

KLEA® 410A



Thermodynamic Property Data SI Units

KLEA 410A

Saturation Properties

410A Thermodynamic Saturation Properties (SI Units)									
Temp. (°C)	Absolute Pressure (bara)	Density		Enthalpy			Entropy		Temp K
		kg/m ³		kJ/kg			kJ/(kg K)		
		Liquid	Vapour	Liquid	Latent	Vapour	Liquid	Vapour	
-80	0.1964	1402.2	0.9010	-2.751	285.319	282.568	0.561	2.039	193.15
-79	0.2101	1399.9	0.9590	-1.669	284.816	283.146	0.567	2.034	194.15
-78	0.2245	1397.5	1.0210	-0.583	284.306	283.723	0.573	2.029	195.15
-77	0.2398	1395.1	1.0860	0.510	283.789	284.299	0.578	2.025	196.15
-76	0.2560	1392.7	1.1540	1.607	283.265	284.873	0.584	2.021	197.15
-75	0.2730	1390.3	1.2260	2.710	282.735	285.445	0.589	2.016	198.15
-74	0.2910	1387.9	1.3010	3.819	282.197	286.016	0.595	2.012	199.15
-73	0.3100	1385.4	1.3800	4.933	281.652	286.585	0.600	2.008	200.15
-72	0.3299	1383.0	1.4630	6.052	281.099	287.152	0.606	2.003	201.15
-71	0.3509	1380.5	1.5500	7.177	280.540	287.717	0.612	1.999	202.15
-70	0.3730	1378.1	1.6410	8.307	279.972	288.280	0.617	1.995	203.15
-69	0.3962	1375.6	1.7360	9.443	279.398	288.841	0.623	1.991	204.15
-68	0.4206	1373.1	1.8360	10.585	278.815	289.400	0.628	1.987	205.15
-67	0.4462	1370.6	1.9400	11.731	278.225	289.957	0.634	1.983	206.15
-66	0.4731	1368.1	2.0500	12.884	277.628	290.511	0.639	1.980	207.15
-65	0.5012	1365.6	2.1640	14.041	277.022	291.063	0.645	1.976	208.15
-64	0.5308	1363.1	2.2830	15.204	276.409	291.613	0.651	1.972	209.15
-63	0.5617	1360.5	2.4070	16.373	275.788	292.161	0.656	1.968	210.15
-62	0.5941	1358.0	2.5370	17.546	275.159	292.705	0.662	1.965	211.15
-61	0.6280	1355.4	2.6720	18.726	274.522	293.248	0.667	1.961	212.15
-60	0.6634	1352.9	2.8140	19.910	273.877	293.787	0.673	1.958	213.15
-59	0.7004	1350.3	2.9610	21.100	273.224	294.324	0.678	1.954	214.15
-58	0.7391	1347.7	3.1140	22.296	272.562	294.858	0.684	1.951	215.15
-57	0.7795	1345.1	3.2730	23.496	271.893	295.389	0.689	1.947	216.15
-56	0.8217	1342.5	3.4400	24.702	271.215	295.917	0.695	1.944	217.15
-55	0.8657	1339.8	3.6120	25.913	270.529	296.442	0.701	1.941	218.15
-54	0.9115	1337.2	3.7920	27.130	269.835	296.964	0.706	1.937	219.15
-53	0.9593	1334.5	3.9790	28.351	269.132	297.483	0.712	1.934	220.15
-52	1.0091	1331.9	4.1730	29.578	268.421	297.999	0.717	1.931	221.15
-51	1.0610	1329.2	4.3740	30.810	267.701	298.512	0.723	1.928	222.15
-50	1.1149	1326.5	4.5840	32.048	266.973	299.021	0.728	1.925	223.15
-49	1.1711	1323.8	4.8010	33.290	266.237	299.527	0.734	1.922	224.15
-48	1.2294	1321.1	5.0270	34.537	265.492	300.029	0.739	1.919	225.15
-47	1.2901	1318.3	5.2610	35.790	264.738	300.528	0.745	1.916	226.15
-46	1.3531	1315.6	5.5030	37.048	263.976	301.024	0.750	1.913	227.15
-45	1.4185	1312.8	5.7540	38.310	263.206	301.516	0.756	1.910	228.15
-44	1.4865	1310.1	6.0150	39.578	262.426	302.004	0.761	1.907	229.15
-43	1.5570	1307.3	6.2850	40.850	261.638	302.489	0.767	1.904	230.15
-42	1.6301	1304.5	6.5640	42.128	260.842	302.970	0.772	1.901	231.15
-41	1.7059	1301.7	6.8530	43.410	260.036	303.447	0.778	1.898	232.15
-40	1.7844	1298.8	7.1530	44.698	259.222	303.920	0.784	1.895	233.15
-39	1.8658	1296.0	7.4620	45.990	258.399	304.389	0.789	1.893	234.15
-38	1.9501	1293.1	7.7830	47.287	257.567	304.854	0.795	1.890	235.15
-37	2.0374	1290.2	8.1140	48.589	256.727	305.316	0.800	1.887	236.15
-36	2.1277	1287.3	8.4560	49.896	255.877	305.773	0.806	1.884	237.15
-35	2.2211	1284.4	8.8100	51.207	255.019	306.226	0.811	1.882	238.15
-34	2.3177	1281.5	9.1750	52.523	254.152	306.675	0.816	1.879	239.15
-33	2.4175	1278.6	9.5530	53.844	253.276	307.120	0.822	1.877	240.15
-32	2.5207	1275.6	9.9430	55.170	252.390	307.560	0.827	1.874	241.15
-31	2.6273	1272.6	10.3460	56.500	251.496	307.996	0.833	1.872	242.15
-30	2.7374	1269.6	10.7610	57.835	250.593	308.428	0.838	1.869	243.15
-29	2.8511	1266.6	11.1900	59.175	249.681	308.856	0.844	1.866	244.15
-28	2.9683	1263.6	11.6320	60.519	248.760	309.278	0.849	1.864	245.15
-27	3.0893	1260.5	12.0880	61.867	247.829	309.697	0.855	1.862	246.15
-26	3.2141	1257.5	12.5590	63.221	246.890	310.110	0.860	1.859	247.15

410A Thermodynamic Saturation Properties (SI Units)									
Temp. (°C)	Absolute Pressure (bara)	Density		Enthalpy			Entropy		Temp K
		kg/m ³		kJ/kg			kJ/(kg K)		
		Liquid	Vapour	Liquid	Latent	Vapour	Liquid	Vapour	
-25	3.3428	1254.4	13.0440	64.579	245.941	310.520	0.866	1.857	248.15
-24	3.4754	1251.3	13.5440	65.941	244.983	310.924	0.871	1.854	249.15
-23	3.6121	1248.2	14.0590	67.308	244.016	311.324	0.876	1.852	250.15
-22	3.7529	1245.0	14.5900	68.679	243.039	311.719	0.882	1.850	251.15
-21	3.8978	1241.9	15.1370	70.055	242.053	312.109	0.887	1.847	252.15
-20	4.0471	1238.7	15.7000	71.436	241.058	312.494	0.893	1.845	253.15
-19	4.2007	1235.5	16.2800	72.821	240.053	312.874	0.898	1.843	254.15
-18	4.3588	1232.3	16.8770	74.210	239.039	313.249	0.904	1.840	255.15
-17	4.5214	1229.0	17.4920	75.604	238.015	313.619	0.909	1.838	256.15
-16	4.6886	1225.8	18.1250	77.003	236.981	313.984	0.914	1.836	257.15
-15	4.8605	1222.5	18.7770	78.406	235.938	314.344	0.920	1.834	258.15
-14	5.0372	1219.2	19.4470	79.813	234.885	314.698	0.925	1.832	259.15
-13	5.2187	1215.8	20.1370	81.225	233.822	315.048	0.931	1.829	260.15
-12	5.4053	1212.5	20.8460	82.642	232.750	315.391	0.936	1.827	261.15
-11	5.5968	1209.1	21.5760	84.063	231.667	315.730	0.941	1.825	262.15
-10	5.7936	1205.7	22.3260	85.488	230.574	316.063	0.947	1.823	263.15
-9	5.9955	1202.2	23.0980	86.919	229.471	316.390	0.952	1.821	264.15
-8	6.2028	1198.8	23.8910	88.353	228.358	316.711	0.957	1.819	265.15
-7	6.4154	1195.3	24.7070	89.793	227.234	317.027	0.963	1.816	266.15
-6	6.6336	1191.8	25.5460	91.237	226.100	317.337	0.968	1.814	267.15
-5	6.8573	1188.3	26.4080	92.685	224.956	317.641	0.973	1.812	268.15
-4	7.0868	1184.7	27.2940	94.139	223.800	317.939	0.979	1.810	269.15
-3	7.3220	1181.1	28.2040	95.597	222.634	318.231	0.984	1.808	270.15
-2	7.5630	1177.5	29.1400	97.060	221.457	318.517	0.989	1.806	271.15
-1	7.8101	1173.9	30.1020	98.527	220.269	318.796	0.995	1.804	272.15
0	8.0632	1170.2	31.0900	100.000	219.069	319.069	1.000	1.802	273.15
1	8.3224	1166.5	32.1050	101.478	217.858	319.336	1.005	1.800	274.15
2	8.5879	1162.7	33.1480	102.960	216.636	319.596	1.011	1.798	275.15
3	8.8597	1159.0	34.2200	104.448	215.402	319.849	1.016	1.796	276.15
4	9.1380	1155.1	35.3210	105.940	214.155	320.096	1.021	1.794	277.15
5	9.4228	1151.3	36.4520	107.438	212.897	320.335	1.027	1.792	278.15
6	9.7143	1147.4	37.6140	108.941	211.626	320.568	1.032	1.790	279.15
7	10.0125	1143.5	38.8070	110.450	210.343	320.793	1.037	1.788	280.15
8	10.3176	1139.6	40.0330	111.964	209.047	321.011	1.043	1.786	281.15
9	10.6295	1135.6	41.2930	113.484	207.737	321.221	1.048	1.784	282.15
10	10.9486	1131.6	42.5870	115.009	206.415	321.424	1.053	1.782	283.15
11	11.2748	1127.5	43.9160	116.540	205.079	321.618	1.058	1.780	284.15
12	11.6082	1123.4	45.2820	118.077	203.728	321.805	1.064	1.778	285.15
13	11.9490	1119.3	46.6850	119.620	202.364	321.984	1.069	1.776	286.15
14	12.2973	1115.1	48.1260	121.169	200.985	322.154	1.074	1.774	287.15
15	12.6531	1110.9	49.6070	122.724	199.591	322.316	1.080	1.772	288.15
16	13.0167	1106.6	51.1290	124.286	198.182	322.468	1.085	1.770	289.15
17	13.3880	1102.3	52.6930	125.855	196.757	322.612	1.090	1.768	290.15
18	13.7672	1097.9	54.3000	127.430	195.317	322.746	1.095	1.766	291.15
19	14.1545	1093.5	55.9520	129.012	193.859	322.871	1.101	1.764	292.15
20	14.5499	1089.0	57.6500	130.602	192.385	322.986	1.106	1.762	293.15
21	14.9535	1084.5	59.3960	132.198	190.893	323.091	1.111	1.760	294.15
22	15.3655	1080.0	61.1910	133.803	189.383	323.186	1.117	1.758	295.15
23	15.7860	1075.3	63.0370	135.415	187.855	323.270	1.122	1.756	296.15
24	16.2151	1070.6	64.9360	137.035	186.307	323.343	1.127	1.754	297.15
25	16.6529	1065.9	66.8890	138.664	184.740	323.404	1.133	1.752	298.15
26	17.0995	1061.1	68.8990	140.301	183.153	323.454	1.138	1.750	299.15
27	17.5552	1056.2	70.9670	141.948	181.544	323.491	1.143	1.748	300.15
28	18.0199	1051.3	73.0960	143.603	179.913	323.516	1.149	1.746	301.15
29	18.4938	1046.3	75.2880	145.268	178.260	323.528	1.154	1.744	302.15

410A Thermodynamic Saturation Properties (SI Units)									
Temp. (°C)	Absolute Pressure (bara)	Density		Enthalpy			Entropy		Temp K
		kg/m ³		kJ/kg			kJ/(kg K)		
		Liquid	Vapour	Liquid	Latent	Vapour	Liquid	Vapour	
30	18.9772	1041.2	77.5450	146.943	176.583	323.526	1.160	1.742	303.15
31	19.4700	1036.1	79.8710	148.629	174.882	323.511	1.165	1.740	304.15
32	19.9724	1030.9	82.2670	150.325	173.155	323.480	1.170	1.738	305.15
33	20.4846	1025.6	84.7380	152.033	171.402	323.435	1.176	1.736	306.15
34	21.0068	1020.2	87.2850	153.752	169.621	323.373	1.181	1.733	307.15
35	21.5389	1014.7	89.9130	155.484	167.812	323.296	1.187	1.731	308.15
36	22.0813	1009.1	92.6250	157.228	165.972	323.200	1.192	1.729	309.15
37	22.6340	1003.5	95.4260	158.986	164.101	323.087	1.198	1.727	310.15
38	23.1973	997.7	98.3180	160.758	162.197	322.955	1.203	1.724	311.15
39	23.7712	991.9	101.3080	162.544	160.259	322.803	1.209	1.722	312.15
40	24.3559	985.9	104.3990	164.347	158.284	322.630	1.214	1.720	313.15
41	24.9516	979.8	107.5980	166.165	156.270	322.436	1.220	1.717	314.15
42	25.5585	973.6	110.9100	168.001	154.217	322.218	1.225	1.715	315.15
43	26.1767	967.2	114.3410	169.855	152.121	321.976	1.231	1.712	316.15
44	26.8064	960.8	117.8990	171.729	149.979	321.708	1.237	1.710	317.15
45	27.4478	954.1	121.5910	173.623	147.790	321.413	1.243	1.707	318.15
46	28.1011	947.4	125.4260	175.539	145.550	321.089	1.248	1.704	319.15
47	28.7665	940.4	129.4130	177.478	143.256	320.734	1.254	1.702	320.15
48	29.4442	933.3	133.5630	179.441	140.904	320.346	1.260	1.699	321.15
49	30.1343	926.0	137.8870	181.432	138.491	319.922	1.266	1.696	322.15
50	30.8372	918.5	142.3980	183.451	136.010	319.461	1.272	1.693	323.15
51	31.5530	910.8	147.1100	185.501	133.459	318.959	1.278	1.690	324.15
52	32.2820	902.8	152.0420	187.584	130.829	318.413	1.284	1.687	325.15
53	33.0244	894.6	157.2110	189.703	128.116	317.819	1.291	1.683	326.15
54	33.7805	886.1	162.6390	191.862	125.311	317.173	1.297	1.680	327.15
55	34.5505	877.3	168.3520	194.064	122.406	316.470	1.303	1.676	328.15
56	35.3348	868.2	174.3790	196.314	119.391	315.705	1.310	1.673	329.15
57	36.1336	858.7	180.7550	198.617	116.253	314.869	1.317	1.669	330.15
58	36.9473	848.7	187.5220	200.978	112.978	313.957	1.324	1.665	331.15
59	37.7761	838.3	194.7300	203.406	109.550	312.957	1.331	1.660	332.15
60	38.6206	827.4	202.4400	205.910	105.948	311.858	1.338	1.656	333.15
61	39.4809	815.8	210.7290	208.500	102.146	310.645	1.345	1.651	334.15
62	40.3577	803.6	219.6950	211.191	98.110	309.301	1.353	1.646	335.15
63	41.2513	790.4	229.4660	214.002	93.799	307.801	1.361	1.640	336.15
64	42.1624	776.2	240.2130	216.958	89.156	306.114	1.369	1.634	337.15
65	43.0914	760.7	252.1770	220.094	84.101	304.195	1.378	1.627	338.15
66	44.0390	743.5	265.7130	223.460	78.519	301.980	1.388	1.620	339.15
67	45.0062	724.1	281.3770	227.140	72.228	299.368	1.398	1.611	340.15
68	45.9939	701.3	300.1390	231.272	64.915	296.187	1.410	1.600	341.15

KLEA 410A

Superheated Vapour Properties

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	0.7			0.8			0.9			1.0			1.1			1.2			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
-58	2.943	295.1	1.958																215.15
-56	2.912	296.5	1.964	3.345	296.0	1.947													217.15
-54	2.882	298.0	1.971	3.309	297.5	1.954	3.742	297.0	1.939										219.15
-52	2.852	299.5	1.978	3.275	299.0	1.961	3.702	298.5	1.946	4.133	298.0	1.932							221.15
-50	2.823	300.9	1.985	3.241	300.5	1.968	3.663	300.0	1.953	4.089	299.6	1.939	4.519	299.1	1.926				223.15
-48	2.795	302.4	1.991	3.208	302.0	1.974	3.625	301.5	1.959	4.046	301.1	1.946	4.471	300.6	1.933	4.900	300.2	1.922	225.15
-46	2.767	303.9	1.998	3.176	303.5	1.981	3.588	303.0	1.966	4.004	302.6	1.952	4.424	302.2	1.940	4.847	301.7	1.929	227.15
-44	2.740	305.4	2.004	3.144	305.0	1.987	3.552	304.5	1.973	3.963	304.1	1.959	4.378	303.7	1.947	4.796	303.3	1.935	229.15
-42	2.714	306.9	2.011	3.114	306.5	1.994	3.517	306.1	1.979	3.923	305.6	1.966	4.333	305.2	1.953	4.746	304.8	1.942	231.15
-40	2.688	308.4	2.017	3.084	308.0	2.000	3.482	307.6	1.986	3.884	307.2	1.972	4.289	306.8	1.960	4.697	306.4	1.949	233.15
-38	2.663	309.8	2.023	3.054	309.5	2.007	3.449	309.1	1.992	3.846	308.7	1.979	4.246	308.3	1.967	4.650	307.9	1.955	235.15
-36	2.638	311.3	2.030	3.026	311.0	2.013	3.416	310.6	1.999	3.809	310.2	1.985	4.205	309.8	1.973	4.604	309.5	1.962	237.15
-34	2.614	312.8	2.036	2.998	312.5	2.020	3.384	312.1	2.005	3.773	311.7	1.992	4.164	311.4	1.980	4.559	311.0	1.968	239.15
-32	2.590	314.3	2.042	2.970	314.0	2.026	3.352	313.6	2.011	3.737	313.3	1.998	4.124	312.9	1.986	4.514	312.6	1.975	241.15
-30	2.567	315.9	2.049	2.943	315.5	2.032	3.321	315.2	2.018	3.702	314.8	2.004	4.086	314.5	1.992	4.471	314.1	1.981	243.15
-28	2.544	317.4	2.055	2.917	317.0	2.038	3.291	316.7	2.024	3.668	316.4	2.011	4.048	316.0	1.999	4.429	315.7	1.988	245.15
-26	2.522	318.9	2.061	2.891	318.6	2.045	3.262	318.2	2.030	3.635	317.9	2.017	4.010	317.6	2.005	4.388	317.2	1.994	247.15
-24	2.500	320.4	2.067	2.867	320.1	2.051	3.233	319.8	2.036	3.602	319.4	2.023	3.974	319.1	2.011	4.348	318.8	2.000	249.15
-22	2.479	321.9	2.073	2.841	321.6	2.057	3.204	321.3	2.042	3.570	321.0	2.029	3.938	320.7	2.018	4.308	320.4	2.007	251.15
-20	2.458	323.4	2.079	2.816	323.1	2.063	3.177	322.8	2.049	3.539	322.5	2.036	3.903	322.2	2.024	4.270	321.9	2.013	253.15
-18	2.437	325.0	2.085	2.792	324.7	2.069	3.149	324.4	2.055	3.508	324.1	2.042	3.869	323.8	2.030	4.232	323.5	2.019	255.15
-16	2.417	326.5	2.091	2.769	326.2	2.075	3.123	325.9	2.061	3.478	325.6	2.048	3.836	325.4	2.036	4.195	325.1	2.025	257.15
-14	2.397	328.0	2.097	2.746	327.8	2.081	3.096	327.5	2.067	3.449	327.2	2.054	3.803	326.9	2.042	4.159	326.6	2.031	259.15
-12	2.377	329.6	2.103	2.723	329.3	2.087	3.071	329.0	2.073	3.420	328.8	2.060	3.771	328.5	2.048	4.123	328.2	2.037	261.15
-10	2.358	331.1	2.109	2.701	330.9	2.093	3.045	330.6	2.079	3.392	330.3	2.066	3.739	330.1	2.054	4.088	329.8	2.043	263.15
-8	2.339	332.7	2.115	2.679	332.4	2.099	3.021	332.2	2.085	3.364	331.9	2.072	3.708	331.6	2.060	4.054	331.4	2.049	265.15
-6	2.321	334.2	2.121	2.658	334.0	2.105	2.996	333.7	2.090	3.336	333.5	2.078	3.678	333.2	2.066	4.021	333.0	2.055	267.15
-4	2.302	335.8	2.126	2.637	335.6	2.110	2.972	335.3	2.096	3.309	335.1	2.084	3.648	334.8	2.072	3.988	334.6	2.061	269.15
-2	2.285	337.4	2.132	2.616	337.1	2.116	2.949	336.9	2.102	3.283	336.6	2.089	3.619	336.4	2.078	3.956	336.2	2.067	271.15
0	2.267	338.9	2.138	2.596	338.7	2.122	2.926	338.5	2.108	3.257	338.2	2.095	3.590	338.0	2.084	3.924	337.8	2.073	273.15
2	2.250	340.5	2.144	2.576	340.3	2.128	2.903	340.1	2.114	3.232	339.8	2.101	3.562	339.6	2.089	3.893	339.4	2.079	275.15
4	2.233	342.1	2.149	2.556	341.9	2.134	2.881	341.6	2.119	3.207	341.4	2.107	3.534	341.2	2.095	3.862	341.0	2.085	277.15
6	2.216	343.7	2.155	2.537	343.5	2.139	2.859	343.2	2.125	3.182	343.0	2.113	3.507	342.8	2.101	3.832	342.6	2.090	279.15
8	2.199	345.3	2.161	2.518	345.1	2.145	2.837	344.8	2.131	3.158	344.6	2.118	3.480	344.4	2.107	3.803	344.2	2.096	281.15
10	2.183	346.9	2.167	2.499	346.7	2.151	2.816	346.4	2.137	3.134	346.2	2.124	3.453	346.0	2.113	3.774	345.8	2.102	283.15
12	2.167	348.5	2.172	2.481	348.3	2.156	2.795	348.1	2.142	3.111	347.8	2.130	3.427	347.6	2.118	3.745	347.4	2.108	285.15
14	2.151	350.1	2.178	2.462	349.9	2.162	2.775	349.7	2.148	3.088	349.5	2.135	3.402	349.3	2.124	3.717	349.1	2.113	287.15
16	2.136	351.7	2.183	2.445	351.5	2.168	2.754	351.3	2.154	3.065	351.1	2.141	3.377	350.9	2.130	3.689	350.7	2.119	289.15
18	2.120	353.3	2.189	2.427	353.1	2.173	2.734	352.9	2.159	3.043	352.7	2.147	3.352	352.5	2.135	3.662	352.3	2.125	291.15
20	2.105	354.9	2.194	2.410	354.7	2.179	2.715	354.5	2.165	3.021	354.3	2.152	3.328	354.2	2.141	3.635	354.0	2.130	293.15

Table with 20 columns (Temp, D, H, S for pressures 1.3-1.8, Temp). Header: D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K). Absolute Pressure (bar). Temp (°C) and Temp (K).

Table with 20 columns (Temp, D, H, S for pressures 1.9-2.4, Temp). Header: D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K). Absolute Pressure (bar). Temp (°C) and Temp (K).

KLEA® 410A



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