



Table of Thermodynamic Parameters

-10					Freezing point
Temperature t (°C)	Density ρ (kg/m³)	Specific heat Cp (kJ/kg·K)	Dynamic viscosity μ (mPa·s)	Kinematic viscosity ν (mm²/s)	Thermal conductivity k (W/m·K)
60	1091	3,588	0,900	0,825	0,599
50	1094	3,581	0,990	0,905	0,583
40	1098	3,572	1,110	1,011	0,568
30	1101	3,561	1,260	1,144	0,553
20	1103	3,548	1,550	1,405	0,538
10	1105	3,532	2,092	1,893	0,523
0	1107	3,513	2,824	2,551	0,508
-10	1109	3,491	3,812	3,437	0,493

-15					Freezing point
Temperature t (°C)	Density ρ (kg/m³)	Specific heat Cp (kJ/kg·K)	Dynamic viscosity μ (mPa·s)	Kinematic viscosity ν (mm²/s)	Thermal conductivity k (W/m·K)
60	1113	3,488	1,010	0,908	0,584
50	1116	3,480	1,100	0,986	0,569
40	1120	3,470	1,230	1,099	0,555
30	1123	3,456	1,400	1,247	0,541
20	1125	3,438	1,720	1,530	0,527
10	1127	3,418	2,270	2,015	0,513
0	1129	3,395	3,200	2,836	0,499
-10	1131	3,369	4,720	4,175	0,484
-15	1132	3,354	5,590	4,940	0,478

-20					Freezing point
Temperature t (°C)	Density ρ (kg/m³)	Specific heat Cp (kJ/kg·K)	Dynamic viscosity μ (mPa·s)	Kinematic viscosity ν (mm²/s)	Thermal conductivity k (W/m·K)
60	1134	3,369	1,210	1,067	0,567
50	1138	3,359	1,300	1,143	0,554
40	1141	3,348	1,430	1,253	0,541
30	1144	3,331	1,630	1,425	0,528
20	1147	3,309	1,970	1,718	0,514
10	1150	3,284	2,570	2,235	0,501
0	1152	3,257	3,580	3,108	0,488
-10	1154	3,227	5,850	5,070	0,475
-20	1155	3,194	8,820	7,638	0,462



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-25					Freezing point
Temperature t (°C)	Density ρ (kg/m ³)	Specific heat Cp (kJ/kg·K)	Dynamic viscosity μ (mPa·s)	Kinematic viscosity ν (mm ² /s)	Thermal conductivity k (W/m·K)
60	1149	3,178	1,420	1,236	0,555
50	1154	3,168	1,520	1,317	0,542
40	1158	3,157	1,700	1,468	0,529
30	1162	3,140	1,950	1,678	0,516
25	1166	3,128	2,180	1,870	0,502
20	1170	3,118	2,290	1,957	0,503
10	1173	3,093	2,930	2,497	0,490
0	1175	3,066	4,000	3,403	0,477
-10	1177	3,036	6,200	5,266	0,464
-20	1178	3,003	9,500	8,062	0,452
-25	1179	2,979	15,700	13,312	0,440

-30					Freezing point
Temperature t (°C)	Density ρ (kg/m ³)	Specific heat Cp (kJ/kg·K)	Dynamic viscosity μ (mPa·s)	Kinematic viscosity ν (mm ² /s)	Thermal conductivity k (W/m·K)
60	1167	3,135	1,790	1,534	0,544
50	1172	3,127	1,880	1,605	0,531
40	1176	3,117	2,010	1,710	0,519
30	1180	3,105	2,210	1,873	0,506
20	1183	3,089	2,550	2,156	0,494
10	1186	3,067	3,210	2,707	0,481
0	1189	3,040	4,410	3,710	0,468
-10	1192	3,007	6,590	5,530	0,456
-20	1195	2,969	10,280	8,605	0,443
-30	1197	2,926	17,500	14,624	0,431



Table of Thermodynamic Parameters

-40					Freezing point
Temperature t (°C)	Density ρ (kg/m ³)	Specific heat C_p (kJ/kg·K)	Dynamic viscosity μ (mPa·s)	Kinematic viscosity ν (mm ² /s)	Thermal conductivity k (W/m·K)
60	1201	3,030	2,000	1,665	0,518
50	1207	3,020	2,170	1,797	0,508
40	1210	3,008	2,450	2,024	0,498
30	1214	2,993	2,710	2,232	0,487
20	1218	2,978	3,370	2,766	0,476
10	1222	2,967	4,310	3,526	0,465
0	1226	2,948	5,760	4,697	0,454
-10	1229	2,921	8,300	6,751	0,443
-20	1233	2,887	13,420	10,881	0,432
-30	1236	2,845	24,710	19,986	0,421
-40	1239	2,798	52,280	42,182	0,410

-55					Freezing point
Temperature t (°C)	Density ρ (kg/m ³)	Specific heat C_p (kJ/kg·K)	Dynamic viscosity μ (mPa·s)	Kinematic viscosity ν (mm ² /s)	Thermal conductivity k (W/m·K)
60	1237	2,918	2,161	1,747	0,492
50	1241	2,897	2,491	2,008	0,483
40	1247	2,869	2,931	2,351	0,474
30	1252	2,838	3,521	2,813	0,465
20	1257	2,803	4,341	3,454	0,456
10	1262	2,767	5,541	4,391	0,447
0	1266	2,731	7,391	5,839	0,438
-10	1270	2,696	10,391	8,183	0,429
-20	1275	2,665	15,611	12,246	0,420
-30	1282	2,637	25,461	19,863	0,411
-40	1285	2,616	46,001	35,803	0,402
-50	1288	2,591	94,391	73,295	0,393
-55	1289	2,587	143,231	111,133	0,388



Table of Thermodynamic Parameters

-60					Freezing point
Temperature t (°C)	Density ρ (kg/m ³)	Specific heat C_p (kJ/kg·K)	Dynamic viscosity μ (mPa·s)	Kinematic viscosity ν (mm ² /s)	Thermal conductivity k (W/m·K)
60	1255	2,891	2,379	1,896	0,485
50	1260	2,870	2,729	2,166	0,476
40	1264	2,842	3,189	2,524	0,467
30	1269	2,811	3,809	3,002	0,458
20	1274	2,776	4,689	3,681	0,449
10	1279	2,737	5,969	4,668	0,441
0	1284	2,698	7,959	6,200	0,433
-10	1289	2,664	11,219	8,706	0,425
-20	1294	2,635	16,979	13,124	0,417
-30	1297	2,611	27,949	21,554	0,409
-40	1301	2,585	51,279	39,424	0,401
-50	1303	2,549	107,939	82,857	0,393
-55	1304	2,525	166,579	127,772	0,389
-60	1305	2,493	269,799	206,787	0,386