							209.0
210							213.7
220							218.8
230							224.2
240							230.0
250							236.2
260							242.8
270							249.7
280							257.1
290							264.9
300							273.1
310							281.7
320							290.7
330							300.1
340							309.9
350							320.1
360							330.6
370							341.5
380							352.7
390							364.2
400							376.0
410							388.0
420							400.2
430							412.6
440							425.2
450							437.9
460							450.9
470							463.9
480							477.0
490							490.1
500							503.3

Table XII Viscosity of Chlorobenzene *(Continued)*

ρ	T = 634	T = 635	T = 636	T = 637	T = 638	T = 639	T = 640
10	157.2	157.5	157.7	157.9	158.1	158.3	158.6
20	160.2	160.4	160.6	160.8	161.0	161.3	161.5
30	162.8	163.0	163.2	163.5	163.7	163.9	164.1
40	165.2	165.4	165.7	165.9	166.1	166.3	166.5
50	167.5	167.7	167.9	168.1	168.4	168.6	168.8
60	169.6	169.8	170.1	170.3	170.5	170.7	170.9
70	171.7	171.9	172.1	172.4	172.6	172.8	173.0
80	173.8	174.0	174.2	174.4	174.6	174.9	175.1
90	175.8	176.1	176.3	176.5	176.7	176.9	177.1
100	178.0	178.2	178.4	178.6	178.8	179.0	179.3
110	180.2	180.4	180.6	180.8	181.0	181.3	181.5
120	182.5	182.7	183.0	183.2	183.4	183.6	183.8
130	185.0	185.2	185.5	185.7	185.9	186.1	186.3
140	187.7	187.9	188.1	188.3	188.6	188.8	189.0
150	190.6	190.8	191.0	191.2	191.5	191.7	191.9
160	193.8	194.0	194.2	194.4	194.6	194.8	195.0
170	197.2	197.4	197.6	197.8	198.0	198.2	198.4
180	200.9	201.1	201.3	201.5	201.7	201.9	202.1
190	204.9	205.1	205.3	205.5	205.7	205.9	206.1
200	209.2	209.4	209.6	209.8	210.0	210.2	210.4
210	213.9	214.1	214.3	214.5	214.7	214.9	215.1
220	219.0	219.1	219.3	219.5	219.7	219.9	220.1
230	224.4	224.5	224.7	224.9	225.1	225.3	225.5
240	230.2	230.3	230.5	230.7	230.8	231.0	231.2
250	236.3	236.5	236.6	236.8	237.0	237.2	237.3
260	242.9	243.0	243.2	243.3	243.5	243.7	243.9
270	249.8	250.0	250.1	250.3	250.4	250.6	250.8
280	257.2	257.3	257.4	257.6	256.5	257.9	258.1
290	264.9	265.1	265.2	265.3	265.5	265.6	265.8
300	273.1	273.2	273.3	273.5	273.6	273.8	273.9
310	281.7	281.8	281.9	282.0	282.2	282.3	282.5
320	290.7	290.7	290.9	291.0	291.1	291.3	291.4
330	300.1	300.1	300.2	300.3	300.5	300.6	300.8
340	309.8	309.9	310.0	310.1	310.2	310.3	310.5
350	320.0	320.0	320.1	320.2	320.3	320.4	320.6
360	330.5	330.5	330.6	330.7	330.8	330.9	331.0
370	341.3	341.3	341.4	341.5	341.6	341.7	341.9
380	352.5	352.5	352.6	352.6	352.8	352.9	353.0
390	364.0	364.0	364.0	364.1	364.2	364.4	364.5
400	375.8	375.8	375.8	375.9	376.0	376.1	376.3
410	387.8	387.8	387.9	388.0	388.1	388.2	388.3
420	400.1	400.1	400.2	400.3	400.4	400.5	400.6
430	412.6	412.6	412.7	412.8	412.9	413.0	413.1
440	425.2	425.3	425.4	425.5	425.6	425.7	425.8
450	438.0	438.1	438.2	438.3	438.4	438.5	438.7
460	450.9	451.0	451.2	451.3	451.4	451.5	451.7
470	464.0	464.1	464.2	464.3	464.5	464.6	464.7
480	477.1	477.2	477.4	477.5	477.6	477.8	477.9
490	490.3	490.4	490.5	490.7	490.8	490.9	491.1
500	503.4	503.6	503.7	503.9	504.0	504.1	504.3

Table XII Viscosity of Chlorobenzene *(Continued)*

ρ	$T = 650$	$T = 660$	$T = 670$	$T = 680$	$T = 690$	$T = 700$
10	160.8	162.9	165.1	167.3	169.4	171.6
20	163.7	165.8	168.0	170.2	172.3	174.4
30	166.3	168.5	170.6	172.8	174.9	177.0
40	168.7	170.9	173.0	175.2	177.3	179.4
50	171.0	173.1	175.3	177.4	179.5	181.6
60	173.1	175.2	177.4	179.5	181.6	183.7
70	175.2	177.3	179.4	181.6	183.7	185.8
80	177.2	179.4	181.5	183.6	185.7	187.8
90	179.3	181.4	183.5	185.7	187.8	189.8
100	181.4	183.5	185.6	187.8	189.9	191.9
110	183.6	185.7	187.8	189.9	192.0	194.1
120	185.9	188.1	190.2	192.3	194.3	196.4
130	188.4	190.5	192.6	194.7	196.8	198.9
140	191.1	193.2	195.3	197.4	199.5	201.5
150	194.0	196.1	198.2	200.2	202.3	204.4
160	197.1	199.2	201.3	203.3	205.4	207.5
170	200.5	202.6	204.6	206.7	208.8	210.8
180	204.2	206.2	208.3	210.3	212.4	214.4
190	208.1	210.2	212.2	214.3	216.3	218.4
200	212.4	214.5	216.5	218.5	220.6	222.6
210	217.1	219.1	221.1	223.1	225.2	227.2
220	222.0	224.1	226.1	228.1	230.1	232.1
230	227.4	229.4	231.4	233.4	235.4	237.4
240	233.1	235.1	237.1	239.1	241.1	243.1
250	239.2	241.2	243.2	245.1	247.1	249.1
260	245.7	247.7	249.6	251.6	253.6	255.6
270	252.6	254.5	256.5	258.5	260.4	262.4
280	259.9	261.8	263.8	265.7	267.7	269.7
290	267.6	269.5	271.4	273.4	275.3	277.3
300	275.7	277.6	279.5	281.5	283.4	285.4
310	284.2	286.1	288.0	289.0	291.9	293.8
320	293.2	295.0	296.9	298.8	300.7	302.6
330	302.5	304.3	306.2	308.1	310.0	311.9
340	312.2	314.0	315.8	317.7	319.6	321.5
350	322.2	324.0	325.8	327.7	329.6	331.5
360	332.7	334.4	336.2	338.1	340.0	341.8
370	343.4	345.2	347.0	348.8	350.7	352.5
380	354.6	356.3	358.1	359.9	361.7	363.6
390	366.0	367.7	369.5	371.3	373.1	374.9
400	377.8	379.4	381.2	382.9	384.7	386.6
410	389.8	391.4	393.1	394.9	396.7	398.5
420	402.0	403.7	405.4	407.1	408.9	410.7
430	414.5	416.1	417.8	419.6	421.3	423.1
440	427.2	428.8	430.5	432.2	433.9	435.7
450	440.1	441.7	443.3	445.0	446.7	448.5
460	453.1	454.7	456.3	458.0	459.7	461.4
470	466.2	467.7	469.4	471.0	472.7	474.4
480	479.3	480.9	482.5	484.1	485.8	487.5
490	492.5	494.1	495.7	497.3	499.0	500.7
500	505.7	507.3	508.9	510.5	512.1	513.8

Table XIII Viscosity of Fluorobenzene

ρ - density, kg/m^3; T – temperature, K; Viscosity · 10^7, Pa·s

ρ	T = 500	T = 510	T = 520	T = 530	T = 540	T = 545	T = 550
10	135.0	137.6	140.1	142.6	145.1	146.4	147.6
20	136.9	139.5	142.0	144.5	147.0	148.2	149.5
30	138.9	141.4	144.0	146.4	148.9	150.2	151.4
40	141.0	143.5	146.0	148.5	151.0	152.2	153.4
50	143.3	145.7	148.2	150.7	153.2	154.4	155.6
60	145.6	148.1	150.6	153.0	155.5	156.7	157.9
70		150.6	153.0	155.5	157.9	159.1	160.4
80		153.2	155.7	158.1	160.5	161.7	162.9
90		156.0	158.4	160.8	163.2	164.5	165.7
100		158.9	161.3	163.7	166.1	167.3	168.5
110				166.8	169.2	170.4	171.6
120					172.4	173.5	174.7
130					175.7	176.9	178.1
140					179.2	180.4	181.5
150					182.9	184.1	185.2
160					186.8	187.9	189.0
170						191.9	193.0
180							
190							
200							
210							
220							
230							
240							
250							
260							
270							
280							
290							
300							
310							
320							
330							
340							
350							
360							
370							
380							
390							
400							
410							
420							
430							
440							
450							
460							
470							
480							
490							
500							

Table XIII Viscosity of Fluorobenzene *(Continued)*

ρ	T = 555	T = 556	T = 557	T = 558	T = 559	T = 560
10	148.9	149.1	149.4	149.6	149.9	150.1
20	150.7	151.0	151.2	151.4	151.7	151.9
30	152.6	152.9	153.1	153.4	153.6	153.9
40	154.7	154.9	155.2	155.4	155.6	155.9
50	156.8	157.1	157.3	157.6	157.8	158.0
60	159.1	159.4	159.6	159.9	160.1	160.3
70	161.6	161.8	162.0	162.3	162.5	162.8
80	164.1	164.4	164.6	164.9	165.1	165.3
90	166.9	167.1	167.3	167.6	167.8	168.1
100	169.7	170.0	170.2	170.4	170.7	170.9
110	172.7	173.0	173.2	173.5	173.7	173.9
120	175.9	176.1	176.4	176.6	176.9	177.1
130	179.2	179.5	179.7	179.9	180.2	180.4
140	182.7	182.9	183.2	183.4	183.6	183.9
150	186.4	186.6	186.8	187.1	187.3	187.5
160	190.2	190.4	190.6	190.9	191.1	191.3
170	194.2	194.4	194.6	194.9	195.1	195.3
180	198.3	198.6	198.8	199.0	199.2	199.5
190	202.7	202.9	203.2	203.4	203.6	203.8
200	207.3	207.5	207.7	207.9	208.1	208.4
210	212.0	212.3	212.5	212.7	212.9	213.1
220	217.0	217.2	217.5	217.7	217.9	218.1
230	222.3	222.5	222.7	222.9	223.1	223.3
240	227.8	228.0	228.2	228.4	228.6	228.8
250	233.5	233.7	233.9	234.1	234.3	234.5
260	239.6	239.8	240.0	240.1	240.3	240.5
270					246.6	246.8
280					253.3	253.4
290						260.4
300						
310						
320						
330						
340						
350						
360						
370						
380						
390						
400						361.6
410						373.1
420						385.3
430						398.1
440						411.6
450						425.8
460						440.8
470					456.5	456.6
480	476.1	474.1	473.6	473.5	473.4	473.4
490	490.0	490.3	490.8	491.4	492.6	492.6
500	507.3	507.5	507.7	508.0	508.3	508.6

Table XIII Viscosity of Fluorobenzene *(Continued)*

ρ	$T = 561$	$T = 562$	$T = 563$	$T = 564$	$T = 565$	$T = 570$
10	150.4	150.6	150.9	151.1	151.4	152.6
20	152.2	152.4	152.7	152.9	153.2	154.4
30	154.1	154.3	154.6	154.8	155.1	156.3
40	156.1	156.4	156.6	156.9	157.1	158.3
50	158.3	158.5	158.8	159.0	159.3	160.5
60	160.6	160.8	161.1	161.3	161.5	162.8
70	163.0	163.3	163.5	163.7	164.0	165.2
80	165.6	165.8	166.1	166.3	166.5	167.7
90	168.3	168.5	168.8	169.0	169.3	170.4
100	171.2	171.4	171.6	171.9	172.1	173.3
110	174.2	174.4	174.6	174.9	175.1	176.3
120	177.3	177.6	177.8	178.0	178.3	179.4
130	180.6	180.9	181.1	181.3	181.6	182.7
140	184.1	184.3	184.6	184.8	185.0	186.2
150	187.8	188.0	188.2	188.4	188.7	189.8
160	191.6	191.8	192.0	192.2	192.5	193.6
170	195.5	195.8	196.0	196.2	196.4	197.6
180	199.7	199.9	200.1	200.4	200.6	201.7
190	204.0	204.3	204.5	204.7	204.9	206.1
200	208.6	208.8	209.0	209.3	209.5	210.6
210	213.3	213.6	213.8	214.0	214.2	215.3
220	218.3	218.5	218.8	219.0	219.2	220.3
230	223.5	223.7	224.0	224.2	224.4	225.5
240	229.0	229.2	229.4	229.6	229.8	230.9
250	234.7	234.9	235.1	235.3	235.5	236.6
260	240.7	240.9	241.1	241.3	241.5	242.5
270	247.0	247.2	247.4	247.6	247.8	248.8
280	253.6	253.8	254.0	254.1	254.3	255.3
290	260.5	260.7	260.9	261.0	261.2	262.1
300	267.8	267.9	268.1	268.2	268.4	269.3
310	275.5	275.5	275.6	275.8	275.9	276.8
320	283.5	283.5	283.5	283.6	283.8	284.6
330	291.8	291.8	291.8	291.9	292.0	292.8
340	300.5	300.4	300.4	300.5	300.6	301.3
350	309.6	309.4	309.4	309.5	309.6	310.3
360	319.1	318.9	318.9	319.0	319.0	319.7
370	329.0	328.8	328.8	328.8	328.9	329.6
380	339.3	339.2	339.1	339.2	339.3	339.9
390	350.1	350.0	350.0	350.0	350.1	350.7
400	361.3	361.3	361.3	361.3	361.4	362.0
410	373.0	373.0	373.1	373.2	373.2	373.9
420	385.3	385.3	385.4	385.5	385.6	386.3
430	398.2	398.3	398.4	398.5	398.6	399.2
440	411.7	411.8	411.9	412.0	412.1	412.8
450	425.9	426.0	426.1	426.3	426.4	427.0
460	440.9	441.0	441.1	441.2	441.3	442.0
470	456.7	456.7	456.8	456.9	457.0	457.7
480	473.4	473.4	473.5	473.6	473.6	474.2
490	491.8	491.5	491.4	491.3	491.3	491.6
500	508.9	509.3	509.8	510.4	511.9	510.2

Table XIII Viscosity of Fluorobenzene *(Continued)*

ρ	$T = 580$	$T = 590$	$T = 600$	$T = 650$	$T = 700$
10	155.0	157.5	159.9	171.8	183.4
20	156.8	159.3	161.7	173.6	185.1
30	158.7	161.2	163.6	175.4	186.9
40	160.7	163.2	165.6	177.4	188.8
50	162.9	165.3	167.7	179.4	190.9
60	165.2	167.6	169.9	181.7	193.4
70	167.6	170.0	172.3	184.0	195.5
80	170.1	172.5	174.9	186.5	197.9
90	172.8	175.2	177.6	189.2	200.6
100	175.7	178.0	180.4	192.0	203.3
110	178.7	181.0	183.4	194.9	206.2
120	181.8	184.1	186.5	198.0	209.3
130	185.1	187.4	189.7	201.3	212.5
140	188.5	190.9	193.2	204.6	215.9
150	192.2	194.5	196.8	208.2	219.4
160	195.9	198.2	200.5	211.9	223.1
170	199.9	202.2	204.5	215.8	227.0
180	204.0	206.3	208.6	219.9	231.0
190	208.3	210.6	212.9	224.1	235.2
200	212.8	215.1	217.3	228.6	239.6
210	217.6	219.8	222.0	233.2	244.2
220	222.5	224.7	226.9	238.1	249.1
230	227.7	229.9	232.1	243.2	254.1
240	233.1	235.3	237.4	248.5	259.4
250	238.7	240.9	243.1	254.0	264.9
260	244.6	246.5	249.0	259.9	270.7
270	250.8	252.6	255.1	266.0	276.8
280	257.3	259.4	261.6	272.3	283.1
290	264.1	266.2	268.3	279.0	289.8
300	271.2	273.3	275.4	286.0	296.7
310	278.7	280.7	282.8	293.3	304.0
320	286.5	288.5	290.5	301.0	311.6
330	294.6	296.6	298.6	309.0	319.6
340	303.2	305.1	307.1	317.5	327.9
350	312.1	314.0	316.0	326.3	336.7
360	321.5	323.4	325.3	335.5	345.9
370	331.3	333.2	335.1	345.2	355.5
380	341.6	343.4	345.3	355.3	365.6
390	352.4	354.2	356.1	366.0	376.2
400	363.7	365.4	367.3	377.1	387.2
410	375.5	377.2	379.6	388.8	398.8
420	387.8	389.6	390.6	401.0	411.0
430	400.8	402.5	404.3	413.8	423.7
440	414.4	416.0	417.8	427.2	437.0
450	428.6	430.2	432.0	441.2	451.0
460	443.5	445.1	446.8	455.9	465.6
470	459.1	460.7	462.3	471.3	480.9
480	475.5	477.0	478.6	487.4	496.9
490	492.7	494.1	495.7	504.3	513.6
500	510.8	512.1	513.6	522.0	531.1

Table XIV Viscosity of Carbon Dioxide

ρ - density, kg/m^3; T – temperature, K; Viscosity · 10^6, Pa·s

ρ	T = 298	T = 299	T = 300	T = 301	T = 302	T = 303	T = 304	T = 305	T = 306
100	16.06	16.11	16.15	16.20	16.25	16.30	16.35	16.39	16.44
150	17.16	17.21	17.26	17.30	17.35	17.40	17.45	17.50	17.55
200	18.63	18.67	18.72	18.77	18.82	18.87	18.91	18.96	19.01
250	20.46	20.51	20.55	20.60	20.65	20.70	20.75	20.79	20.84
300			22.76	22.81	22.85	22.90	22.95	22.99	23.04
350							25.52	25.57	25.61
400								28.53	28.57
420								29.82	29.86
440								31.18	31.22
460								32.60	32.64
480								34.10	34.14
500								35.66	35.70
520								37.30	37.34
540							38.98	39.01	39.05
560							40.77	40.81	40.85
580							42.65	42.69	42.73
600						44.58	44.62	44.66	44.71
650			49.83	49.87	49.91	49.96	50.00	50.04	50.09
700	55.85	55.90	55.94	55.98	56.03	56.07	56.12	56.16	56.21

ρ	T = 307	T = 308	T = 309	T = 310	T = 315	T = 320	T = 325	T = 330
100	16.49	16.54	16.59	16.64	16.87	17.11	17.35	17.59
150	17.59	17.64	17.69	17.74	17.98	18.21	18.45	18.69
200	19.06	19.11	9.159	19.20	19.44	19.68	19.92	20.15
250	20.89	20.94	20.98	21.03	21.27	21.51	21.74	21.98
300	23.09	23.13	23.18	23.23	23.47	23.70	23.94	24.17
350	25.66	25.71	25.75	25.80	26.03	26.27	26.50	26.74
400	28.61	28.66	28.70	28.75	28.98	29.22	29.45	29.68
420	29.91	29.95	30.00	30.04	30.27	30.51	30.74	30.97
440	31.26	31.31	31.35	31.40	31.63	31.86	32.09	32.33
460	32.69	32.73	32.78	32.82	33.05	33.28	33.52	33.75
480	34.18	34.22	34.27	34.31	34.54	34.77	35.01	35.24
500	35.74	35.79	35.83	35.88	36.10	36.34	36.57	36.80
520	37.38	37.42	37.47	37.51	37.74	37.97	38.20	38.43
540	39.10	39.14	39.18	39.23	39.46	39.69	39.92	40.15
560	40.89	40.94	40.98	41.03	41.25	41.48	41.71	41.94
580	42.78	42.82	42.86	42.91	43.14	43.36	43.59	43.82
600	44.75	44.79	44.84	44.88	45.11	45.34	45.57	45.80
650	50.13	50.18	50.22	50.27	50.49	50.72	50.95	51.17
700	56.25	56.30	56.34	56.39	56.61	56.84	57.06	57.29

Table XV Thermal Conductivity of Benzene

ρ - density, kg/m^3; T – temperature, K; Thermal conductivity · 10^3, W/(m·K)

ρ	T = 550	T = 560	T = 561	T = 562	T = 563	T = 564	T = 565	T = 566	T = 567
120	47.74	46.53	46.54	46.56	46.58	46.62	46.66	46.70	46.75
140	48.33	47.98	48.01	48.04	48.08	48.12	48.16	48.21	48.27
160		50.13	50.11	50.11	50.12	50.13	50.15	50.18	50.21
180		53.05	52.93	52.83	52.75	52.70	52.65	52.62	52.60
200			56.95	56.60	56.32	56.08	55.89	55.74	55.61
220				62.34	61.46	60.79	60.25	59.82	59.46
240				72.65	69.58	67.63	66.24	65.17	64.33
260				91.41	83.81	77.72	74.14	71.71	69.95
280				146.77	111.01	90.39	82.31	77.79	74.84
300					140.09	97.49	86.40	80.83	77.39
302					139.94	97.51	86.46	80.92	77.49
304					138.78	97.30	86.40	80.92	77.52
306					137.05	97.01	86.30	80.90	77.54
308					134.87	96.64	86.17	80.85	77.55
310					132.35	96.20	86.00	80.79	77.54
320				232.32	118.00	93.23	84.78	80.23	77.32
340				114.54	95.66	85.88	81.10	78.16	76.13
360				90.95	83.33	79.64	77.32	75.70	74.50
380				78.99	76.94	75.54	74.51	73.71	73.07
400			75.51	74.60	73.90	73.35	72.90	72.54	72.23
420		73.69	73.30	72.98	72.72	72.50	72.32	72.17	72.05
440		72.95	72.82	72.71	72.62	72.55	72.49	72.45	72.42
460		73.24	73.21	73.19	73.19	73.18	73.19	73.20	73.22
480	74.23	74.10	74.12	74.15	74.19	74.22	74.27	74.31	74.36
500	74.99	75.33	75.38	75.44	75.49	75.55	75.62	75.68	75.75
520	76.21	76.81	76.88	76.96	77.03	77.10	77.18	77.26	77.34
540	77.73	78.49	78.58	78.66	78.75	78.83	78.92	79.00	79.09
560	79.47	80.34	80.43	80.52	80.62	80.71	80.81	80.90	80.99
580	81.39	82.34	82.44	82.54	82.62	82.74	82.84	82.94	83.04
600	83.49	84.51	84.61	84.71	84.82	84.92	85.03	85.13	85.24
650	89.59	90.70	90.82	90.93	91.04	91.15	91.27	91.38	91.49

ρ	T = 568	T = 569	T = 570	T = 580	T = 590	T = 600	T = 650	T = 700
120	46.80	46.86	46.92	47.66	48.56	49.52	54.64	59.58
140	48.32	48.38	58.45	49.19	50.06	51.01	56.07	60.99
160	50.24	50.28	50.34	50.94	51.74	52.63	57.56	62.43
180	52.59	52.59	52.59	52.94	53.59	54.39	59.12	63.92
200	55.50	55.41	55.34	55.21	55.63	56.29	60.73	65.44
220	59.15	58.90	58.69	57.75	57.81	58.28	62.38	66.98
240	63.64	63.08	62.61	60.41	60.03	60.26	64.00	68.52
260	68.60	67.54	66.68	62.91	62.09	62.13	65.57	70.02
280	72.75	71.18	69.96	64.98	63.88	63.80	67.09	71.50
300	75.02	73.28	71.94	66.61	65.43	65.33	68.57	72.98
302	75.13	73.39	72.06	66.74	65.58	65.47	68.72	73.13
304	75.18	73.46	72.14	66.87	65.71	65.61	68.87	73.28
306	75.23	73.53	72.22	66.99	65.84	65.75	69.02	73.43
308	75.26	73.58	72.28	67.11	65.98	65.89	69.16	73.58
310	75.29	73.62	72.35	67.22	66.11	66.03	69.31	73.74

Table XV Thermal Conductivity of Benzene (*Continued*)

ρ	$T = 568$	$T = 569$	$T = 570$	$T = 580$	$T = 590$	$T = 600$	$T = 650$	$T = 700$
320	75.27	73.75	72.57	67.78	66.75	66.71	70.05	74.50
340	74.64	73.49	72.58	68.75	67.95	68.01	71.50	76.00
360	73.56	72.81	72.20	69.52	69.02	69.22	72.93	77.49
380	72.56	72.13	71.77	70.17	70.01	70.37	74.33	78.96
400	71.98	71.77	71.59	70.84	70.99	71.50	75.72	80.44
420	71.94	71.85	71.78	71.64	72.04	72.68	77.14	81.93
440	72.39	72.38	72.37	72.63	73.21	73.96	78.62	83.48
460	73.25	73.27	73.31	73.81	74.53	75.36	80.18	85.10
480	74.41	74.46	74.52	75.19	76.00	76.90	81.85	86.81
500	75.82	75.89	75.96	76.75	77.63	78.57	83.62	88.61
520	77.42	77.50	77.58	78.45	79.39	80.37	85.51	90.53
540	79.18	79.27	79.36	80.30	81.28	82.29	87.51	92.55
560	81.09	81.19	81.28	82.27	83.29	84.33	89.62	94.69
580	83.14	83.24	83.34	84.37	85.43	86.49	91.85	96.95
600	85.34	85.45	85.55	86.62	87.70	88.79	94.22	99.35
650	91.60	91.72	91.83	92.96	94.09	95.23	100.80	106.00

Table XVI Thermal Conductivity of Toluene

ρ - density, kg/m^3; T – temperature, K; Thermal conductivity · 10^3, W/(m·K)

ρ	$T = 550$	$T = 560$	$T = 570$	$T = 580$	$T = 590$	$T = 591$	$T = 592$	$T = 593$	$T = 594$
70	39.19	40.44	41.70	42.97	44.24	44.37	44.50	44.63	44.75
90			43.16	44.41	45.68	45.80	45.93	46.06	46.18
120			45.99	47.15	48.34	48.46	48.59	48.71	48.83
140				49.47	50.52	50.63	50.74	50.85	50.96
160					53.16	53.24	53.32	53.40	53.49
180					56.59	56.57	56.56	56.57	56.58
200						61.37	61.05	60.79	60.59
220							68.63	67.18	66.18
240								80.32	74.94
260									92.15
280									150.91
287									202.21
289									211.18
291									210.57
293									200.85
295									186.38
297									171.37
299									157.87
300									151.90
310									114.79
320									98.61
340								91.64	84.87
360							83.36	80.87	79.23
380							77.77	77.08	76.54
400					76.26	75.94	75.67	75.45	75.27
420					75.04	74.96	74.90	74.85	74.81
440				75.12	74.78	74.79	74.82	74.84	74.88

Table XVI Thermal Conductivity of Toluene (*Continued*)

ρ	T = 550	T = 560	T = 570	T = 580	T = 590	T = 591	T = 592	T = 593	T = 594
460				74.64	75.06	75.12	75.18	75.25	75.32
480			74.44	74.95	75.91	75.80	75.89	75.97	76.06
500			74.88	75.72	76.67	76.77	76.87	76.97	77.08
520			75.83	76.84	77.91	78.02	78.13	78.24	78.35
540		76.11	77.17	78.28	79.43	79.55	79.66	79.78	79.90
560	76.61	77.72	78.88	80.06	81.26	81.38	81.50	81.63	81.75
580	78.57	79.76	80.97	82.20	83.45	83.57	83.70	83.82	83.95
600	81.02	82.25	83.51	84.77	86.04	86.17	86.30	86.43	86.56
650	89.61	90.91	92.22	93.54	94.86	94.99	95.13	95.26	95.39

ρ	T = 595	T = 596	T = 597	T = 598	T = 599	T = 600	T = 650	T = 700
70	44.88	45.01	45.14	45.27	45.39	45.52	51.92	58.17
90	46.31	46.44	46.56	46.69	46.82	46.94	53.31	59.54
120	48.95	49.07	49.19	49.32	49.44	49.56	55.78	61.94
140	51.07	51.19	51.30	51.41	51.53	51.64	57.64	63.71
160	53.58	53.67	53.76	53.85	53.94	54.04	59.63	65.58
180	56.61	56.64	56.68	56.72	56.77	56.82	61.68	67.47
200	60.43	60.30	60.20	60.12	60.06	60.02	63.71	69.34
220	65.44	64.88	64.23	64.08	63.80	63.57	65.64	71.12
240	72.20	70.47	69.27	68.38	67.70	67.17	67.45	72.81
260	81.12	76.65	74.10	72.44	71.26	70.38	69.11	74.40
280	90.22	81.74	77.84	75.52	73.97	72.85	70.66	75.90
287	92.04	82.81	78.69	76.28	74.67	73.52	71.18	76.41
289	92.34	83.02	78.89	76.46	74.85	73.69	71.33	76.55
291	92.54	83.21	79.07	76.64	75.02	73.86	71.47	76.69
293	92.63	83.36	79.23	76.80	75.18	74.02	71.61	76.83
295	92.62	83.47	79.36	76.94	75.33	74.17	71.75	76.97
297	92.51	83.54	79.48	77.07	75.47	74.31	71.89	77.10
299	92.30	83.57	79.57	77.19	75.59	74.44	72.03	77.24
300	92.17	83.57	79.60	77.24	75.56	74.51	72.10	77.30
310	89.88	83.12	79.69	77.56	76.09	75.02	72.78	77.97
320	86.84	82.06	79.33	77.55	76.27	75.32	73.43	78.62
340	81.49	79.39	77.94	76.87	76.05	75.41	74.67	79.86
360	78.06	77.17	76.48	75.94	75.49	75.12	75.80	81.03
380	76.10	75.74	75.44	75.19	74.99	74.82	76.85	82.16
400	75.12	74.99	74.89	74.80	74.74	74.68	77.84	83.24
420	74.79	74.77	74.77	74.77	74.78	74.80	78.81	84.32
440	74.92	74.96	75.00	75.05	75.11	75.16	79.81	85.43
460	75.39	75.46	75.54	75.62	75.70	75.78	80.89	86.60
480	76.15	76.25	76.34	76.43	76.53	76.62	82.07	87.89
500	77.18	77.28	77.39	77.49	77.60	77.70	83.41	89.31
520	78.46	78.57	78.69	78.80	78.91	79.02	84.93	90.93
540	80.02	80.13	80.25	80.37	80.49	80.61	86.68	92.76
560	81.87	81.99	82.11	82.24	82.36	82.48	88.70	94.86
580	84.07	84.20	84.32	84.45	84.58	84.70	91.04	97.27
600	86.69	86.81	86.94	87.07	87.20	87.33	91.77	100.0
650	95.52	95.66	95.79	95.92	96.06	96.19	102.8	109.2

Table XVII Thermal Conductivity of Ethylbenzene

ρ - density, kg/m^3; T – temperature, K; Thermal conductivity · 10^3, W/(m·K)

ρ	T = 560	T = 570	T = 580	T = 590	T = 600	T = 610	T = 619
70	41.56	43.12	44.72	46.10	47.04	48.76	50.36
90		43.25	44.79	46.36	47.97	49.61	51.12
120				47.37	48.95	50.56	52.03
140						51.49	52.86
160							53.92
180							55.52
200							58.17
220							62.79
240							72.22
260							105.19
280							
285							
291							
292							
294							
296							
298							
300							
302							
310							
320							
340							
360							
380							
400							76.88
420						78.21	75.66
440						76.15	75.39
460						75.74	75.73
480					76.05	76.12	76.49
500				76.34	76.48	76.93	77.51
520			76.64	76.85	77.33	78.00	78.71
540		76.90	77.18	77.71	78.40	79.21	80.00
560	77.02	77.40	77.99	78.72	79.55	80.46	81.33
580	77.41	78.10	78.90	79.78	80.73	81.72	82.65
600	78.00	78.89	79.84	80.85	81.89	82.96	83.94
650	80.17	81.33	82.50	83.69	84.89	86.09	87.19

ρ	T = 620	T = 621	T = 622	T = 623	T = 624	T = 625	T = 626
70	50.54	50.72	50.90	51.08	51.26	51.45	51.63
90	51.29	51.46	51.63	51.80	51.97	52.14	52.32
120	52.19	52.35	52.52	52.68	52.85	53.02	53.18
140	53.02	53.17	53.32	53.48	53.63	53.78	53.94
160	54.05	54.18	54.31	54.44	54.57	54.70	54.83
180	55.61	55.70	55.79	55.88	55.97	56.06	56.16
200	58.14	58.11	58.10	58.10	58.11	58.13	58.15
220	62.36	62.00	61.71	61.47	61.27	61.10	60.97
240	69.89	68.29	67.12	66.24	65.55	64.99	64.54
260	84.71	77.96	74.36	72.08	70.48	69.30	68.39

Table XVII Thermal Conductivity of Ethylbenzene *(Continued)*

ρ	T = 620	T = 621	T = 622	T = 623	T = 624	T = 625	T = 626
280	112.14	88.79	81.29	77.31	74.79	73.02	71.72
285	118.39	90.67	82.50	78.27	75.61	73.76	72.39
291	121.96	92.13	83.60	79.21	76.46	74.55	73.14
292	122.08	92.31	83.76	79.35	76.59	74.67	73.26
294	121.89	92.58	84.04	79.62	76.85	74.92	73.49
296	121.18	92.74	84.27	79.86	77.08	75.15	73.72
298	120.04	92.81	84.45	80.07	77.29	75.36	73.93
300	118.55	92.79	84.59	80.25	77.49	75.56	74.13
302	116.83	92.68	84.68	80.40	77.66	75.74	74.32
310	109.10	91.59	84.66	80.74	78.17	76.33	74.95
320	100.44	89.37	83.98	80.69	78.43	76.77	75.50
340	88.96	84.54	81.66	79.62	78.08	76.88	75.92
360	82.42	80.59	79.17	78.05	77.14	76.39	75.76
380	78.60	77.81	77.15	76.59	76.11	75.70	75.34
400	76.48	76.15	75.86	75.60	75.37	75.18	75.00
420	75.52	75.39	75.28	75.18	75.10	75.02	74.96
440	75.36	75.33	75.31	75.30	75.29	75.29	75.29
460	75.76	75.78	75.81	75.84	75.88	75.92	75.96
480	76.54	76.59	76.65	76.71	76.77	76.83	76.90
500	77.58	77.66	77.73	77.80	77.88	77.96	78.04
520	78.79	78.88	78.96	79.05	79.13	79.22	79.31
540	80.09	80.19	80.28	80.37	80.47	80.56	80.66
560	81.43	81.53	81.63	81.73	81.83	81.93	82.03
580	82.76	82.86	82.97	83.07	83.18	83.28	83.39
600	84.05	84.16	84.67	84.38	84.50	84.61	84.72
650	87.31	87.43	87.55	87.67	87.79	87.92	88.04

ρ	T = 627	T = 628	T = 630	T = 640	T = 650	T = 700
70	51.81	52.00	52.37	53.25	54.19	64.00
90	52.49	52.66	53.01	54.76	56.55	65.21
120	53.35	53.51	53.85	55.53	57.24	65.99
140	54.09	54.25	54.55	56.10	57.66	66.40
160	54.97	55.10	55.36	56.70	58.06	66.99
180	56.25	56.35	56.55	57.62	58.76	67.53
200	58.18	58.22	58.30	58.96	59.84	67.99
220	60.86	60.77	60.65	60.67	61.24	68.21
240	64.18	63.87	63.41	62.59	62.82	68.98
260	67.68	67.10	66.23	64.55	64.47	69.40
280	70.71	69.91	68.74	66.42	66.12	69.89
285	71.35	70.51	69.29	66.87	66.52	70.15
291	72.05	71.19	69.93	67.41	67.02	70.57
292	72.17	71.31	70.04	67.50	67.10	70.64
294	72.40	71.53	70.25	67.68	67.27	70.87
296	72.62	71.74	70.45	67.86	67.44	70.93
298	72.82	71.95	70.65	68.04	67.60	71.07
300	73.02	72.15	70.85	68.21	67.77	71.21
302	73.21	72.34	71.03	68.39	67.93	71.35
310	73.87	73.01	71.72	69.06	68.57	71.92
320	74.49	73.68	72.45	69.84	69.34	72.62
340	75.14	74.49	73.47	71.21	70.76	74.00

Table XVII Thermal Conductivity of Ethylbenzene (*Continued*)

ρ	$T = 627$	$T = 628$	$T = 630$	$T = 640$	$T = 650$	$T = 700$
360	75.22	74.77	74.04	72.33	72.04	75.35
380	75.03	74.75	74.30	73.25	73.18	76.68
400	74.85	74.71	74.49	74.05	74.23	78.02
420	74.91	74.86	74.80	74.84	75.26	79.38
440	75.30	75.31	75.35	75.73	76.34	80.78
460	76.00	76.05	76.14	76.75	77.51	82.22
480	76.96	77.03	77.17	77.93	78.78	83.73
500	78.12	78.20	78.36	79.23	80.16	85.28
520	79.40	79.49	79.67	80.61	81.59	86.85
540	80.75	80.85	81.04	82.04	83.07	88.45
560	82.13	82.24	82.44	83.48	84.55	90.04
580	83.50	83.60	83.82	84.90	86.00	91.61
600	84.83	84.94	85.17	86.29	87.43	93.15
650	88.16	88.28	88.52	89.74	90.96	96.98

Table XVIII Thermal Conductivity of *o*-Xylene

ρ - density, kg/m^3; T – temperature, K; Thermal conductivity · 10^3, W/(m·K)

ρ	$T = 550$	$T = 560$	$T = 570$	$T = 580$	$T = 590$	$T = 600$	$T = 610$	$T = 620$
70				41.83	43.14	44.46	45.81	47.78
90						44.77	46.10	47.45
120							47.17	48.52
140								49.88
160								52.77
180								
190								
200								
210								
220								
230								
240								
250								
260								
270								
280								
290								
300								
310								
320								
330								
340								
350								
360								
370								
380								
390								
400								
420								84.10
440								77.58

Table XVIII Thermal Conductivity of *o*-Xylene (*Continued*)

ρ	T = 550	T = 560	T = 570	T = 580	T = 590	T = 600	T = 610	T = 620
460								75.90
480							75.61	75.78
500							75.73	76.40
520						75.58	76.47	77.42
540	70.03	71.08	72.98	74.11	75.24	76.37	77.51	78.64
560	70.44	71.91	73.35	74.73	76.07	77.38	78.67	79.95
580	71.08	72.67	74.20	75.68	77.12	78.53	79.92	81.29
600	72.26	73.83	75.38	76.89	78.37	79.84	81.28	82.72
650	76.57	78.09	79.60	81.11	82.62	84.12	85.62	87.12

ρ	T = 627	T = 630	T = 631	T = 632	T = 633	T = 634	T = 635
70	48.15	48.56	48.70	48.84	48.98	49.12	49.26
90	48.40	48.81	48.95	49.09	49.23	49.37	49.50
120	49.48	49.90	50.04	50.18	50.32	50.46	50.59
140	50.81	51.22	51.35	51.49	51.63	51.76	51.90
160	53.18	53.45	53.55	53.65	53.75	53.86	53.96
180		57.93	57.71	57.54	57.42	57.34	57.28
200			68.33	65.60	64.02	62.99	62.27
220				84.57	74.11	70.12	67.91
240				111.94	82.27	75.58	72.21
260				116.08	86.58	79.30	75.69
280				122.16	92.51	84.39	80.23
282				123.58	93.33	85.04	80.79
284				125.14	94.19	85.70	81.35
286				126.74	95.04	86.35	81.90
288				126.80	95.08	86.39	81.94
290				126.37	94.86	86.22	81.80
293				125.90	94.57	86.00	81.61
296				125.74	94.39	85.85	81.48
300				125.95	94.35	85.77	81.40
310				127.09	95.02	86.18	81.68
320				125.43	96.01	87.09	82.46
340				110.39	94.81	87.88	83.79
360				94.40	88.88	85.34	82.83
380				84.67	82.84	81.39	80.21
400		81.10	80.22	79.47	78.82	78.26	77.78
420	78.52	77.42	77.14	76.89	76.66	76.46	76.27
440	76.29	75.99	75.91	75.85	75.79	75.74	75.70
460	75.74	75.75	75.76	75.78	75.79	75.82	75.84
480	76.07	76.23	76.29	76.34	76.40	76.46	76.53
500	76.93	77.18	77.26	77.34	77.43	77.51	77.60
520	78.11	78.41	78.51	78.61	78.71	78.81	78.92
540	79.44	79.79	79.90	80.02	80.13	80.25	80.36
560	80.83	81.21	81.34	81.46	81.59	81.72	81.84
580	82.24	82.65	82.78	82.96	83.05	83.19	83.32
600	83.71	84.14	84.28	84.42	84.56	84.70	84.84
650	88.16	88.61	88.76	88.91	89.06	89.21	89.35

Table XVIII Thermal Conductivity of *o*-Xylene (*Continued*)

ρ	$T = 636$	$T = 637$	$T = 638$	$T = 639$	$T = 640$	$T = 650$	$T = 700$
70	49.40	49.55	49.69	49.83	49.97	51.39	58.81
90	49.64	49.78	49.92	50.06	50.20	51.60	58.84
120	50.73	50.87	51.01	51.15	51.29	52.70	59.85
140	52.04	52.17	52.31	52.45	52.59	53.97	60.95
160	54.07	54.18	54.30	54.41	54.52	55.72	62.25
180	57.25	57.23	57.23	57.25	57.27	57.90	63.67
200	61.74	61.34	61.04	60.80	60.62	60.23	65.12
220	66.50	65.52	64.80	64.26	63.84	62.45	66.60
240	70.22	68.87	67.90	67.16	66.60	64.55	68.14
260	73.47	71.94	70.83	69.99	69.32	66.77	69.79
280	77.63	75.83	74.49	73.47	72.66	69.35	71.68
282	78.12	76.28	74.91	73.87	73.04	69.63	71.88
284	78.62	76.73	75.34	74.27	73.42	69.91	72.09
286	79.11	77.18	75.75	74.66	73.79	70.19	72.29
288	79.15	77.22	75.79	74.69	73.82	70.22	72.30
290	79.03	77.11	75.69	74.60	73.73	70.16	72.24
293	78.86	76.96	75.55	74.47	73.61	70.07	72.17
296	78.74	76.85	75.45	74.37	73.52	70.01	72.11
300	78.66	76.77	75.37	74.30	73.45	69.96	72.05
310	78.88	76.94	75.52	74.43	73.56	70.01	72.02
320	79.56	77.55	76.06	74.93	74.03	70.30	72.16
340	81.05	79.08	77.58	76.41	75.47	71.43	72.83
360	80.95	79.48	78.31	77.35	76.55	72.79	73.87
380	79.24	78.42	77.72	77.12	76.61	73.89	75.13
400	77.35	76.97	76.63	76.34	76.07	74.60	76.47
420	76.11	75.97	75.84	75.72	75.62	75.11	77.84
440	75.66	75.63	75.61	75.59	75.58	75.70	79.25
460	75.87	75.90	75.94	75.97	76.01	76.52	80.73
480	76.59	76.66	76.72	76.79	76.86	77.62	82.35
500	77.68	77.77	77.86	77.95	78.04	78.96	84.11
520	79.02	79.12	79.22	79.33	79.43	80.48	86.00
540	80.48	80.59	80.71	80.82	80.94	82.10	87.98
560	81.97	82.09	82.22	82.35	82.47	83.73	89.97
580	83.46	83.59	83.73	83.86	84.00	85.33	91.91
600	84.98	85.12	85.27	85.41	85.55	86.95	93.81
650	89.50	89.65	89.80	89.95	90.10	91.58	98.88

Table XIX Thermal Conductivity of Carbon Dioxide

ρ - density, kg/m^3; T – temperature, K; Thermal conductivity · 10^3, W/(m·K)

ρ	$T = 298$	$T = 299$	$T = 300$	$T = 301$	$T = 302$	$T = 303$	$T = 304$	$T = 305$	$T = 306$
50	19.25	19.31	19.38	19.44	19.51	19.57	19.64	19.71	19.77
55	19.43	19.49	19.56	19.62	19.69	19.75	19.82	19.88	19.95
100	21.64	21.69	21.75	21.80	21.85	21.91	21.96	22.01	22.07
150	25.42	25.43	25.43	25.45	25.46	25.47	25.49	25.51	25.53
200	31.28	31.12	30.99	30.87	30.76	30.67	30.58	30.51	30.44
250	42.15	41.15	40.34	39.68	39.11	38.63	38.22	37.86	37.54
300			66.55	59.55	55.61	52.97	51.05	49.57	48.39
350								70.37	65.66

Table XIX Thermal Conductivity of Carbon Dioxide *(Continued)*

ρ	$T = 298$	$T = 299$	$T = 300$	$T = 301$	$T = 302$	$T = 303$	$T = 304$	$T = 305$	$T = 306$
400								107.33	89.78
420								124.07	98.73
440								136.61	105.41
460								143.41	109.89
480								143.86	111.37
500								139.03	110.49
520								129.67	107.76
540							172.67	118.52	103.57
560							129.00	108.11	99.10
580							110.14	100.69	95.33
600						109.14	100.71	95.92	92.70

ρ	$T = 307$	$T = 308$	$T = 309$	$T = 310$	$T = 315$	$T = 320$	$T = 325$	$T = 330$
50	19.84	19.91	19.97	20.04	20.38	20.72	21.07	21.41
55	20.02	20.08	20.15	20.22	20.55	20.89	21.24	21.58
100	22.13	22.18	22.24	22.30	22.59	22.89	23.20	23.52
150	25.56	25.58	25.61	25.64	25.81	26.01	26.24	26.48
200	30.39	30.34	30.30	30.26	30.16	30.15	30.22	30.34
250	37.27	37.02	36.80	36.61	35.90	35.49	35.27	35.18
300	47.41	46.60	45.91	45.32	43.28	42.13	41.43	41.00
350	62.41	60.00	58.13	56.63	52.06	49.74	48.39	47.54
400	80.94	75.41	71.56	68.71	60.97	57.47	55.51	54.30
420	87.41	80.70	76.18	72.89	64.23	60.41	58.29	56.98
440	92.45	85.01	80.07	76.51	67.28	63.25	61.02	59.65
460	96.28	88.52	83.40	79.71	70.18	66.04	63.74	62.32
480	98.10	90.51	85.49	81.87	72.49	68.39	66.12	64.72
500	98.41	91.39	86.70	83.30	74.40	70.48	68.30	66.96
520	97.65	91.56	87.40	84.35	76.19	72.53	70.47	69.20
540	95.91	91.02	87.56	84.97	77.80	74.49	72.61	71.45
560	93.73	90.07	87.37	85.29	79.28	76.38	74.72	73.68
580	91.75	89.13	87.12	85.52	80.68	78.24	76.81	75.92
600	90.35	88.54	87.09	85.89	82.11	80.12	78.93	78.20