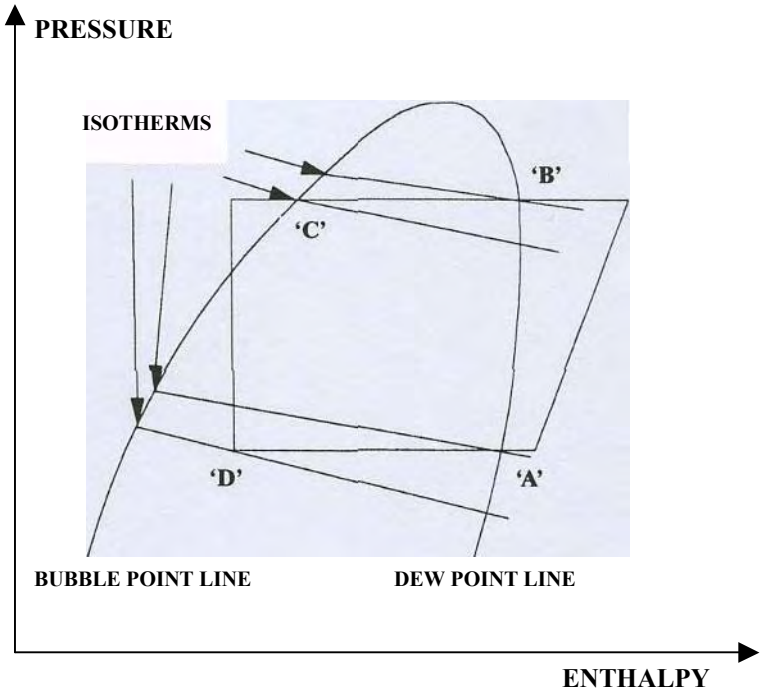
KLEA® 407C

Thermodynamic Property Data
SI Units

Mexichem
FLUOR

SYSTEM PERFORMANCE WITH ZEOTROPIC REFRIGERANT BLENDS

- With a zeotropic refrigerant blend the composition of the vapour changes in the evaporator and the condenser.
- Evaporator inlet and outlet temperatures are different.
- Condenser inlet and outlet temperatures are different.
- At all other points in the system the fluid behaves as normal.
- System design path.
    - Use the saturation properties (table 1) and the superheated vapour properties (table 2) for other properties around the cycle.



Pressure-Enthalpy Diagram for zeotropic Refrigerant Blends

KLEA 407C

Saturated Liquid and
Saturated Vapour Properties

KLEA 407C Saturation Properties vs Pressure — Table 1 Sheet 1

Pressure (bara)	Saturated Temperature		Density		Enthalpy		Entropy		Pressure (bara)
	Dew Point (°C)	Bubble Point (°C)	Liquid (kg/m³)	Vapour (kg/m³)	Liquid (kJ/kg)	Vapour (kJ/kg)	Liquid (kJ/kg.K)	Vapour (kJ/kg.K)	
0.70	-44.10	-51.41	1403.3	3.238	28.8	285.9	0.713	1.855	0.70
0.75	-42.79	-50.06	1399.3	3.453	30.6	286.8	0.721	1.852	0.75
0.80	-41.54	-48.79	1395.5	3.668	32.4	287.6	0.729	1.849	0.80
0.85	-40.35	-47.58	1391.8	3.882	34.1	288.4	0.737	1.847	0.85
0.90	-39.22	-46.43	1388.3	4.095	35.7	289.1	0.744	1.844	0.90
0.95	-38.14	-45.32	1385.0	4.308	37.2	289.8	0.750	1.842	0.95
1.00	-37.10	-44.26	1381.7	4.520	38.7	290.4	0.757	1.840	1.00
1.05	-36.09	-43.24	1378.6	4.731	40.1	291.1	0.763	1.838	1.05
1.10	-35.13	-42.26	1375.6	4.942	41.4	291.7	0.769	1.837	1.10
1.15	-34.20	-41.31	1372.7	5.152	42.7	292.3	0.774	1.835	1.15
1.20	-33.30	-40.39	1369.9	5.362	44.0	292.8	0.780	1.833	1.20
1.25	-32.43	-39.51	1367.2	5.571	45.2	293.4	0.785	1.832	1.25
1.30	-31.59	-38.65	1364.5	5.779	46.4	293.9	0.790	1.830	1.30
1.35	-30.77	-37.81	1361.9	5.988	47.5	294.4	0.795	1.829	1.35
1.40	-29.97	-37.01	1359.4	6.196	48.6	294.9	0.800	1.828	1.40
1.45	-29.20	-36.22	1356.9	6.403	49.7	295.4	0.804	1.827	1.45
1.50	-28.45	-35.45	1354.5	6.611	50.8	295.9	0.809	1.825	1.50
1.55	-27.72	-34.70	1352.2	6.817	51.8	296.4	0.813	1.824	1.55
1.60	-27.00	-33.98	1349.9	7.024	52.8	296.8	0.817	1.823	1.60
1.65	-26.30	-33.27	1347.7	7.230	53.8	297.3	0.821	1.822	1.65
1.70	-25.62	-32.57	1345.5	7.436	54.7	297.7	0.825	1.821	1.70
1.75	-24.96	-31.89	1343.3	7.642	55.7	298.1	0.829	1.820	1.75
1.80	-24.30	-31.23	1341.2	7.848	56.6	298.5	0.833	1.819	1.80
1.85	-23.67	-30.58	1339.1	8.053	57.5	298.9	0.836	1.818	1.85
1.90	-23.04	-29.94	1337.1	8.258	58.3	299.3	0.840	1.817	1.90
1.95	-22.43	-29.32	1335.1	8.463	59.2	299.7	0.843	1.816	1.95
2.00	-21.83	-28.71	1333.2	8.667	60.0	300.0	0.847	1.815	2.00
2.10	-20.67	-27.52	1329.4	9.076	61.7	300.8	0.853	1.814	2.10
2.20	-19.54	-26.38	1325.7	9.484	63.2	301.4	0.860	1.812	2.20
2.30	-18.46	-25.27	1322.1	9.891	64.7	302.1	0.866	1.811	2.30
2.40	-17.41	-24.21	1318.6	10.298	66.2	302.7	0.872	1.809	2.40

KLEA 407C Saturation Properties vs Pressure — Table 1 Sheet 2

Pressure (bara)	Saturated Temperature		Density		Enthalpy		Entropy		Pressure (bara)
	Dew Point (°C)	Bubble Point (°C)	Liquid (kg/m³)	Vapour (kg/m³)	Liquid (kJ/kg)	Vapour (kJ/kg)	Liquid (kJ/kg.K)	Vapour (kJ/kg.K)	
2.50	-16.40	-23.17	1315.2	10.705	67.6	303.4	0.877	1.808	2.50
2.60	-15.41	-22.17	1311.9	11.110	69.0	304.0	0.883	1.807	2.60
2.70	-14.46	-21.20	1308.7	11.516	70.4	304.5	0.888	1.806	2.70
2.80	-13.53	-20.25	1305.6	11.921	71.7	305.1	0.893	1.804	2.80
2.90	-12.63	-19.33	1302.5	12.326	72.9	305.6	0.898	1.803	2.90
3.00	-11.75	-18.43	1299.5	12.730	74.2	306.2	0.903	1.802	3.00
3.10	-10.89	-17.56	1296.6	13.135	75.4	306.7	0.908	1.801	3.10
3.20	-10.05	-16.71	1293.8	13.539	76.6	307.2	0.912	1.800	3.20
3.30	-9.24	-15.88	1291.0	13.943	77.7	307.6	0.917	1.799	3.30
3.40	-8.44	-15.06	1288.2	14.346	78.8	308.1	0.921	1.799	3.40
3.50	-7.66	-14.27	1285.5	14.750	79.9	308.6	0.925	1.798	3.50
3.60	-6.90	-13.49	1282.9	15.154	81.0	309.0	0.930	1.797	3.60
3.70	-6.15	-12.73	1280.3	15.557	82.1	309.4	0.934	1.796	3.70
3.80	-5.42	-11.98	1277.7	15.961	83.1	309.9	0.938	1.795	3.80
3.90	-4.71	-11.25	1275.2	16.364	84.1	310.3	0.941	1.794	3.90
4.00	-4.00	-10.54	1272.7	16.768	85.1	310.7	0.945	1.794	4.00
4.10	-3.32	-9.83	1270.3	17.171	86.1	311.1	0.949	1.793	4.10
4.20	-2.64	-9.14	1267.9	17.575	87.1	311.5	0.953	1.792	4.20
4.30	-1.98	-8.47	1265.5	17.978	88.0	311.8	0.956	1.792	4.30
4.40	-1.32	-7.80	1263.2	18.382	89.0	312.2	0.960	1.791	4.40
4.50	-0.68	-7.15	1260.9	18.786	89.9	312.6	0.963	1.790	4.50
4.60	-0.05	-6.50	1258.6	19.190	90.8	312.9	0.966	1.790	4.60
4.70	0.57	-5.87	1256.4	19.594	91.7	313.3	0.970	1.789	4.70
4.80	1.18	-5.25	1254.1	19.998	92.6	313.6	0.973	1.788	4.80
4.90	1.78	-4.63	1252.0	20.403	93.4	313.9	0.976	1.788	4.90
5.00	2.37	-4.03	1249.8	20.808	94.3	314.3	0.979	1.787	5.00
5.10	2.95	-3.44	1247.7	21.212	95.1	314.6	0.982	1.787	5.10
5.20	3.52	-2.85	1245.6	21.617	95.9	314.9	0.985	1.786	5.20

KLEA 407C Saturation Properties vs Pressure — Table 1 Sheet 3

Pressure (bara)	Saturated Temperature		Density		Enthalpy		Entropy		Pressure (bara)
	Dew Point (°C)	Bubble Point (°C)	Liquid (kg/m³)	Vapour (kg/m³)	Liquid (kJ/kg)	Vapour (kJ/kg)	Liquid (kJ/kg.K)	Vapour (kJ/kg.K)	
5.30	4.09	-2.27	1243.5	22.023	96.8	315.2	0.988	1.786	5.30
5.40	4.64	-1.70	1241.4	22.428	97.6	315.5	0.991	1.785	5.40
5.50	5.19	-1.14	1239.4	22.834	98.4	315.8	0.994	1.784	5.50
5.60	5.73	-0.59	1237.4	23.240	99.2	316.1	0.997	1.784	5.60
5.70	6.26	-0.04	1235.4	23.646	99.9	316.4	1.000	1.783	5.70
5.80	6.79	0.49	1233.4	24.053	100.7	316.6	1.003	1.783	5.80
5.90	7.31	1.03	1231.5	24.460	101.5	316.9	1.005	1.782	5.90
6.00	7.82	1.55	1229.5	24.867	102.2	317.2	1.008	1.782	6.00
6.50	10.29	4.08	1220.1	26.908	105.8	318.5	1.021	1.780	6.50
7.00	12.62	6.47	1211.1	28.957	109.3	319.7	1.033	1.778	7.00
7.50	14.82	8.73	1202.4	31.017	112.6	320.8	1.045	1.776	7.50
8.00	16.92	10.87	1194.0	33.088	115.7	321.8	1.056	1.774	8.00
8.50	18.91	12.93	1185.9	35.171	118.8	322.7	1.066	1.772	8.50
9.00	20.82	14.89	1178.1	37.266	121.7	323.6	1.076	1.770	9.00
9.50	22.65	16.77	1170.4	39.375	124.5	324.4	1.086	1.768	9.50
10.00	24.40	18.58	1162.9	41.497	127.3	325.2	1.095	1.767	10.00
10.50	26.09	20.32	1155.6	43.635	129.9	325.9	1.104	1.765	10.50
11.00	27.72	22.00	1148.5	45.789	132.5	326.5	1.113	1.764	11.00
11.50	29.29	23.62	1141.5	47.958	135.0	327.1	1.121	1.762	11.50
12.00	30.81	25.19	1134.6	50.145	137.4	327.7	1.129	1.761	12.00
12.50	32.28	26.72	1127.8	52.349	139.8	328.3	1.137	1.759	12.50
13.00	33.71	28.19	1121.1	54.571	142.2	328.8	1.144	1.758	13.00
13.50	35.10	29.63	1114.5	56.812	144.5	329.2	1.152	1.757	13.50
14.00	36.44	31.03	1108.0	59.073	146.7	329.7	1.159	1.755	14.00
14.50	37.75	32.39	1101.5	61.354	148.9	330.1	1.166	1.754	14.50
15.00	39.03	33.71	1095.1	63.656	151.1	330.4	1.173	1.752	15.00
15.50	40.27	35.01	1088.8	65.979	153.3	330.8	1.180	1.751	15.50
16.00	41.48	36.27	1082.5	68.325	155.4	331.1	1.186	1.750	16.00
16.50	42.67	37.50	1076.3	70.693	157.4	331.4	1.193	1.748	16.50
17.00	43.82	38.71	1070.0	73.086	159.5	331.7	1.199	1.747	17.00

KLEA 407C Saturation Properties vs Pressure — Table 1 Sheet 4

Pressure (bara)	Saturated Temperature		Density		Enthalpy		Entropy		Pressure (bara)
	Dew Point (°C)	Bubble Point (°C)	Liquid (kg/m³)	Vapour (kg/m³)	Liquid (kJ/kg)	Vapour (kJ/kg)	Liquid (kJ/kg.K)	Vapour (kJ/kg.K)	
17.50	44.95	39.89	1063.9	75.503	161.5	331.9	1.206	1.746	17.50
18.00	46.05	41.04	1057.7	77.946	163.5	332.1	1.212	1.744	18.00
18.50	47.13	42.18	1051.5	80.414	165.5	332.3	1.218	1.743	18.50
19.00	48.19	43.28	1045.4	82.910	167.4	332.5	1.224	1.742	19.00
19.50	49.23	44.37	1039.2	85.433	169.3	332.6	1.230	1.740	19.50
20.00	50.24	45.44	1033.1	87.985	171.2	332.8	1.235	1.739	20.00
20.50	51.24	46.49	1026.9	90.568	173.1	332.9	1.241	1.737	20.50
21.00	52.21	47.52	1020.7	93.180	175.0	333.0	1.247	1.736	21.00
21.50	53.17	48.53	1014.5	95.825	176.9	333.0	1.253	1.735	21.50
22.00	54.11	49.52	1008.2	98.502	178.7	333.1	1.258	1.733	22.00
22.50	55.03	50.50	1001.9	101.214	180.6	333.1	1.264	1.732	22.50
23.00	55.94	51.46	995.5	103.961	182.4	333.1	1.269	1.730	23.00
23.50	56.83	52.40	989.1	106.744	184.2	333.1	1.274	1.729	23.50
24.00	57.71	53.34	982.6	109.565	186.0	333.1	1.280	1.727	24.00
24.50	58.57	54.25	976.0	112.425	187.8	333.0	1.285	1.726	24.50
25.00	59.42	55.16	969.3	115.326	189.6	332.9	1.290	1.724	25.00

KLEA 407C

Superheated Vapour Properties

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 1

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	0.7			0.8			0.9			1.01325			1.1			1.2			
	Dew Point -44.10C			Dew Point -41.54C			Dew Point -39.22C			Dew Point -36.83C			Dew Point -35.13C			Dew Point -33.30C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
-44	3.236	286.0	1.855																-44
-42	3.207	287.5	1.861																-42
-40	3.177	288.9	1.867	3.642	288.7	1.854													-40
-38	3.149	290.3	1.873	3.609	290.1	1.860	4.073	290.0	1.848										-38
-36	3.121	291.8	1.880	3.577	291.6	1.866	4.036	291.4	1.854	4.559	291.2	1.842							-36
-34	3.093	293.2	1.886	3.545	293.1	1.872	3.999	292.9	1.861	4.517	292.7	1.849	4.916	292.5	1.840				-34
-32	3.066	294.7	1.892	3.514	294.5	1.878	3.964	294.3	1.867	4.477	294.1	1.855	4.872	294.0	1.846	5.330	293.8	1.837	-32
-30	3.040	296.2	1.898	3.483	296.0	1.885	3.929	295.8	1.873	4.437	295.6	1.861	4.828	295.5	1.852	5.282	295.3	1.844	-30
-28	3.014	297.6	1.904	3.453	297.5	1.891	3.895	297.3	1.879	4.398	297.1	1.867	4.786	297.0	1.858	5.235	296.8	1.850	-28
-26	2.988	299.1	1.910	3.423	299.0	1.897	3.861	298.8	1.885	4.360	298.6	1.873	4.744	298.4	1.865	5.189	298.3	1.856	-26
-24	2.963	300.6	1.916	3.394	300.4	1.903	3.828	300.3	1.891	4.322	300.1	1.879	4.703	299.9	1.871	5.143	299.8	1.862	-24
-22	2.938	302.1	1.922	3.366	301.9	1.909	3.796	301.8	1.897	4.285	301.6	1.885	4.662	301.4	1.877	5.099	301.3	1.868	-22
-20	2.914	303.6	1.928	3.338	303.4	1.915	3.764	303.3	1.903	4.249	303.1	1.891	4.623	303.0	1.883	5.055	302.8	1.874	-20
-18	2.890	305.1	1.934	3.310	305.0	1.921	3.733	304.8	1.909	4.213	304.6	1.897	4.584	304.5	1.889	5.012	304.3	1.880	-18
-16	2.866	306.6	1.940	3.283	306.5	1.926	3.702	306.3	1.915	4.178	306.1	1.903	4.545	306.0	1.895	4.970	305.8	1.886	-16
-14	2.843	308.2	1.946	3.256	308.0	1.932	3.672	307.8	1.921	4.144	307.7	1.909	4.508	307.5	1.900	4.929	307.4	1.892	-14
-12	2.820	309.7	1.952	3.230	309.5	1.938	3.642	309.4	1.926	4.110	309.2	1.915	4.471	309.1	1.906	4.888	308.9	1.898	-12
-10	2.798	311.2	1.957	3.204	311.1	1.944	3.613	310.9	1.932	4.077	310.7	1.920	4.434	310.6	1.912	4.848	310.5	1.903	-10
-8	2.776	312.8	1.963	3.179	312.6	1.950	3.584	312.5	1.938	4.044	312.3	1.926	4.399	312.2	1.918	4.809	312.0	1.909	-8
-6	2.754	314.3	1.969	3.154	314.2	1.956	3.556	314.0	1.944	4.012	313.8	1.932	4.364	313.7	1.924	4.770	313.6	1.915	-6
-4	2.733	315.9	1.975	3.130	315.7	1.962	3.528	315.6	1.950	3.981	315.4	1.938	4.329	315.3	1.930	4.732	315.1	1.921	-4
-2	2.712	317.4	1.981	3.106	317.3	1.967	3.500	317.1	1.956	3.950	317.0	1.944	4.295	316.8	1.936	4.695	316.7	1.927	-2
0	2.692	319.0	1.986	3.082	318.9	1.973	3.474	318.7	1.961	3.919	318.5	1.950	4.262	318.4	1.941	4.658	318.3	1.933	0
2	2.671	320.6	1.992	3.058	320.4	1.979	3.447	320.3	1.967	3.889	320.1	1.955	4.229	320.0	1.947	4.622	319.9	1.938	2
4	2.651	322.2	1.998	3.035	322.0	1.985	3.421	321.9	1.973	3.859	321.7	1.961	4.196	321.6	1.953	4.586	321.5	1.944	4
6	2.632	323.7	2.004	3.013	323.6	1.990	3.395	323.5	1.979	3.830	323.3	1.967	4.165	323.2	1.959	4.551	323.0	1.950	6
8	2.612	325.3	2.009	2.990	325.2	1.996	3.370	325.1	1.984	3.802	324.9	1.973	4.133	324.8	1.964	4.517	324.7	1.956	8
10	2.593	326.9	2.015	2.968	326.8	2.002	3.345	326.7	1.990	3.773	326.5	1.978	4.102	326.4	1.970	4.483	326.3	1.961	10
12	2.574	328.6	2.021	2.947	328.4	2.007	3.321	328.3	1.996	3.745	328.1	1.984	4.072	328.0	1.976	4.450	327.9	1.967	12
14	2.556	330.2	2.026	2.925	330.0	2.013	3.296	329.9	2.001	3.718	329.7	1.990	4.042	329.6	1.981	4.417	329.5	1.973	14
16	2.537	331.8	2.032	2.904	331.7	2.019	3.273	331.5	2.007	3.691	331.4	1.995	4.013	331.3	1.987	4.384	331.1	1.978	16
18	2.519	333.4	2.037	2.884	333.3	2.024	3.249	333.2	2.013	3.664	333.0	2.001	3.984	332.9	1.993	4.353	332.8	1.984	18
20	2.502	335.1	2.043	2.863	334.9	2.030	3.226	334.8	2.018	3.638	334.6	2.006	3.955	334.5	1.998	4.321	334.4	1.990	20
25	2.458	339.2	2.057	2.814	339.0	2.044	3.170	338.9	2.032	3.574	338.8	2.020	3.885	338.7	2.012	4.245	338.5	2.004	25
30	2.417	343.3	2.071	2.766	343.2	2.058	3.116	343.1	2.046	3.513	342.9	2.034	3.818	342.8	2.026	4.171	342.7	2.017	30
35	2.376	347.5	2.085	2.719	347.4	2.071	3.063	347.3	2.060	3.454	347.1	2.048	3.753	347.0	2.040	4.100	346.9	2.031	35
40	2.337	351.8	2.098	2.674	351.6	2.085	3.012	351.5	2.073	3.396	351.4	2.062	3.691	351.3	2.054	4.031	351.2	2.045	40
45	2.300	356.0	2.112	2.631	355.9	2.099	2.963	355.8	2.087	3.341	355.7	2.075	3.630	355.6	2.067	3.965	355.5	2.059	45
50	2.263	360.4	2.125	2.589	360.2	2.112	2.916	360.1	2.100	3.287	360.0	2.089	3.572	359.9	2.081	3.901	359.8	2.072	50

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 2

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	1.3			1.4			1.5			1.6			1.7			1.8			
	Dew Point -31.59C			Dew Point -29.97C			Dew Point -28.45C			Dew Point -27.00C			Dew Point -25.62C			Dew Point -24.30C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
-30	5.738	295.1	1.835																-30
-28	5.686	296.6	1.841	6.140	296.4	1.834	6.597	296.2	1.827										-28
-26	5.636	298.1	1.848	6.085	297.9	1.840	6.537	297.7	1.833	6.992	297.6	1.826							-26
-24	5.586	299.6	1.854	6.031	299.4	1.846	6.479	299.3	1.839	6.929	299.1	1.832	7.382	298.9	1.826	7.837	298.7	1.820	-24
-22	5.537	301.1	1.860	5.978	300.9	1.852	6.422	300.8	1.845	6.867	300.6	1.838	7.315	300.4	1.832	7.766	300.3	1.826	-22
-20	5.490	302.6	1.866	5.926	302.5	1.858	6.366	302.3	1.851	6.807	302.1	1.844	7.250	302.0	1.838	7.696	301.8	1.832	-20
-18	5.443	304.1	1.872	5.875	304.0	1.864	6.310	303.8	1.857	6.747	303.6	1.850	7.187	303.5	1.844	7.628	303.3	1.838	-18
-16	5.397	305.7	1.878	5.825	305.5	1.870	6.256	305.3	1.863	6.689	305.2	1.856	7.124	305.0	1.850	7.561	304.9	1.844	-16
-14	5.351	307.2	1.884	5.776	307.0	1.876	6.203	306.9	1.869	6.632	306.7	1.862	7.063	306.6	1.856	7.496	306.4	1.850	-14
-12	5.307	308.7	1.889	5.728	308.6	1.882	6.151	308.4	1.875	6.576	308.3	1.868	7.003	308.1	1.862	7.431	307.9	1.856	-12
-10	5.263	310.3	1.895	5.680	310.1	1.888	6.100	310.0	1.881	6.521	309.8	1.874	6.943	309.7	1.868	7.368	309.5	1.862	-10
-8	5.220	311.9	1.901	5.634	311.7	1.894	6.049	311.5	1.887	6.466	311.4	1.880	6.885	311.2	1.874	7.306	311.1	1.868	-8
-6	5.178	313.4	1.907	5.588	313.3	1.900	6.000	313.1	1.893	6.413	313.0	1.886	6.828	312.8	1.880	7.245	312.6	1.874	-6
-4	5.137	315.0	1.913	5.543	314.8	1.905	5.951	314.7	1.898	6.361	314.5	1.892	6.772	314.4	1.886	7.186	314.2	1.880	-4
-2	5.096	316.6	1.919	5.499	316.4	1.911	5.903	316.3	1.904	6.309	316.1	1.898	6.717	316.0	1.891	7.127	315.8	1.885	-2
0	5.056	318.1	1.925	5.455	318.0	1.917	5.856	317.8	1.910	6.259	317.7	1.903	6.663	317.5	1.897	7.069	317.4	1.891	0
2	5.016	319.7	1.930	5.412	319.6	1.923	5.810	319.4	1.916	6.209	319.3	1.909	6.610	319.1	1.903	7.012	319.0	1.897	2
4	4.978	321.3	1.936	5.370	321.2	1.929	5.765	321.0	1.922	6.160	320.9	1.915	6.558	320.7	1.909	6.957	320.6	1.903	4
6	4.939	322.9	1.942	5.329	322.8	1.934	5.720	322.6	1.927	6.112	322.5	1.921	6.506	322.3	1.915	6.902	322.2	1.909	6
8	4.902	324.5	1.948	5.288	324.4	1.940	5.676	324.2	1.933	6.065	324.1	1.927	6.456	323.9	1.920	6.848	323.8	1.914	8
10	4.865	326.1	1.953	5.248	326.0	1.946	5.633	325.8	1.939	6.019	325.7	1.932	6.406	325.6	1.926	6.795	325.4	1.920	10
12	4.828	327.7	1.959	5.209	327.6	1.951	5.590	327.5	1.945	5.973	327.3	1.938	6.357	327.2	1.932	6.743	327.1	1.926	12
14	4.793	329.4	1.965	5.170	329.2	1.957	5.548	329.1	1.950	5.928	329.0	1.944	6.309	328.8	1.937	6.691	328.7	1.932	14
16	4.757	331.0	1.970	5.132	330.9	1.963	5.507	330.7	1.956	5.884	330.6	1.949	6.262	330.5	1.943	6.641	330.3	1.937	16
18	4.723	332.6	1.976	5.094	332.5	1.968	5.466	332.4	1.962	5.840	332.2	1.955	6.215	332.1	1.949	6.591	332.0	1.943	18
20	4.688	334.3	1.982	5.057	334.1	1.974	5.426	334.0	1.967	5.797	333.9	1.961	6.169	333.7	1.954	6.542	333.6	1.949	20
25	4.605	338.4	1.996	4.967	338.3	1.988	5.329	338.2	1.981	5.693	338.0	1.975	6.058	337.9	1.969	6.423	337.8	1.963	25
30	4.525	342.6	2.009	4.880	342.5	2.002	5.235	342.3	1.995	5.592	342.2	1.989	5.950	342.1	1.982	6.309	342.0	1.977	30
35	4.447	346.8	2.023	4.796	346.7	2.016	5.145	346.6	2.009	5.495	346.4	2.002	5.847	346.3	1.996	6.199	346.2	1.991	35
40	4.373	351.1	2.037	4.715	350.9	2.030	5.058	350.8	2.023	5.402	350.7	2.016	5.747	350.6	2.010	6.093	350.5	2.004	40
45	4.301	355.4	2.051	4.637	355.2	2.043	4.974	355.1	2.036	5.312	355.0	2.030	5.651	354.9	2.024	5.990	354.8	2.018	45
50	4.231	359.7	2.064	4.561	359.6	2.057	4.893	359.5	2.050	5.225	359.4	2.043	5.558	359.2	2.037	5.891	359.1	2.031	50
55	4.163	364.1	2.078	4.488	364.0	2.070	4.814	363.8	2.063	5.141	363.7	2.057	5.468	363.6	2.051	5.796	363.5	2.045	55
60	4.098	368.5	2.091	4.418	368.4	2.083	4.738	368.3	2.077	5.059	368.2	2.070	5.381	368.1	2.064	5.703	367.9	2.058	60
65	4.035	372.9	2.104	4.350	372.8	2.097	4.665	372.7	2.090	4.980	372.6	2.083	5.297	372.5	2.077	5.614	372.4	2.072	65
70	3.974	377.4	2.117	4.283	377.3	2.110	4.594	377.2	2.103	4.904	377.1	2.097	5.216	377.0	2.091	5.527	376.9	2.085	70
75	3.915	382.0	2.130	4.219	381.9	2.123	4.525	381.8	2.116	4.830	381.7	2.110	5.137	381.6	2.104	5.444	381.5	2.098	75
80	3.857	386.5	2.143	4.157	386.4	2.136	4.458	386.3	2.129	4.759	386.2	2.123	5.060	386.1	2.117	5.362	386.0	2.111	80
85	3.801	391.1	2.156	4.097	391.0	2.149	4.393	390.9	2.142	4.689	390.9	2.136	4.986	390.8	2.130	5.284	390.7	2.124	85

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 3

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	1.9			2.0			2.1			2.2			2.3			2.4			
	Dew Point -23.04C			Dew Point -21.83C			Dew Point -20.67C			Dew Point -19.54C			Dew Point -18.46C			Dew Point -17.41C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
-22	8.219	300.1	1.820																-22
-20	8.145	301.6	1.826	8.595	301.4	1.821	9.048	301.3	1.816										-20
-18	8.072	303.1	1.832	8.518	303.0	1.827	8.967	302.8	1.822	9.417	302.6	1.817	9.871	302.5	1.812				-18
-16	8.001	304.7	1.838	8.442	304.5	1.833	8.886	304.4	1.828	9.332	304.2	1.823	9.781	304.0	1.818	10.232	303.8	1.814	-16
-14	7.931	306.2	1.844	8.368	306.1	1.839	8.808	305.9	1.834	9.249	305.7	1.829	9.693	305.6	1.824	10.139	305.4	1.820	-14
-12	7.862	307.8	1.850	8.295	307.6	1.845	8.730	307.5	1.840	9.168	307.3	1.835	9.607	307.1	1.830	10.049	307.0	1.826	-12
-10	7.795	309.3	1.856	8.224	309.2	1.851	8.655	309.0	1.846	9.088	308.9	1.841	9.523	308.7	1.836	9.960	308.5	1.832	-10
-8	7.729	310.9	1.862	8.154	310.8	1.857	8.580	310.6	1.852	9.009	310.4	1.847	9.440	310.3	1.842	9.872	310.1	1.838	-8
-6	7.664	312.5	1.868	8.085	312.3	1.863	8.508	312.2	1.858	8.932	312.0	1.853	9.359	311.9	1.848	9.787	311.7	1.844	-6
-4	7.601	314.1	1.874	8.017	313.9	1.869	8.436	313.8	1.864	8.856	313.6	1.859	9.279	313.4	1.854	9.703	313.3	1.850	-4
-2	7.538	315.6	1.880	7.951	315.5	1.875	8.366	315.3	1.869	8.782	315.2	1.865	9.201	315.0	1.860	9.621	314.9	1.855	-2
0	7.477	317.2	1.886	7.886	317.1	1.880	8.297	316.9	1.875	8.709	316.8	1.870	9.124	316.6	1.866	9.540	316.5	1.861	0
2	7.416	318.8	1.892	7.822	318.7	1.886	8.229	318.5	1.881	8.638	318.4	1.876	9.048	318.2	1.872	9.461	318.1	1.867	2
4	7.357	320.4	1.897	7.759	320.3	1.892	8.162	320.1	1.887	8.568	320.0	1.882	8.974	319.8	1.878	9.383	319.7	1.873	4
6	7.299	322.0	1.903	7.697	321.9	1.898	8.097	321.8	1.893	8.499	321.6	1.888	8.902	321.5	1.883	9.306	321.3	1.879	6
8	7.241	323.7	1.909	7.636	323.5	1.904	8.033	323.4	1.899	8.431	323.2	1.894	8.830	323.1	1.889	9.231	322.9	1.885	8
10	7.185	325.3	1.915	7.577	325.1	1.909	7.970	325.0	1.904	8.364	324.9	1.900	8.760	324.7	1.895	9.157	324.6	1.890	10
12	7.130	326.9	1.920	7.518	326.8	1.915	7.907	326.6	1.910	8.298	326.5	1.905	8.691	326.4	1.901	9.085	326.2	1.896	12
14	7.075	328.5	1.926	7.460	328.4	1.921	7.846	328.3	1.916	8.234	328.1	1.911	8.623	328.0	1.906	9.013	327.9	1.902	14
16	7.021	330.2	1.932	7.403	330.0	1.927	7.786	329.9	1.922	8.171	329.8	1.917	8.556	329.6	1.912	8.943	329.5	1.908	16
18	6.969	331.8	1.937	7.347	331.7	1.932	7.727	331.6	1.927	8.108	331.4	1.922	8.491	331.3	1.918	8.874	331.2	1.913	18
20	6.917	333.5	1.943	7.292	333.4	1.938	7.669	333.2	1.933	8.047	333.1	1.928	8.426	332.9	1.923	8.807	332.8	1.919	20
25	6.790	337.6	1.957	7.158	337.5	1.952	7.528	337.4	1.947	7.898	337.3	1.942	8.269	337.1	1.938	8.642	337.0	1.933	25
30	6.669	341.8	1.971	7.030	341.7	1.966	7.392	341.6	1.961	7.755	341.5	1.956	8.119	341.3	1.952	8.484	341.2	1.947	30
35	6.552	346.1	1.985	6.906	346.0	1.980	7.261	345.8	1.975	7.617	345.7	1.970	7.974	345.6	1.965	8.332	345.5	1.961	35
40	6.439	350.4	1.999	6.787	350.2	1.994	7.135	350.1	1.989	7.484	350.0	1.984	7.834	349.9	1.979	8.186	349.8	1.975	40
45	6.330	354.7	2.012	6.672	354.5	2.007	7.014	354.4	2.002	7.356	354.3	1.998	7.700	354.2	1.993	8.045	354.1	1.989	45
50	6.225	359.0	2.026	6.561	358.9	2.021	6.896	358.8	2.016	7.233	358.7	2.011	7.571	358.6	2.007	7.909	358.4	2.002	50
55	6.124	363.4	2.040	6.453	363.3	2.034	6.783	363.2	2.029	7.114	363.1	2.025	7.445	363.0	2.020	7.778	362.9	2.016	55
60	6.026	367.8	2.053	6.350	367.7	2.048	6.674	367.6	2.043	6.999	367.5	2.038	7.325	367.4	2.034	7.651	367.3	2.029	60
65	5.931	372.3	2.066	6.250	372.2	2.061	6.569	372.1	2.056	6.888	372.0	2.051	7.208	371.9	2.047	7.529	371.8	2.043	65
70	5.840	376.8	2.079	6.153	376.7	2.074	6.466	376.6	2.069	6.781	376.5	2.065	7.095	376.4	2.060	7.411	376.3	2.056	70
75	5.751	381.4	2.093	6.059	381.3	2.087	6.368	381.2	2.083	6.677	381.1	2.078	6.986	381.0	2.073	7.296	380.9	2.069	75
80	5.665	385.9	2.106	5.968	385.8	2.101	6.272	385.7	2.096	6.576	385.7	2.091	6.881	385.6	2.086	7.186	385.5	2.082	80
85	5.582	390.6	2.119	5.880	390.5	2.114	6.179	390.4	2.109	6.478	390.3	2.104	6.778	390.2	2.099	7.078	390.1	2.095	85
90	5.501	395.2	2.132	5.795	395.1	2.126	6.089	395.0	2.122	6.384	395.0	2.117	6.679	394.9	2.112	6.975	394.8	2.108	90
95	5.422	399.9	2.144	5.712	399.8	2.139	6.002	399.7	2.134	6.292	399.7	2.130	6.583	399.6	2.125	6.874	399.5	2.121	95
100	5.346	404.7	2.157	5.632	404.6	2.152	5.917	404.5	2.147	6.203	404.4	2.143	6.489	404.3	2.138	6.776	404.2	2.134	100
105	5.272	409.4	2.170	5.553	409.4	2.165	5.835	409.3	2.160	6.117	409.2	2.155	6.399	409.1	2.151	6.681	409.0	2.147	105

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 4

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	2.5			2.6			2.7			2.8			2.9			3.0			
	Dew Point -16.40C			Dew Point -15.41C			Dew Point -14.46C			Dew Point -13.53C			Dew Point -12.63C			Dew Point -11.75C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
-16	10.685	303.7	1.809																-16
-14	10.588	305.2	1.815	11.038	305.1	1.811	11.492	304.9	1.807										-14
-12	10.492	306.8	1.821	10.938	306.6	1.817	11.387	306.5	1.813	11.837	306.3	1.809	12.290	306.1	1.805				-12
-10	10.399	308.4	1.827	10.840	308.2	1.823	11.284	308.0	1.819	11.729	307.9	1.815	12.177	307.7	1.811	12.628	307.5	1.808	-10
-8	10.307	310.0	1.833	10.744	309.8	1.829	11.183	309.6	1.825	11.624	309.5	1.821	12.067	309.3	1.817	12.513	309.1	1.814	-8
-6	10.217	311.5	1.839	10.650	311.4	1.835	11.084	311.2	1.831	11.521	311.1	1.827	11.959	310.9	1.823	12.400	310.7	1.820	-6
-4	10.129	313.1	1.845	10.557	313.0	1.841	10.987	312.8	1.837	11.419	312.7	1.833	11.853	312.5	1.829	12.289	312.3	1.826	-4
-2	10.043	314.7	1.851	10.467	314.6	1.847	10.892	314.4	1.843	11.320	314.3	1.839	11.749	314.1	1.835	12.181	313.9	1.832	-2
0	9.958	316.3	1.857	10.378	316.2	1.853	10.799	316.0	1.849	11.222	315.9	1.845	11.648	315.7	1.841	12.075	315.6	1.838	0
2	9.875	317.9	1.863	10.290	317.8	1.859	10.708	317.6	1.855	11.127	317.5	1.851	11.548	317.3	1.847	11.971	317.2	1.843	2
4	9.793	319.6	1.869	10.205	319.4	1.865	10.618	319.3	1.861	11.033	319.1	1.857	11.450	318.9	1.853	11.869	318.8	1.849	4
6	9.713	321.2	1.875	10.120	321.0	1.870	10.530	320.9	1.866	10.941	320.7	1.863	11.354	320.6	1.859	11.768	320.4	1.855	6
8	9.634	322.8	1.880	10.038	322.7	1.876	10.443	322.5	1.872	10.851	322.4	1.868	11.260	322.2	1.865	11.670	322.1	1.861	8
10	9.556	324.4	1.886	9.957	324.3	1.882	10.359	324.1	1.878	10.762	324.0	1.874	11.167	323.8	1.870	11.574	323.7	1.867	10
12	9.480	326.1	1.892	9.877	325.9	1.888	10.275	325.8	1.884	10.675	325.6	1.880	11.076	325.5	1.876	11.479	325.4	1.873	12
14	9.405	327.7	1.898	9.799	327.6	1.894	10.193	327.4	1.890	10.589	327.3	1.886	10.987	327.1	1.882	11.386	327.0	1.878	14
16	9.332	329.4	1.903	9.722	329.2	1.899	10.113	329.1	1.895	10.505	328.9	1.891	10.899	328.8	1.888	11.294	328.7	1.884	16
18	9.260	331.0	1.909	9.646	330.9	1.905	10.034	330.7	1.901	10.423	330.6	1.897	10.813	330.5	1.893	11.205	330.3	1.890	18
20	9.188	332.7	1.915	9.571	332.5	1.911	9.956	332.4	1.907	10.341	332.3	1.903	10.728	332.1	1.899	11.117	332.0	1.896	20
25	9.016	336.9	1.929	9.391	336.7	1.925	9.767	336.6	1.921	10.144	336.5	1.917	10.523	336.3	1.913	10.903	336.2	1.910	25
30	8.850	341.1	1.943	9.217	341.0	1.939	9.586	340.8	1.935	9.955	340.7	1.931	10.326	340.6	1.927	10.698	340.4	1.924	30
35	8.691	345.3	1.957	9.051	345.2	1.953	9.412	345.1	1.949	9.774	345.0	1.945	10.137	344.8	1.941	10.501	344.7	1.938	35
40	8.538	349.6	1.971	8.890	349.5	1.967	9.244	349.4	1.963	9.599	349.3	1.959	9.955	349.1	1.955	10.312	349.0	1.952	40
45	8.390	354.0	1.984	8.736	353.8	1.980	9.083	353.7	1.977	9.431	353.6	1.973	9.780	353.5	1.969	10.130	353.4	1.966	45
50	8.248	358.3	1.998	8.588	358.2	1.994	8.928	358.1	1.990	9.270	358.0	1.986	9.612	357.9	1.983	9.955	357.8	1.979	50
55	8.111	362.7	2.012	8.444	362.6	2.008	8.779	362.5	2.004	9.114	362.4	2.000	9.450	362.3	1.996	9.786	362.2	1.993	55
60	7.978	367.2	2.025	8.306	367.1	2.021	8.634	367.0	2.017	8.963	366.9	2.013	9.293	366.8	2.010	9.624	366.6	2.006	60
65	7.850	371.7	2.038	8.172	371.6	2.034	8.495	371.5	2.031	8.818	371.4	2.027	9.142	371.2	2.023	9.467	371.1	2.020	65
70	7.727	376.2	2.052	8.043	376.1	2.048	8.360	376.0	2.044	8.678	375.9	2.040	8.996	375.8	2.037	9.315	375.7	2.033	70
75	7.607	380.8	2.065	7.918	380.7	2.061	8.230	380.6	2.057	8.543	380.5	2.053	8.855	380.4	2.050	9.169	380.3	2.046	75
80	7.491	385.4	2.078	7.797	385.3	2.074	8.104	385.2	2.070	8.411	385.1	2.066	8.719	385.0	2.063	9.027	384.9	2.059	80
85	7.379	390.0	2.091	7.680	389.9	2.087	7.982	389.8	2.083	8.284	389.7	2.080	8.587	389.6	2.076	8.890	389.5	2.072	85
90	7.271	394.7	2.104	7.567	394.6	2.100	7.864	394.5	2.096	8.162	394.4	2.093	8.459	394.3	2.089	8.758	394.2	2.085	90
95	7.165	399.4	2.117	7.457	399.3	2.113	7.750	399.2	2.109	8.042	399.1	2.105	8.336	399.0	2.102	8.629	398.9	2.098	95
100	7.063	404.1	2.130	7.351	404.0	2.126	7.639	404.0	2.122	7.927	403.9	2.118	8.216	403.8	2.115	8.505	403.7	2.111	100
105	6.964	408.9	2.142	7.247	408.8	2.139	7.531	408.8	2.135	7.815	408.7	2.131	8.099	408.6	2.127	8.384	408.5	2.124	105
110	6.868	413.8	2.155	7.147	413.7	2.151	7.426	413.6	2.147	7.706	413.5	2.144	7.986	413.4	2.140	8.267	413.3	2.137	110
115	6.774	418.6	2.168	7.050	418.5	2.164	7.325	418.5	2.160	7.601	418.4	2.156	7.877	418.3	2.153	8.153	418.2	2.149	115
120	6.684	423.5	2.180	6.955	423.4	2.176	7.226	423.4	2.173	7.498	423.3	2.169	7.770	423.2	2.165	8.043	423.1	2.162	120

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 5

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	3.1			3.2			3.3			3.4			3.5			3.6			
	Dew Point -10.89C			Dew Point -10.05C			Dew Point -9.24C			Dew Point -8.44C			Dew Point -7.66C			Dew Point -6.90C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
-10	13.080	307.4	1.804	13.535	307.2	1.801													-10
-8	12.960	309.0	1.810	13.410	308.8	1.807	13.862	308.6	1.803	14.317	308.5	1.800							-8
-6	12.843	310.6	1.816	13.287	310.4	1.813	13.735	310.2	1.809	14.184	310.1	1.806	14.636	309.9	1.803	15.090	309.7	1.800	-6
-4	12.727	312.2	1.822	13.167	312.0	1.819	13.610	311.8	1.815	14.054	311.7	1.812	14.501	311.5	1.809	14.950	311.4	1.806	-4
-2	12.614	313.8	1.828	13.050	313.6	1.825	13.487	313.5	1.821	13.927	313.3	1.818	14.369	313.1	1.815	14.812	313.0	1.812	-2
0	12.504	315.4	1.834	12.935	315.2	1.831	13.368	315.1	1.827	13.802	314.9	1.824	14.239	314.8	1.821	14.678	314.6	1.818	0
2	12.395	317.0	1.840	12.822	316.9	1.836	13.250	316.7	1.833	13.680	316.5	1.830	14.113	316.4	1.827	14.547	316.2	1.824	2
4	12.289	318.6	1.846	12.711	318.5	1.842	13.135	318.3	1.839	13.561	318.2	1.836	13.989	318.0	1.833	14.418	317.9	1.829	4
6	12.185	320.3	1.852	12.603	320.1	1.848	13.022	320.0	1.845	13.444	319.8	1.842	13.867	319.7	1.838	14.292	319.5	1.835	6
8	12.082	321.9	1.857	12.496	321.8	1.854	12.912	321.6	1.851	13.329	321.5	1.847	13.748	321.3	1.844	14.168	321.2	1.841	8
10	11.982	323.6	1.863	12.392	323.4	1.860	12.803	323.3	1.857	13.216	323.1	1.853	13.631	323.0	1.850	14.047	322.8	1.847	10
12	11.883	325.2	1.869	12.289	325.1	1.866	12.696	324.9	1.862	13.105	324.8	1.859	13.516	324.6	1.856	13.928	324.5	1.853	12
14	11.786	326.9	1.875	12.188	326.7	1.871	12.592	326.6	1.868	12.997	326.4	1.865	13.403	326.3	1.862	13.812	326.1	1.859	14
16	11.691	328.5	1.881	12.089	328.4	1.877	12.489	328.2	1.874	12.890	328.1	1.871	13.293	328.0	1.868	13.697	327.8	1.865	16
18	11.598	330.2	1.886	11.992	330.0	1.883	12.388	329.9	1.880	12.786	329.8	1.876	13.185	329.6	1.873	13.585	329.5	1.870	18
20	11.506	331.9	1.892	11.897	331.7	1.889	12.289	331.6	1.885	12.683	331.4	1.882	13.078	331.3	1.879	13.475	331.2	1.876	20
25	11.284	336.1	1.906	11.666	335.9	1.903	12.049	335.8	1.900	12.434	335.7	1.897	12.820	335.5	1.893	13.207	335.4	1.890	25
30	11.070	340.3	1.920	11.444	340.2	1.917	11.820	340.0	1.914	12.196	339.9	1.911	12.573	339.8	1.908	12.952	339.7	1.905	30
35	10.866	344.6	1.934	11.232	344.5	1.931	11.599	344.3	1.928	11.968	344.2	1.925	12.337	344.1	1.922	12.707	344.0	1.919	35
40	10.669	348.9	1.948	11.028	348.8	1.945	11.388	348.7	1.942	11.748	348.5	1.939	12.110	348.4	1.936	12.473	348.3	1.933	40
45	10.481	353.3	1.962	10.832	353.1	1.959	11.185	353.0	1.956	11.538	352.9	1.952	11.892	352.8	1.949	12.247	352.7	1.946	45
50	10.299	357.6	1.976	10.644	357.5	1.973	10.989	357.4	1.969	11.335	357.3	1.966	11.683	357.2	1.963	12.031	357.1	1.960	50
55	10.124	362.1	1.989	10.462	362.0	1.986	10.801	361.8	1.983	11.141	361.7	1.980	11.481	361.6	1.977	11.822	361.5	1.974	55
60	9.955	366.5	2.003	10.287	366.4	2.000	10.620	366.3	1.996	10.953	366.2	1.993	11.287	366.1	1.990	11.622	366.0	1.987	60
65	9.792	371.0	2.016	10.118	370.9	2.013	10.445	370.8	2.010	10.772	370.7	2.007	11.100	370.6	2.004	11.429	370.5	2.001	65
70	9.635	375.6	2.030	9.955	375.5	2.026	10.276	375.4	2.023	10.597	375.3	2.020	10.919	375.2	2.017	11.242	375.0	2.014	70
75	9.483	380.1	2.043	9.798	380.0	2.040	10.113	379.9	2.036	10.429	379.8	2.033	10.745	379.7	2.030	11.062	379.6	2.027	75
80	9.336	384.8	2.056	9.646	384.7	2.053	9.955	384.6	2.050	10.266	384.5	2.047	10.577	384.4	2.044	10.888	384.3	2.041	80
85	9.194	389.4	2.069	9.498	389.3	2.066	9.803	389.2	2.063	10.108	389.1	2.060	10.414	389.0	2.057	10.720	388.9	2.054	85
90	9.057	394.1	2.082	9.356	394.0	2.079	9.656	393.9	2.076	9.956	393.8	2.073	10.256	393.7	2.070	10.558	393.6	2.067	90
95	8.923	398.8	2.095	9.218	398.7	2.092	9.513	398.7	2.089	9.808	398.6	2.086	10.104	398.5	2.083	10.400	398.4	2.080	95
100	8.794	403.6	2.108	9.084	403.5	2.105	9.374	403.4	2.102	9.665	403.3	2.098	9.956	403.2	2.096	10.248	403.1	2.093	100
105	8.669	408.4	2.121	8.955	408.3	2.117	9.240	408.2	2.114	9.527	408.1	2.111	9.813	408.1	2.108	10.100	408.0	2.105	105
110	8.548	413.2	2.133	8.829	413.2	2.130	9.110	413.1	2.127	9.392	413.0	2.124	9.674	412.9	2.121	9.957	412.8	2.118	110
115	8.430	418.1	2.146	8.707	418.0	2.143	8.984	418.0	2.140	9.262	417.9	2.137	9.540	417.8	2.134	9.818	417.7	2.131	115
120	8.315	423.0	2.159	8.588	423.0	2.155	8.862	422.9	2.152	9.135	422.8	2.149	9.409	422.7	2.146	9.683	422.6	2.143	120
125	8.204	428.0	2.171	8.473	427.9	2.168	8.743	427.8	2.165	9.012	427.7	2.162	9.282	427.7	2.159	9.552	427.6	2.156	125
130	8.096	433.0	2.184	8.361	432.9	2.180	8.627	432.8	2.177	8.893	432.7	2.174	9.159	432.7	2.171	9.425	432.6	2.168	130
135	7.991	438.0	2.196	8.252	437.9	2.193	8.514	437.8	2.190	8.777	437.8	2.187	9.039	437.7	2.184	9.302	437.6	2.181	135

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 6

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	3.7			3.8			3.9			4.0			4.1			4.2			
	Dew Point -6.15C			Dew Point -5.42C			Dew Point -4.71C			Dew Point -4.00C			Dew Point -3.32C			Dew Point -2.64C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
-6	15.546	309.6	1.796																-6
-4	15.401	311.2	1.803	15.854	311.0	1.800	16.309	310.9	1.797	16.767	310.7	1.794							-4
-2	15.258	312.8	1.809	15.706	312.6	1.806	16.157	312.5	1.803	16.609	312.3	1.800	17.064	312.2	1.797	17.521	312.0	1.794	-2
0	15.119	314.4	1.815	15.562	314.3	1.812	16.007	314.1	1.809	16.455	314.0	1.806	16.904	313.8	1.803	17.356	313.6	1.800	0
2	14.983	316.1	1.820	15.421	315.9	1.818	15.861	315.8	1.815	16.304	315.6	1.812	16.748	315.4	1.809	17.194	315.3	1.806	2
4	14.850	317.7	1.826	15.283	317.6	1.823	15.718	317.4	1.821	16.156	317.2	1.818	16.595	317.1	1.815	17.036	316.9	1.812	4
6	14.719	319.4	1.832	15.148	319.2	1.829	15.578	319.1	1.826	16.011	318.9	1.824	16.445	318.7	1.821	16.881	318.6	1.818	6
8	14.591	321.0	1.838	15.015	320.9	1.835	15.441	320.7	1.832	15.869	320.6	1.830	16.298	320.4	1.827	16.730	320.2	1.824	8
10	14.465	322.7	1.844	14.885	322.5	1.841	15.306	322.4	1.838	15.730	322.2	1.835	16.155	322.1	1.833	16.582	321.9	1.830	10
12	14.342	324.3	1.850	14.757	324.2	1.847	15.175	324.0	1.844	15.593	323.9	1.841	16.014	323.7	1.839	16.436	323.6	1.836	12
14	14.221	326.0	1.856	14.633	325.8	1.853	15.045	325.7	1.850	15.460	325.6	1.847	15.876	325.4	1.844	16.294	325.3	1.842	14
16	14.103	327.7	1.862	14.510	327.5	1.859	14.919	327.4	1.856	15.329	327.2	1.853	15.741	327.1	1.850	16.154	326.9	1.848	16
18	13.986	329.3	1.867	14.390	329.2	1.864	14.794	329.1	1.862	15.201	328.9	1.859	15.608	328.8	1.856	16.018	328.6	1.853	18
20	13.872	331.0	1.873	14.272	330.9	1.870	14.672	330.7	1.867	15.075	330.6	1.865	15.478	330.5	1.862	15.883	330.3	1.859	20
25	13.596	335.3	1.887	13.986	335.1	1.885	14.377	335.0	1.882	14.770	334.8	1.879	15.164	334.7	1.876	15.559	334.6	1.874	25
30	13.332	339.5	1.902	13.713	339.4	1.899	14.095	339.3	1.896	14.479	339.1	1.893	14.863	339.0	1.890	15.249	338.9	1.888	30
35	13.079	343.8	1.916	13.451	343.7	1.913	13.825	343.6	1.910	14.200	343.4	1.907	14.576	343.3	1.905	14.953	343.2	1.902	35
40	12.836	348.2	1.930	13.201	348.0	1.927	13.566	347.9	1.924	13.933	347.8	1.921	14.301	347.7	1.919	14.670	347.5	1.916	40
45	12.603	352.5	1.943	12.960	352.4	1.941	13.318	352.3	1.938	13.677	352.2	1.935	14.037	352.1	1.933	14.398	351.9	1.930	45
50	12.380	356.9	1.957	12.729	356.8	1.954	13.080	356.7	1.952	13.432	356.6	1.949	13.784	356.5	1.946	14.137	356.4	1.944	50
55	12.165	361.4	1.971	12.507	361.3	1.968	12.851	361.2	1.965	13.196	361.0	1.963	13.541	360.9	1.960	13.887	360.8	1.957	55
60	11.957	365.9	1.984	12.294	365.8	1.982	12.631	365.6	1.979	12.969	365.5	1.976	13.307	365.4	1.974	13.646	365.3	1.971	60
65	11.758	370.4	1.998	12.088	370.3	1.995	12.418	370.2	1.992	12.750	370.1	1.990	13.082	370.0	1.987	13.415	369.8	1.985	65
70	11.565	374.9	2.011	11.889	374.8	2.008	12.214	374.7	2.006	12.539	374.6	2.003	12.865	374.5	2.000	13.191	374.4	1.998	70
75	11.380	379.5	2.025	11.698	379.4	2.022	12.016	379.3	2.019	12.336	379.2	2.016	12.656	379.1	2.014	12.976	379.0	2.011	75
80	11.200	384.2	2.038	11.513	384.1	2.035	11.826	384.0	2.032	12.140	383.9	2.030	12.454	383.8	2.027	12.769	383.7	2.025	80
85	11.027	388.8	2.051	11.334	388.7	2.048	11.642	388.6	2.045	11.950	388.5	2.043	12.259	388.4	2.040	12.568	388.3	2.038	85
90	10.859	393.5	2.064	11.161	393.4	2.061	11.464	393.4	2.058	11.767	393.3	2.056	12.070	393.2	2.053	12.374	393.1	2.051	90
95	10.697	398.3	2.077	10.994	398.2	2.074	11.292	398.1	2.071	11.590	398.0	2.069	11.888	397.9	2.066	12.187	397.8	2.064	95
100	10.540	403.1	2.090	10.832	403.0	2.087	11.125	402.9	2.084	11.418	402.8	2.082	11.712	402.7	2.079	12.006	402.6	2.077	100
105	10.388	407.9	2.103	10.675	407.8	2.100	10.963	407.7	2.097	11.252	407.6	2.095	11.541	407.5	2.092	11.830	407.4	2.090	105
110	10.240	412.7	2.115	10.523	412.6	2.113	10.807	412.6	2.110	11.091	412.5	2.107	11.375	412.4	2.105	11.660	412.3	2.102	110
115	10.097	417.6	2.128	10.376	417.5	2.125	10.655	417.5	2.123	10.935	417.4	2.120	11.215	417.3	2.118	11.495	417.2	2.115	115
120	9.958	422.6	2.141	10.233	422.5	2.138	10.508	422.4	2.135	10.783	422.3	2.133	11.059	422.2	2.130	11.335	422.1	2.128	120
125	9.823	427.5	2.153	10.094	427.4	2.150	10.365	427.4	2.148	10.636	427.3	2.145	10.908	427.2	2.143	11.180	427.1	2.140	125
130	9.692	432.5	2.166	9.959	432.4	2.163	10.226	432.4	2.160	10.494	432.3	2.158	10.761	432.2	2.155	11.030	432.1	2.153	130
135	9.565	437.5	2.178	9.828	437.5	2.175	10.091	437.4	2.173	10.355	437.3	2.170	10.619	437.2	2.168	10.883	437.2	2.165	135
140	9.441	442.6	2.190	9.700	442.5	2.188	9.960	442.5	2.185	10.220	442.4	2.182	10.480	442.3	2.180	10.741	442.2	2.178	140
145	9.320	447.7	2.203	9.576	447.6	2.200	9.833	447.6	2.197	10.089	447.5	2.195	10.346	447.4	2.192	10.603	447.3	2.190	145

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 7

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	4.3			4.4			4.5			4.6			4.7			4.8			
	Dew Point -1.98C			Dew Point -1.32C			Dew Point -0.68C			Dew Point -0.05			Dew Point 0.57C			Dew Point 1.18C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
0	17.810	313.5	1.798	18.266	313.3	1.795	18.724	313.1	1.792	19.185	313.0	1.790							0
2	17.643	315.1	1.804	18.094	314.9	1.801	18.546	314.8	1.798	19.002	314.6	1.796	19.459	314.5	1.793	19.919	314.3	1.791	2
4	17.480	316.8	1.810	17.925	316.6	1.807	18.373	316.4	1.804	18.822	316.3	1.802	19.274	316.1	1.799	19.728	316.0	1.797	4
6	17.320	318.4	1.816	17.760	318.3	1.813	18.202	318.1	1.810	18.647	317.9	1.808	19.093	317.8	1.805	19.542	317.6	1.803	6
8	17.163	320.1	1.821	17.599	319.9	1.819	18.036	319.8	1.816	18.475	319.6	1.814	18.916	319.5	1.811	19.360	319.3	1.809	8
10	17.010	321.8	1.827	17.441	321.6	1.825	17.873	321.4	1.822	18.307	321.3	1.820	18.744	321.1	1.817	19.182	321.0	1.815	10
12	16.860	323.4	1.833	17.286	323.3	1.831	17.714	323.1	1.828	18.143	323.0	1.826	18.574	322.8	1.823	19.007	322.7	1.821	12
14	16.713	325.1	1.839	17.135	325.0	1.837	17.558	324.8	1.834	17.982	324.7	1.832	18.409	324.5	1.829	18.837	324.4	1.827	14
16	16.569	326.8	1.845	16.986	326.6	1.842	17.405	326.5	1.840	17.825	326.3	1.837	18.246	326.2	1.835	18.670	326.1	1.833	16
18	16.428	328.5	1.851	16.841	328.3	1.848	17.255	328.2	1.846	17.670	328.0	1.843	18.087	327.9	1.841	18.506	327.8	1.838	18
20	16.290	330.2	1.857	16.698	330.0	1.854	17.108	329.9	1.852	17.519	329.7	1.849	17.932	329.6	1.847	18.346	329.5	1.844	20
25	15.955	334.4	1.871	16.353	334.3	1.868	16.753	334.2	1.866	17.154	334.0	1.864	17.556	333.9	1.861	17.959	333.7	1.859	25
30	15.636	338.7	1.885	16.025	338.6	1.883	16.414	338.5	1.880	16.805	338.3	1.878	17.198	338.2	1.875	17.591	338.1	1.873	30
35	15.331	343.1	1.899	15.711	342.9	1.897	16.091	342.8	1.894	16.473	342.7	1.892	16.856	342.5	1.890	17.240	342.4	1.887	35
40	15.039	347.4	1.913	15.410	347.3	1.911	15.782	347.2	1.909	16.155	347.0	1.906	16.529	346.9	1.904	16.904	346.8	1.901	40
45	14.760	351.8	1.927	15.123	351.7	1.925	15.486	351.6	1.922	15.851	351.4	1.920	16.217	351.3	1.918	16.584	351.2	1.915	45
50	14.492	356.2	1.941	14.847	356.1	1.939	15.203	356.0	1.936	15.560	355.9	1.934	15.917	355.8	1.932	16.276	355.6	1.929	50
55	14.234	360.7	1.955	14.582	360.6	1.952	14.930	360.5	1.950	15.280	360.4	1.948	15.630	360.2	1.945	15.981	360.1	1.943	55
60	13.986	365.2	1.969	14.327	365.1	1.966	14.669	365.0	1.964	15.011	364.9	1.961	15.354	364.8	1.959	15.698	364.6	1.957	60
65	13.748	369.7	1.982	14.082	369.6	1.980	14.417	369.5	1.977	14.753	369.4	1.975	15.089	369.3	1.973	15.426	369.2	1.970	65
70	13.519	374.3	1.995	13.846	374.2	1.993	14.175	374.1	1.991	14.504	374.0	1.988	14.834	373.9	1.986	15.164	373.8	1.984	70
75	13.297	378.9	2.009	13.619	378.8	2.006	13.941	378.7	2.004	14.264	378.6	2.002	14.588	378.5	1.999	14.912	378.4	1.997	75
80	13.084	383.6	2.022	13.400	383.5	2.020	13.716	383.4	2.017	14.033	383.3	2.015	14.351	383.2	2.013	14.669	383.1	2.010	80
85	12.878	388.2	2.035	13.188	388.2	2.033	13.499	388.1	2.030	13.810	388.0	2.028	14.122	387.9	2.026	14.435	387.8	2.024	85
90	12.679	393.0	2.048	12.984	392.9	2.046	13.289	392.8	2.044	13.595	392.7	2.041	13.901	392.6	2.039	14.208	392.5	2.037	90
95	12.486	397.7	2.061	12.786	397.6	2.059	13.086	397.5	2.057	13.387	397.4	2.054	13.688	397.4	2.052	13.990	397.3	2.050	95
100	12.300	402.5	2.074	12.595	402.4	2.072	12.890	402.3	2.069	13.186	402.2	2.067	13.482	402.2	2.065	13.778	402.1	2.063	100
105	12.120	407.3	2.087	12.410	407.3	2.085	12.700	407.2	2.082	12.991	407.1	2.080	13.282	407.0	2.078	13.574	406.9	2.076	105
110	11.945	412.2	2.100	12.231	412.1	2.098	12.516	412.0	2.095	12.802	412.0	2.093	13.089	411.9	2.091	13.376	411.8	2.088	110
115	11.776	417.1	2.113	12.057	417.0	2.110	12.338	417.0	2.108	12.620	416.9	2.106	12.902	416.8	2.103	13.184	416.7	2.101	115
120	11.612	422.1	2.125	11.888	422.0	2.123	12.165	421.9	2.121	12.443	421.8	2.118	12.721	421.7	2.116	12.999	421.7	2.114	120
125	11.452	427.0	2.138	11.725	427.0	2.135	11.998	426.9	2.133	12.271	426.8	2.131	12.545	426.7	2.129	12.818	426.6	2.126	125
130	11.298	432.0	2.150	11.566	432.0	2.148	11.835	431.9	2.146	12.104	431.8	2.143	12.374	431.7	2.141	12.644	431.7	2.139	130
135	11.148	437.1	2.163	11.412	437.0	2.160	11.677	436.9	2.158	11.943	436.9	2.156	12.208	436.8	2.154	12.474	436.7	2.151	135
140	11.002	442.2	2.175	11.263	442.1	2.173	11.524	442.0	2.170	11.785	441.9	2.168	12.047	441.9	2.166	12.309	441.8	2.164	140
145	10.860	447.3	2.187	11.117	447.2	2.185	11.375	447.1	2.183	11.633	447.1	2.181	11.891	447.0	2.178	12.149	446.9	2.176	145
150	10.722	452.4	2.200	10.976	452.4	2.197	11.230	452.3	2.195	11.484	452.2	2.193	11.739	452.1	2.191	11.993	452.1	2.188	150
155	10.587	457.6	2.212	10.838	457.5	2.209	11.089	457.5	2.207	11.339	457.4	2.205	11.590	457.3	2.203	11.842	457.3	2.201	155

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 8

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	4.9			5.0			5.1			5.2			5.3			5.4			
	Dew Point 1.78C			Dew Point 2.37C			Dew Point 2.95C			Dew Point 3.52C			Dew Point 4.09C			Dew Point 4.64C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
2	20.381	314.1	1.788																2
4	20.184	315.8	1.795	20.643	315.6	1.792	21.104	315.5	1.790	21.567	315.3	1.788							4
6	19.992	317.5	1.801	20.445	317.3	1.798	20.900	317.1	1.796	21.357	317.0	1.794	21.817	316.8	1.791	22.279	316.6	1.789	6
8	19.805	319.1	1.807	20.252	319.0	1.804	20.702	318.8	1.802	21.153	318.7	1.800	21.607	318.5	1.797	22.063	318.3	1.795	8
10	19.622	320.8	1.812	20.064	320.7	1.810	20.508	320.5	1.808	20.954	320.4	1.806	21.402	320.2	1.803	21.852	320.0	1.801	10
12	19.442	322.5	1.818	19.879	322.4	1.816	20.318	322.2	1.814	20.758	322.0	1.812	21.201	321.9	1.809	21.646	321.7	1.807	12
14	19.267	324.2	1.824	19.699	324.1	1.822	20.132	323.9	1.820	20.568	323.7	1.817	21.005	323.6	1.815	21.444	323.4	1.813	14
16	19.095	325.9	1.830	19.522	325.8	1.828	19.951	325.6	1.826	20.381	325.4	1.823	20.813	325.3	1.821	21.247	325.1	1.819	16
18	18.927	327.6	1.836	19.349	327.5	1.834	19.773	327.3	1.832	20.198	327.2	1.829	20.626	327.0	1.827	21.055	326.9	1.825	18
20	18.762	329.3	1.842	19.180	329.2	1.840	19.599	329.0	1.837	20.020	328.9	1.835	20.442	328.7	1.833	20.866	328.6	1.831	20
25	18.365	333.6	1.856	18.771	333.5	1.854	19.179	333.3	1.852	19.589	333.2	1.850	20.000	333.0	1.848	20.412	332.9	1.845	25
30	17.986	337.9	1.871	18.382	337.8	1.869	18.780	337.6	1.866	19.179	337.5	1.864	19.579	337.4	1.862	19.981	337.2	1.860	30
35	17.625	342.3	1.885	18.012	342.1	1.883	18.400	342.0	1.881	18.789	341.9	1.878	19.179	341.7	1.876	19.570	341.6	1.874	35
40	17.281	346.7	1.899	17.658	346.5	1.897	18.037	346.4	1.895	18.416	346.3	1.893	18.797	346.1	1.890	19.179	346.0	1.888	40
45	16.951	351.1	1.913	17.320	350.9	1.911	17.690	350.8	1.909	18.061	350.7	1.907	18.432	350.6	1.904	18.805	350.4	1.902	45
50	16.636	355.5	1.927	16.996	355.4	1.925	17.358	355.3	1.923	17.720	355.2	1.921	18.084	355.0	1.918	18.448	354.9	1.916	50
55	16.333	360.0	1.941	16.686	359.9	1.939	17.040	359.8	1.936	17.394	359.7	1.934	17.750	359.5	1.932	18.106	359.4	1.930	55
60	16.043	364.5	1.954	16.388	364.4	1.952	16.734	364.3	1.950	17.081	364.2	1.948	17.429	364.1	1.946	17.778	364.0	1.944	60
65	15.764	369.1	1.968	16.102	369.0	1.966	16.441	368.9	1.964	16.781	368.7	1.962	17.122	368.6	1.960	17.463	368.5	1.957	65
70	15.495	373.7	1.982	15.827	373.6	1.979	16.159	373.5	1.977	16.493	373.3	1.975	16.826	373.2	1.973	17.161	373.1	1.971	70
75	15.237	378.3	1.995	15.562	378.2	1.993	15.888	378.1	1.991	16.215	378.0	1.989	16.542	377.9	1.986	16.870	377.8	1.984	75
80	14.988	383.0	2.008	15.307	382.9	2.006	15.627	382.8	2.004	15.947	382.7	2.002	16.268	382.5	2.000	16.590	382.4	1.998	80
85	14.747	387.7	2.021	15.061	387.6	2.019	15.375	387.5	2.017	15.689	387.4	2.015	16.004	387.3	2.013	16.320	387.2	2.011	85
90	14.516	392.4	2.035	14.823	392.3	2.032	15.132	392.2	2.030	15.441	392.1	2.028	15.750	392.0	2.026	16.060	391.9	2.024	90
95	14.292	397.2	2.048	14.594	397.1	2.045	14.897	397.0	2.043	15.201	396.9	2.041	15.504	396.8	2.039	15.809	396.7	2.037	95
100	14.075	402.0	2.061	14.373	401.9	2.058	14.670	401.8	2.056	14.969	401.7	2.054	15.267	401.6	2.052	15.566	401.5	2.050	100
105	13.866	406.8	2.073	14.158	406.7	2.071	14.451	406.6	2.069	14.744	406.6	2.067	15.038	406.5	2.065	15.332	406.4	2.063	105
110	13.663	411.7	2.086	13.951	411.6	2.084	14.239	411.5	2.082	14.527	411.4	2.080	14.816	411.4	2.078	15.105	411.3	2.076	110
115	13.467	416.6	2.099	13.750	416.5	2.097	14.033	416.5	2.095	14.317	416.4	2.093	14.601	416.3	2.091	14.886	416.2	2.089	115
120	13.277	421.6	2.112	13.555	421.5	2.110	13.834	421.4	2.108	14.114	421.3	2.106	14.393	421.2	2.104	14.673	421.2	2.102	120
125	13.092	426.6	2.124	13.367	426.5	2.122	13.642	426.4	2.120	13.917	426.3	2.118	14.192	426.2	2.116	14.467	426.2	2.114	125
130	12.914	431.6	2.137	13.184	431.5	2.135	13.454	431.4	2.133	13.725	431.3	2.131	13.996	431.3	2.129	14.268	431.2	2.127	130
135	12.740	436.6	2.149	13.006	436.6	2.147	13.273	436.5	2.145	13.540	436.4	2.143	13.807	436.3	2.141	14.074	436.3	2.139	135
140	12.571	441.7	2.162	12.834	441.7	2.160	13.096	441.6	2.158	13.359	441.5	2.156	13.623	441.4	2.154	13.886	441.4	2.152	140
145	12.407	446.8	2.174	12.666	446.8	2.172	12.925	446.7	2.170	13.184	446.6	2.168	13.444	446.6	2.166	13.703	446.5	2.164	145
150	12.248	452.0	2.186	12.503	451.9	2.184	12.759	451.9	2.182	13.014	451.8	2.180	13.270	451.7	2.178	13.526	451.7	2.176	150
155	12.093	457.2	2.198	12.345	457.1	2.196	12.597	457.1	2.194	12.849	457.0	2.192	13.101	456.9	2.190	13.353	456.9	2.189	155
160	11.942	462.4	2.211	12.191	462.4	2.209	12.439	462.3	2.207	12.688	462.2	2.205	12.936	462.2	2.203	13.185	462.1	2.201	160

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 9

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	5.5			5.6			5.7			5.8			5.9			6.0			
	Dew Point 5.19C			Dew Point 5.73C			Dew Point 6.26C			Dew Point 6.79C			Dew Point 7.31C			Dew Point 7.82C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
6	22.743	316.5	1.787	23.209	316.3	1.785													6
8	22.521	318.2	1.793	22.981	318.0	1.791	23.443	317.8	1.789	23.908	317.7	1.787	24.375	317.5	1.785	24.845	317.3	1.783	8
10	22.304	319.9	1.799	22.758	319.7	1.797	23.215	319.5	1.795	23.674	319.4	1.793	24.134	319.2	1.791	24.598	319.1	1.789	10
12	22.092	321.6	1.805	22.541	321.4	1.803	22.992	321.3	1.801	23.445	321.1	1.799	23.899	320.9	1.797	24.357	320.8	1.795	12
14	21.886	323.3	1.811	22.329	323.1	1.809	22.774	323.0	1.807	23.221	322.8	1.805	23.670	322.7	1.803	24.121	322.5	1.801	14
16	21.683	325.0	1.817	22.121	324.8	1.815	22.561	324.7	1.813	23.002	324.5	1.811	23.446	324.4	1.809	23.891	324.2	1.807	16
18	21.486	326.7	1.823	21.918	326.6	1.821	22.353	326.4	1.819	22.789	326.2	1.817	23.227	326.1	1.815	23.667	325.9	1.813	18
20	21.292	328.4	1.829	21.720	328.3	1.827	22.149	328.1	1.825	22.580	328.0	1.822	23.013	327.8	1.820	23.448	327.7	1.818	20
25	20.826	332.7	1.843	21.242	332.6	1.841	21.659	332.5	1.839	22.078	332.3	1.837	22.498	332.2	1.835	22.920	332.0	1.833	25
30	20.384	337.1	1.858	20.788	337.0	1.856	21.194	336.8	1.854	21.601	336.7	1.852	22.010	336.5	1.850	22.420	336.4	1.848	30
35	19.963	341.5	1.872	20.357	341.3	1.870	20.752	341.2	1.868	21.149	341.1	1.866	21.547	340.9	1.864	21.946	340.8	1.862	35
40	19.562	345.9	1.886	19.946	345.8	1.884	20.332	345.6	1.882	20.718	345.5	1.880	21.106	345.4	1.878	21.495	345.2	1.876	40
45	19.179	350.3	1.900	19.554	350.2	1.898	19.930	350.1	1.896	20.307	349.9	1.894	20.686	349.8	1.892	21.065	349.7	1.891	45
50	18.813	354.8	1.914	19.180	354.7	1.912	19.547	354.6	1.910	19.915	354.4	1.908	20.284	354.3	1.906	20.655	354.2	1.905	50
55	18.463	359.3	1.928	18.821	359.2	1.926	19.180	359.1	1.924	19.540	358.9	1.922	19.901	358.8	1.920	20.263	358.7	1.918	55
60	18.127	363.8	1.942	18.478	363.7	1.940	18.829	363.6	1.938	19.181	363.5	1.936	19.534	363.4	1.934	19.887	363.3	1.932	60
65	17.805	368.4	1.955	18.148	368.3	1.954	18.492	368.2	1.952	18.836	368.1	1.950	19.182	368.0	1.948	19.527	367.9	1.946	65
70	17.496	373.0	1.969	17.832	372.9	1.967	18.168	372.8	1.965	18.506	372.7	1.963	18.844	372.6	1.961	19.182	372.5	1.959	70
75	17.198	377.7	1.982	17.528	377.6	1.980	17.857	377.5	1.979	18.188	377.3	1.977	18.519	377.2	1.975	18.851	377.1	1.973	75
80	16.912	382.3	1.996	17.235	382.2	1.994	17.558	382.1	1.992	17.882	382.0	1.990	18.207	381.9	1.988	18.532	381.8	1.986	80
85	16.636	387.1	2.009	16.953	387.0	2.007	17.270	386.9	2.005	17.588	386.8	2.003	17.906	386.7	2.001	18.225	386.6	2.000	85
90	16.370	391.8	2.022	16.681	391.7	2.020	16.992	391.6	2.018	17.304	391.5	2.017	17.617	391.4	2.015	17.930	391.3	2.013	90
95	16.114	396.6	2.035	16.419	396.5	2.033	16.725	396.4	2.031	17.031	396.3	2.030	17.338	396.2	2.028	17.645	396.1	2.026	95
100	15.866	401.4	2.048	16.166	401.3	2.046	16.466	401.2	2.045	16.767	401.1	2.043	17.068	401.1	2.041	17.370	401.0	2.039	100
105	15.626	406.3	2.061	15.921	406.2	2.059	16.216	406.1	2.057	16.512	406.0	2.056	16.808	405.9	2.054	17.104	405.8	2.052	105
110	15.395	411.2	2.074	15.684	411.1	2.072	15.975	411.0	2.070	16.265	410.9	2.069	16.556	410.8	2.067	16.848	410.7	2.065	110
115	15.171	416.1	2.087	15.456	416.0	2.085	15.741	415.9	2.083	16.027	415.9	2.081	16.313	415.8	2.080	16.600	415.7	2.078	115
120	14.953	421.1	2.100	15.234	421.0	2.098	15.515	420.9	2.096	15.796	420.8	2.094	16.078	420.8	2.092	16.360	420.7	2.090	120
125	14.743	426.1	2.112	15.019	426.0	2.110	15.296	425.9	2.109	15.573	425.8	2.107	15.850	425.8	2.105	16.127	425.7	2.103	125
130	14.539	431.1	2.125	14.811	431.0	2.123	15.084	431.0	2.121	15.356	430.9	2.119	15.629	430.8	2.117	15.902	430.7	2.116	130
135	14.342	436.2	2.137	14.609	436.1	2.135	14.878	436.0	2.134	15.146	436.0	2.132	15.415	435.9	2.130	15.684	435.8	2.128	135
140	14.150	441.3	2.150	14.414	441.2	2.148	14.678	441.1	2.146	14.942	441.1	2.144	15.207	441.0	2.142	15.472	440.9	2.141	140
145	13.963	446.4	2.162	14.223	446.3	2.160	14.484	446.3	2.158	14.744	446.2	2.157	15.005	446.1	2.155	15.266	446.1	2.153	145
150	13.782	451.6	2.174	14.038	451.5	2.173	14.295	451.4	2.171	14.552	451.4	2.169	14.809	451.3	2.167	15.066	451.2	2.165	150
155	13.606	456.8	2.187	13.859	456.7	2.185	14.112	456.6	2.183	14.365	456.6	2.181	14.618	456.5	2.179	14.872	456.4	2.178	155
160	13.435	462.0	2.199	13.684	462.0	2.197	13.934	461.9	2.195	14.183	461.8	2.193	14.433	461.8	2.192	14.683	461.7	2.190	160
165	13.268	467.3	2.211	13.514	467.2	2.209	13.760	467.2	2.207	14.006	467.1	2.205	14.253	467.0	2.204	14.500	467.0	2.202	165
170	13.106	472.6	2.223	13.348	472.5	2.221	13.591	472.5	2.219	13.834	472.4	2.217	14.078	472.3	2.216	14.321	472.3	2.214	170

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 10

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	6.5			7.0			7.5			8.0			8.5			9.0			
	Dew Point 10.29C			Dew Point 12.62C			Dew Point 14.82C			Dew Point 16.92C			Dew Point 18.91C			Dew Point 20.82C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
15	26.278	322.6	1.794	28.604	321.7	1.785	30.988	320.9	1.776										15
20	25.648	326.9	1.809	27.897	326.1	1.800	30.197	325.3	1.791	32.551	324.5	1.783	34.963	323.7	1.775				20
25	25.055	331.3	1.824	27.232	330.5	1.815	29.455	329.8	1.806	31.726	329.0	1.798	34.049	328.2	1.790	36.425	327.4	1.783	25
30	24.494	335.7	1.838	26.606	335.0	1.830	28.758	334.2	1.821	30.954	333.5	1.813	33.194	332.7	1.805	35.483	331.9	1.798	30
35	23.962	340.1	1.853	26.014	339.4	1.844	28.101	338.7	1.836	30.227	338.0	1.828	32.393	337.3	1.820	34.602	336.5	1.813	35
40	23.458	344.6	1.867	25.453	343.9	1.859	27.480	343.2	1.850	29.542	342.5	1.842	31.640	341.8	1.835	33.776	341.1	1.828	40
45	22.978	349.0	1.881	24.920	348.4	1.873	26.892	347.7	1.865	28.894	347.1	1.857	30.929	346.4	1.850	32.998	345.7	1.842	45
50	22.521	353.6	1.895	24.414	352.9	1.887	26.333	352.3	1.879	28.281	351.7	1.871	30.257	351.0	1.864	32.264	350.3	1.857	50
55	22.085	358.1	1.909	23.931	357.5	1.901	25.802	356.9	1.893	27.698	356.3	1.885	29.620	355.6	1.878	31.570	355.0	1.871	55
60	21.668	362.7	1.923	23.470	362.1	1.915	25.295	361.5	1.907	27.143	360.9	1.899	29.015	360.3	1.892	30.912	359.7	1.885	60
65	21.269	367.3	1.937	23.030	366.7	1.929	24.812	366.1	1.921	26.615	365.6	1.913	28.439	365.0	1.906	30.286	364.4	1.899	65
70	20.886	371.9	1.951	22.609	371.4	1.942	24.350	370.8	1.934	26.110	370.2	1.927	27.890	369.7	1.920	29.691	369.1	1.913	70
75	20.519	376.6	1.964	22.205	376.1	1.956	23.908	375.5	1.948	25.628	375.0	1.941	27.366	374.4	1.934	29.123	373.9	1.927	75
80	20.167	381.3	1.978	21.817	380.8	1.969	23.484	380.3	1.962	25.166	379.7	1.954	26.865	379.2	1.947	28.581	378.7	1.941	80
85	19.828	386.1	1.991	21.445	385.5	1.983	23.077	385.0	1.975	24.723	384.5	1.968	26.385	384.0	1.961	28.062	383.5	1.954	85
90	19.502	390.8	2.004	21.087	390.3	1.996	22.686	389.8	1.988	24.299	389.3	1.981	25.925	388.8	1.974	27.566	388.3	1.968	90
95	19.188	395.6	2.017	20.743	395.2	2.009	22.311	394.7	2.002	23.891	394.2	1.994	25.484	393.7	1.988	27.090	393.2	1.981	95
100	18.885	400.5	2.030	20.411	400.0	2.022	21.949	399.6	2.015	23.498	399.1	2.008	25.060	398.6	2.001	26.633	398.1	1.994	100
105	18.593	405.4	2.043	20.091	404.9	2.035	21.601	404.5	2.028	23.121	404.0	2.021	24.652	403.6	2.014	26.194	403.1	2.007	105
110	18.310	410.3	2.056	19.783	409.9	2.048	21.265	409.4	2.041	22.757	409.0	2.034	24.259	408.5	2.027	25.771	408.1	2.021	110
115	18.038	415.3	2.069	19.485	414.8	2.061	20.941	414.4	2.054	22.406	414.0	2.047	23.880	413.5	2.040	25.364	413.1	2.034	115
120	17.774	420.3	2.082	19.197	419.8	2.074	20.628	419.4	2.067	22.067	419.0	2.060	23.515	418.6	2.053	24.972	418.2	2.047	120
125	17.519	425.3	2.095	18.918	424.9	2.087	20.325	424.5	2.079	21.740	424.1	2.072	23.163	423.6	2.066	24.594	423.2	2.059	125
130	17.272	430.3	2.107	18.648	429.9	2.099	20.033	429.5	2.092	21.424	429.1	2.085	22.823	428.7	2.078	24.229	428.3	2.072	130
135	17.032	435.4	2.120	18.387	435.0	2.112	19.749	434.7	2.105	21.118	434.3	2.098	22.494	433.9	2.091	23.877	433.5	2.085	135
140	16.800	440.5	2.132	18.134	440.2	2.124	19.475	439.8	2.117	20.822	439.4	2.110	22.175	439.0	2.104	23.535	438.7	2.097	140
145	16.574	445.7	2.145	17.889	445.3	2.137	19.209	445.0	2.130	20.535	444.6	2.123	21.867	444.2	2.116	23.205	443.9	2.110	145
150	16.356	450.9	2.157	17.651	450.5	2.149	18.951	450.2	2.142	20.257	449.8	2.135	21.568	449.5	2.129	22.886	449.1	2.122	150
155	16.143	456.1	2.169	17.419	455.8	2.162	18.701	455.4	2.154	19.987	455.1	2.147	21.279	454.7	2.141	22.576	454.4	2.135	155
160	15.937	461.4	2.181	17.195	461.0	2.174	18.458	460.7	2.166	19.725	460.3	2.160	20.998	460.0	2.153	22.275	459.7	2.147	160
165	15.736	466.6	2.194	16.977	466.3	2.186	18.222	466.0	2.179	19.471	465.7	2.172	20.725	465.3	2.165	21.984	465.0	2.159	165
170	15.541	472.0	2.206	16.764	471.6	2.198	17.992	471.3	2.191	19.224	471.0	2.184	20.460	470.7	2.178	21.700	470.4	2.171	170
175	15.351	477.3	2.218	16.558	477.0	2.210	17.769	476.7	2.203	18.984	476.4	2.196	20.203	476.1	2.190	21.425	475.7	2.184	175
180	15.165	482.7	2.230	16.357	482.4	2.222	17.552	482.1	2.215	18.750	481.8	2.208	19.952	481.5	2.202	21.158	481.2	2.196	180

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 11

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	9.5			10.0			10.5			11.0			11.5			12.0			
	Dew Point 22.65C			Dew Point 24.40C			Dew Point 26.09C			Dew Point 27.72C			Dew Point 29.29C			Dew Point 30.81C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
25	38.859	326.6	1.776	41.355	325.7	1.769													25
30	37.822	331.2	1.791	40.215	330.3	1.784	42.665	329.5	1.777	45.176	328.7	1.771	47.753	327.8	1.764				30
35	36.855	335.8	1.806	39.155	335.0	1.799	41.505	334.2	1.793	43.909	333.4	1.786	46.368	332.6	1.780	48.887	331.8	1.774	35
40	35.951	340.4	1.821	38.167	339.6	1.814	40.428	338.9	1.808	42.735	338.1	1.802	45.090	337.4	1.795	47.497	336.6	1.789	40
45	35.102	345.0	1.836	37.243	344.3	1.829	39.422	343.6	1.823	41.642	342.9	1.817	43.905	342.1	1.811	46.212	341.4	1.805	45
50	34.303	349.7	1.850	36.374	349.0	1.844	38.480	348.3	1.837	40.621	347.6	1.831	42.800	346.9	1.825	45.019	346.2	1.820	50
55	33.548	354.4	1.865	35.556	353.7	1.858	37.594	353.0	1.852	39.664	352.4	1.846	41.767	351.7	1.840	43.905	351.0	1.834	55
60	32.834	359.0	1.879	34.783	358.4	1.872	36.759	357.8	1.866	38.763	357.1	1.860	40.797	356.5	1.855	42.862	355.8	1.849	60
65	32.157	363.8	1.893	34.051	363.2	1.887	35.969	362.5	1.880	37.913	361.9	1.875	39.884	361.3	1.869	41.882	360.7	1.863	65
70	31.513	368.5	1.907	33.356	367.9	1.901	35.221	367.3	1.895	37.109	366.7	1.889	39.022	366.1	1.883	40.958	365.5	1.878	70
75	30.899	373.3	1.921	32.695	372.7	1.914	34.511	372.2	1.909	36.347	371.6	1.903	38.205	371.0	1.897	40.085	370.4	1.892	75
80	30.314	378.1	1.934	32.066	377.6	1.928	33.835	377.0	1.922	35.623	376.4	1.917	37.431	375.9	1.911	39.258	375.3	1.906	80
85	29.756	383.0	1.948	31.465	382.4	1.942	33.191	381.9	1.936	34.934	381.3	1.930	36.695	380.8	1.925	38.474	380.3	1.920	85
90	29.221	387.8	1.961	30.891	387.3	1.955	32.577	386.8	1.950	34.278	386.3	1.944	35.994	385.7	1.939	37.727	385.2	1.934	90
95	28.709	392.7	1.975	30.342	392.2	1.969	31.989	391.7	1.963	33.650	391.2	1.958	35.326	390.7	1.952	37.016	390.2	1.947	95
100	28.218	397.7	1.988	29.816	397.2	1.982	31.427	396.7	1.977	33.051	396.2	1.971	34.688	395.7	1.966	36.338	395.2	1.961	100
105	27.747	402.6	2.001	29.312	402.2	1.995	30.888	401.7	1.990	32.476	401.2	1.984	34.077	400.7	1.979	35.690	400.3	1.974	105
110	27.294	407.6	2.015	28.827	407.2	2.009	30.371	406.7	2.003	31.926	406.3	1.998	33.492	405.8	1.992	35.069	405.3	1.987	110
115	26.858	412.7	2.028	28.361	412.2	2.022	29.875	411.8	2.016	31.398	411.3	2.011	32.931	410.9	2.006	34.475	410.4	2.001	115
120	26.438	417.7	2.041	27.913	417.3	2.035	29.397	416.9	2.029	30.890	416.4	2.024	32.393	416.0	2.019	33.905	415.6	2.014	120
125	26.034	422.8	2.053	27.481	422.4	2.048	28.937	422.0	2.042	30.402	421.6	2.037	31.875	421.2	2.032	33.357	420.7	2.027	125
130	25.643	427.9	2.066	27.065	427.5	2.060	28.494	427.1	2.055	29.932	426.7	2.050	31.377	426.3	2.045	32.830	425.9	2.040	130
135	25.266	433.1	2.079	26.663	432.7	2.073	28.067	432.3	2.068	29.478	431.9	2.063	30.897	431.5	2.058	32.323	431.1	2.053	135
140	24.902	438.3	2.092	26.275	437.9	2.086	27.655	437.5	2.080	29.041	437.1	2.075	30.434	436.8	2.070	31.834	436.4	2.065	140
145	24.549	443.5	2.104	25.900	443.1	2.098	27.256	442.8	2.093	28.619	442.4	2.088	29.988	442.0	2.083	31.363	441.6	2.078	145
150	24.208	448.7	2.117	25.537	448.4	2.111	26.871	448.0	2.106	28.210	447.7	2.100	29.556	447.3	2.095	30.908	446.9	2.091	150
155	23.878	454.0	2.129	25.185	453.7	2.123	26.498	453.3	2.118	27.816	453.0	2.113	29.139	452.6	2.108	30.468	452.3	2.103	155
160	23.557	459.3	2.141	24.844	459.0	2.136	26.136	458.6	2.130	27.433	458.3	2.125	28.735	458.0	2.120	30.042	457.6	2.116	160
165	23.247	464.7	2.153	24.514	464.3	2.148	25.786	464.0	2.143	27.063	463.7	2.138	28.345	463.3	2.133	29.631	463.0	2.128	165
170	22.945	470.0	2.166	24.194	469.7	2.160	25.447	469.4	2.155	26.704	469.1	2.150	27.966	468.7	2.145	29.232	468.4	2.140	170
175	22.652	475.4	2.178	23.883	475.1	2.172	25.117	474.8	2.167	26.356	474.5	2.162	27.599	474.2	2.157	28.845	473.9	2.152	175
180	22.368	480.9	2.190	23.581	480.6	2.184	24.798	480.2	2.179	26.018	479.9	2.174	27.242	479.6	2.169	28.470	479.3	2.165	180

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 12

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	12.5			13.0			13.5			14.0			14.5			15.0			
	Dew Point 32.28C			Dew Point 33.71C			Dew Point 35.10C			Dew Point 36.44C			Dew Point 37.75C			Dew Point 39.03C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
35	51.471	330.9	1.768	54.123	330.0	1.762													35
40	49.959	335.8	1.784	52.479	334.9	1.778	55.062	334.1	1.772	57.710	333.2	1.767	60.430	332.3	1.761	63.227	331.4	1.756	40
45	48.567	340.6	1.799	50.972	339.8	1.793	53.430	339.0	1.788	55.944	338.2	1.782	58.517	337.4	1.777	61.155	336.5	1.772	45
50	47.278	345.4	1.814	49.581	344.7	1.809	51.930	343.9	1.803	54.326	343.2	1.798	56.773	342.4	1.793	59.274	341.6	1.788	50
55	46.079	350.3	1.829	48.291	349.6	1.824	50.542	348.9	1.818	52.835	348.1	1.813	55.172	347.4	1.808	57.554	346.6	1.803	55
60	44.959	355.2	1.844	47.089	354.5	1.838	49.253	353.8	1.833	51.454	353.1	1.828	53.692	352.4	1.823	55.970	351.7	1.818	60
65	43.908	360.0	1.858	45.964	359.4	1.853	48.050	358.7	1.848	50.168	358.0	1.843	52.319	357.4	1.838	54.504	356.7	1.833	65
70	42.920	364.9	1.872	44.908	364.3	1.867	46.923	363.6	1.862	48.966	363.0	1.857	51.038	362.4	1.853	53.140	361.7	1.848	70
75	41.988	369.8	1.887	43.913	369.2	1.882	45.863	368.6	1.877	47.838	368.0	1.872	49.838	367.4	1.867	51.865	366.7	1.862	75
80	41.106	374.7	1.901	42.975	374.2	1.896	44.865	373.6	1.891	46.777	373.0	1.886	48.712	372.4	1.881	50.671	371.8	1.877	80
85	40.270	379.7	1.915	42.086	379.1	1.910	43.921	378.6	1.905	45.776	378.0	1.900	47.651	377.4	1.896	49.547	376.9	1.891	85
90	39.477	384.7	1.928	41.244	384.1	1.924	43.028	383.6	1.919	44.829	383.0	1.914	46.650	382.5	1.910	48.488	381.9	1.905	90
95	38.722	389.7	1.942	40.443	389.2	1.937	42.179	388.6	1.933	43.932	388.1	1.928	45.701	387.6	1.924	47.487	387.0	1.919	95
100	38.002	394.7	1.956	39.680	394.2	1.951	41.372	393.7	1.946	43.079	393.2	1.942	44.801	392.7	1.937	46.538	392.2	1.933	100
105	37.315	399.8	1.969	38.953	399.3	1.964	40.604	398.8	1.960	42.268	398.3	1.955	43.945	397.8	1.951	45.637	397.3	1.947	105
110	36.658	404.9	1.983	38.258	404.4	1.978	39.870	403.9	1.973	41.494	403.5	1.969	43.131	403.0	1.965	44.780	402.5	1.960	110
115	36.029	410.0	1.996	37.594	409.5	1.991	39.170	409.1	1.987	40.756	408.6	1.982	42.354	408.2	1.978	43.963	407.7	1.974	115
120	35.426	415.1	2.009	36.958	414.7	2.004	38.499	414.3	2.000	40.050	413.8	1.996	41.611	413.4	1.991	43.183	412.9	1.987	120
125	34.848	420.3	2.022	36.347	419.9	2.018	37.856	419.5	2.013	39.374	419.0	2.009	40.901	418.6	2.005	42.438	418.2	2.000	125
130	34.292	425.5	2.035	35.761	425.1	2.031	37.239	424.7	2.026	38.725	424.3	2.022	40.220	423.8	2.018	41.724	423.4	2.014	130
135	33.757	430.7	2.048	35.198	430.3	2.043	36.646	429.9	2.039	38.103	429.5	2.035	39.567	429.1	2.031	41.039	428.7	2.027	135
140	33.241	436.0	2.061	34.655	435.6	2.056	36.076	435.2	2.052	37.504	434.8	2.048	38.939	434.4	2.044	40.382	434.0	2.040	140
145	32.744	441.3	2.073	34.133	440.9	2.069	35.527	440.5	2.065	36.928	440.1	2.060	38.336	439.8	2.056	39.750	439.4	2.052	145
150	32.265	446.6	2.086	33.628	446.2	2.082	34.998	445.8	2.077	36.373	445.5	2.073	37.755	445.1	2.069	39.142	444.7	2.065	150
155	31.802	451.9	2.099	33.142	451.6	2.094	34.487	451.2	2.090	35.838	450.8	2.086	37.194	450.5	2.082	38.556	450.1	2.078	155
160	31.354	457.3	2.111	32.672	456.9	2.107	33.994	456.6	2.102	35.321	456.2	2.098	36.654	455.9	2.094	37.992	455.5	2.090	160
165	30.921	462.7	2.123	32.217	462.3	2.119	33.517	462.0	2.115	34.822	461.7	2.111	36.132	461.3	2.107	37.446	461.0	2.103	165
170	30.502	468.1	2.136	31.777	467.8	2.131	33.056	467.4	2.127	34.339	467.1	2.123	35.627	466.8	2.119	36.920	466.4	2.115	170
175	30.096	473.5	2.148	31.351	473.2	2.144	32.609	472.9	2.139	33.872	472.6	2.135	35.139	472.3	2.131	36.410	471.9	2.128	175
180	29.702	479.0	2.160	30.938	478.7	2.156	32.177	478.4	2.152	33.420	478.1	2.148	34.667	477.8	2.144	35.918	477.5	2.140	180

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 13

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	15.5			16.0			16.5			17.0			17.5			18.0			
	Dew Point 40.27C			Dew Point 41.48C			Dew Point 42.67C			Dew Point 43.82C			Dew Point 44.95C			Dew Point 46.05C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
45	63.860	335.7	1.766	66.639	334.8	1.761	69.496	333.9	1.756	72.438	332.9	1.751	75.473	332.0	1.746				45
50	61.832	340.8	1.782	64.450	339.9	1.777	67.133	339.1	1.772	69.885	338.2	1.767	72.711	337.3	1.763	75.616	336.4	1.758	50
55	59.985	345.9	1.798	62.466	345.1	1.793	65.001	344.3	1.788	67.593	343.5	1.784	70.246	342.6	1.779	72.963	341.8	1.774	55
60	58.290	350.9	1.813	60.652	350.2	1.809	63.060	349.4	1.804	65.516	348.7	1.799	68.023	347.9	1.795	70.583	347.1	1.790	60
65	56.725	356.0	1.828	58.983	355.3	1.824	61.280	354.6	1.819	63.618	353.8	1.815	65.999	353.1	1.810	68.424	352.3	1.806	65
70	55.273	361.0	1.843	57.438	360.4	1.839	59.638	359.7	1.834	61.872	359.0	1.830	64.143	358.3	1.825	66.452	357.6	1.821	70
75	53.920	366.1	1.858	56.002	365.5	1.853	58.114	364.8	1.849	60.256	364.1	1.845	62.430	363.5	1.841	64.637	362.8	1.836	75
80	52.653	371.2	1.872	54.661	370.6	1.868	56.695	369.9	1.864	58.755	369.3	1.859	60.842	368.7	1.855	62.958	368.0	1.851	80
85	51.465	376.3	1.887	53.405	375.7	1.882	55.367	375.1	1.878	57.353	374.5	1.874	59.363	373.9	1.870	61.398	373.3	1.866	85
90	50.346	381.4	1.901	52.224	380.8	1.897	54.122	380.2	1.892	56.040	379.7	1.888	57.980	379.1	1.884	59.942	378.5	1.880	90
95	49.290	386.5	1.915	51.111	386.0	1.911	52.950	385.4	1.907	54.807	384.9	1.903	56.683	384.3	1.899	58.578	383.7	1.895	95
100	48.290	391.6	1.929	50.058	391.1	1.925	51.843	390.6	1.921	53.643	390.1	1.917	55.461	389.5	1.913	57.296	389.0	1.909	100
105	47.342	396.8	1.943	49.061	396.3	1.938	50.795	395.8	1.934	52.544	395.3	1.931	54.308	394.8	1.927	56.087	394.3	1.923	105
110	46.441	402.0	1.956	48.115	401.5	1.952	49.802	401.0	1.948	51.503	400.5	1.944	53.217	400.1	1.941	54.945	399.6	1.937	110
115	45.583	407.2	1.970	47.215	406.8	1.966	48.859	406.3	1.962	50.515	405.8	1.958	52.183	405.3	1.954	53.864	404.9	1.951	115
120	44.765	412.5	1.983	46.358	412.0	1.979	47.961	411.6	1.975	49.576	411.1	1.972	51.201	410.6	1.968	52.837	410.2	1.964	120
125	43.984	417.7	1.996	45.539	417.3	1.993	47.105	416.9	1.989	48.680	416.4	1.985	50.266	416.0	1.981	51.861	415.5	1.978	125
130	43.236	423.0	2.010	44.757	422.6	2.006	46.287	422.2	2.002	47.825	421.7	1.998	49.373	421.3	1.995	50.931	420.9	1.991	130
135	42.519	428.3	2.023	44.007	427.9	2.019	45.504	427.5	2.015	47.008	427.1	2.011	48.521	426.7	2.008	50.042	426.3	2.004	135
140	41.832	433.6	2.036	43.289	433.2	2.032	44.754	432.8	2.028	46.226	432.4	2.025	47.705	432.0	2.021	49.193	431.6	2.018	140
145	41.171	439.0	2.049	42.599	438.6	2.045	44.034	438.2	2.041	45.475	437.8	2.037	46.924	437.4	2.034	48.379	437.1	2.031	145
150	40.536	444.4	2.061	41.936	444.0	2.058	43.342	443.6	2.054	44.755	443.2	2.050	46.174	442.9	2.047	47.599	442.5	2.043	150
155	39.924	449.8	2.074	41.298	449.4	2.070	42.677	449.0	2.067	44.062	448.7	2.063	45.453	448.3	2.060	46.850	448.0	2.056	155
160	39.335	455.2	2.087	40.683	454.8	2.083	42.037	454.5	2.079	43.396	454.1	2.076	44.760	453.8	2.072	46.130	453.4	2.069	160
165	38.766	460.6	2.099	40.090	460.3	2.095	41.419	460.0	2.092	42.753	459.6	2.088	44.093	459.3	2.085	45.437	458.9	2.082	165
170	38.217	466.1	2.112	39.518	465.8	2.108	40.824	465.5	2.104	42.134	465.1	2.101	43.449	464.8	2.097	44.769	464.5	2.094	170
175	37.686	471.6	2.124	38.965	471.3	2.120	40.249	471.0	2.117	41.536	470.7	2.113	42.828	470.3	2.110	44.124	470.0	2.107	175
180	37.172	477.2	2.136	38.430	476.8	2.133	39.693	476.5	2.129	40.959	476.2	2.126	42.229	475.9	2.122	43.502	475.6	2.119	180

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 14

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	18.5			19.0			19.5			20.0			20.5			21.0			
	Dew Point 47.13C			Dew Point 48.19C			Dew Point 49.23C			Dew Point 50.24C			Dew Point 51.24C			Dew Point 52.21C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
50	78.607	335.5	1.753	81.690	334.5	1.748	84.875	333.5	1.743										50
55	75.749	340.9	1.769	78.609	340.0	1.765	81.547	339.1	1.760	84.571	338.2	1.755	87.687	337.2	1.751	90.903	336.2	1.746	55
60	73.199	346.3	1.786	75.875	345.4	1.781	78.614	344.6	1.777	81.421	343.7	1.772	84.300	342.8	1.768	87.257	341.9	1.763	60
65	70.896	351.6	1.801	73.418	350.8	1.797	75.992	350.0	1.793	78.621	349.2	1.788	81.308	348.4	1.784	84.057	347.5	1.780	65
70	68.800	356.9	1.817	71.190	356.1	1.813	73.624	355.4	1.809	76.103	354.6	1.804	78.630	353.9	1.800	81.208	353.1	1.796	70
75	66.878	362.1	1.832	69.154	361.4	1.828	71.466	360.7	1.824	73.817	360.0	1.820	76.209	359.3	1.816	78.641	358.6	1.812	75
80	65.103	367.4	1.847	67.279	366.7	1.843	69.486	366.1	1.839	71.726	365.4	1.835	74.000	364.7	1.831	76.309	364.0	1.828	80
85	63.458	372.6	1.862	65.545	372.0	1.858	67.659	371.4	1.854	69.801	370.7	1.850	71.972	370.1	1.847	74.174	369.4	1.843	85
90	61.926	377.9	1.877	63.933	377.3	1.873	65.964	376.7	1.869	68.020	376.1	1.865	70.100	375.5	1.862	72.206	374.9	1.858	90
95	60.493	383.2	1.891	62.429	382.6	1.887	64.385	382.0	1.883	66.362	381.4	1.880	68.362	380.9	1.876	70.384	380.3	1.873	95
100	59.148	388.4	1.905	61.018	387.9	1.901	62.907	387.3	1.898	64.814	386.8	1.894	66.741	386.2	1.891	68.688	385.6	1.887	100
105	57.882	393.7	1.919	59.693	393.2	1.916	61.520	392.7	1.912	63.364	392.1	1.909	65.224	391.6	1.905	67.103	391.1	1.902	105
110	56.687	399.1	1.933	58.443	398.5	1.930	60.214	398.0	1.926	62.000	397.5	1.923	63.801	397.0	1.919	65.617	396.5	1.916	110
115	55.557	404.4	1.947	57.263	403.9	1.944	58.982	403.4	1.940	60.714	402.9	1.937	62.460	402.4	1.933	64.220	401.9	1.930	115
120	54.485	409.7	1.961	56.145	409.3	1.957	57.816	408.8	1.954	59.499	408.3	1.950	61.195	407.8	1.947	62.902	407.4	1.944	120
125	53.467	415.1	1.974	55.083	414.6	1.971	56.710	414.2	1.967	58.348	413.7	1.964	59.996	413.3	1.961	61.656	412.8	1.958	125
130	52.497	420.4	1.988	54.073	420.0	1.984	55.659	419.6	1.981	57.254	419.1	1.978	58.859	418.7	1.974	60.474	418.3	1.971	130
135	51.572	425.8	2.001	53.110	425.4	1.998	54.657	425.0	1.994	56.213	424.6	1.991	57.778	424.2	1.988	59.352	423.7	1.985	135
140	50.688	431.2	2.014	52.191	430.8	2.011	53.702	430.4	2.008	55.221	430.0	2.004	56.748	429.6	2.001	58.283	429.2	1.998	140
145	49.842	436.7	2.027	51.312	436.3	2.024	52.789	435.9	2.021	54.273	435.5	2.017	55.764	435.1	2.014	57.263	434.7	2.011	145
150	49.031	442.1	2.040	50.470	441.7	2.037	51.914	441.4	2.034	53.366	441.0	2.030	54.824	440.6	2.027	56.289	440.2	2.024	150
155	48.253	447.6	2.053	49.662	447.2	2.050	51.076	446.9	2.047	52.497	446.5	2.043	53.924	446.1	2.040	55.357	445.7	2.037	155
160	47.505	453.1	2.066	48.886	452.7	2.062	50.272	452.4	2.059	51.664	452.0	2.056	53.061	451.6	2.053	54.464	451.3	2.050	160
165	46.786	458.6	2.078	48.140	458.2	2.075	49.499	457.9	2.072	50.863	457.6	2.069	52.232	457.2	2.066	53.607	456.9	2.063	165
170	46.093	464.1	2.091	47.421	463.8	2.088	48.755	463.5	2.085	50.093	463.1	2.082	51.436	462.8	2.079	52.783	462.4	2.076	170
175	45.425	469.7	2.103	46.729	469.4	2.100	48.038	469.0	2.097	49.351	468.7	2.094	50.669	468.4	2.091	51.991	468.1	2.088	175
180	44.780	475.3	2.116	46.062	475.0	2.113	47.347	474.6	2.110	48.637	474.3	2.107	49.930	474.0	2.104	51.228	473.7	2.101	180

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 15

Temp (°C)	Absolute Pressure (Bara)																		Temp (°C)
	21.5			22.0			22.5			23.0			23.5			24.0			
	Dew Point 53.17C			Dew Point 54.11C			Dew Point 55.03C			Dew Point 55.94C			Dew Point 56.83C			Dew Point 57.71C			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
55	94.227	335.2	1.741	97.671	334.1	1.736													55
60	90.296	341.0	1.759	93.425	340.1	1.754	96.651	339.1	1.750	99.982	338.1	1.745	103.429	337.0	1.741	107.001	336.0	1.736	60
65	86.871	346.7	1.776	89.755	345.8	1.771	92.713	344.9	1.767	95.751	344.0	1.763	98.875	343.1	1.759	102.091	342.1	1.754	65
70	83.838	352.3	1.792	86.524	351.5	1.788	89.269	350.6	1.784	92.077	349.8	1.780	94.951	348.9	1.776	97.895	348.1	1.772	70
75	81.118	357.8	1.808	83.640	357.1	1.804	86.211	356.3	1.800	88.831	355.5	1.796	91.505	354.7	1.793	94.234	353.9	1.789	75
80	78.655	363.3	1.824	81.038	362.6	1.820	83.462	361.9	1.816	85.926	361.1	1.812	88.434	360.4	1.809	90.987	359.7	1.805	80
85	76.406	368.8	1.839	78.670	368.1	1.835	80.968	367.4	1.832	83.301	366.7	1.828	85.669	366.1	1.825	88.075	365.3	1.821	85
90	74.339	374.2	1.854	76.500	373.6	1.851	78.689	373.0	1.847	80.907	372.3	1.844	83.156	371.7	1.840	85.436	371.0	1.837	90
95	72.429	379.7	1.869	74.498	379.1	1.866	76.591	378.4	1.862	78.710	377.8	1.859	80.854	377.2	1.855	83.025	376.6	1.852	95
100	70.654	385.1	1.884	72.642	384.5	1.880	74.650	383.9	1.877	76.680	383.3	1.874	78.733	382.7	1.870	80.808	382.2	1.867	100
105	68.998	390.5	1.898	70.912	390.0	1.895	72.845	389.4	1.892	74.797	388.9	1.888	76.767	388.3	1.885	78.758	387.7	1.882	105
110	67.449	396.0	1.913	69.297	395.5	1.909	71.161	394.9	1.906	73.041	394.4	1.903	74.939	393.9	1.900	76.854	393.3	1.897	110
115	65.993	401.4	1.927	67.781	400.9	1.923	69.583	400.4	1.920	71.400	399.9	1.917	73.231	399.4	1.914	75.078	398.9	1.911	115
120	64.622	406.9	1.941	66.354	406.4	1.937	68.100	405.9	1.934	69.858	405.4	1.931	71.630	404.9	1.928	73.415	404.4	1.925	120
125	63.326	412.3	1.954	65.008	411.9	1.951	66.702	411.4	1.948	68.407	411.0	1.945	70.124	410.5	1.942	71.852	410.0	1.939	125
130	62.099	417.8	1.968	63.734	417.4	1.965	65.380	416.9	1.962	67.036	416.5	1.959	68.702	416.0	1.956	70.379	415.6	1.953	130
135	60.934	423.3	1.982	62.526	422.9	1.979	64.127	422.4	1.976	65.738	422.0	1.973	67.358	421.6	1.970	68.987	421.1	1.967	135
140	59.826	428.8	1.995	61.378	428.4	1.992	62.937	428.0	1.989	64.506	427.5	1.986	66.083	427.1	1.983	67.668	426.7	1.980	140
145	58.770	434.3	2.008	60.284	433.9	2.005	61.805	433.5	2.002	63.334	433.1	2.000	64.871	432.7	1.997	66.415	432.3	1.994	145
150	57.761	439.8	2.021	59.240	439.4	2.018	60.725	439.1	2.016	62.217	438.7	2.013	63.717	438.3	2.010	65.223	437.9	2.007	150
155	56.796	445.4	2.034	58.242	445.0	2.032	59.694	444.6	2.029	61.152	444.2	2.026	62.616	443.9	2.023	64.087	443.5	2.020	155
160	55.873	450.9	2.047	57.287	450.6	2.044	58.707	450.2	2.042	60.132	449.8	2.039	61.564	449.5	2.036	63.001	449.1	2.033	160
165	54.986	456.5	2.060	56.371	456.2	2.057	57.761	455.8	2.054	59.156	455.5	2.052	60.557	455.1	2.049	61.962	454.8	2.046	165
170	54.135	462.1	2.073	55.492	461.8	2.070	56.854	461.4	2.067	58.220	461.1	2.065	59.591	460.8	2.062	60.968	460.4	2.059	170
175	53.317	467.7	2.085	54.647	467.4	2.083	55.982	467.1	2.080	57.321	466.7	2.077	58.665	466.4	2.075	60.013	466.1	2.072	175
180	52.529	473.4	2.098	53.834	473.1	2.095	55.144	472.7	2.092	56.457	472.4	2.090	57.775	472.1	2.087	59.096	471.8	2.085	180

KLEA 407C Superheated Vapour Properties (D = Density in kg/m³, H = Enthalpy in kJ/kg, S = Entropy in kJ/kg.K) Table 2 Sheet 16

Temp (°C)	Absolute Pressure (Bara)							Temp (°C)
	24.5			25.0				
	Dew Point 58.57C			Dew Point 59.42C				
	D	H	S	D	H	S		
60	110.713	334.8	1.731	114.581	333.7	1.726		60
65	105.406	341.1	1.750	108.830	340.1	1.746		65
70	100.915	347.2	1.768	104.014	346.3	1.764		70
75	97.022	353.1	1.785	99.872	352.2	1.781		75
80	93.588	358.9	1.801	96.237	358.1	1.798		80
85	90.519	364.6	1.817	93.004	363.9	1.814		85
90	87.748	370.3	1.833	90.093	369.6	1.830		90
95	85.223	376.0	1.849	87.450	375.3	1.845		95
100	82.907	381.5	1.864	85.030	380.9	1.861		100
105	80.769	387.2	1.879	82.800	386.6	1.876		105
110	78.787	392.8	1.893	80.737	392.2	1.890		110
115	76.940	398.4	1.908	78.819	397.8	1.905		115
120	75.214	404.0	1.922	77.027	403.5	1.919		120
125	73.593	409.5	1.936	75.347	409.1	1.933		125
130	72.067	415.1	1.950	73.766	414.7	1.947		130
135	70.626	420.7	1.964	72.275	420.3	1.961		135
140	69.262	426.3	1.978	70.865	425.9	1.975		140
145	67.968	431.9	1.991	69.528	431.5	1.988		145
150	66.737	437.5	2.004	68.257	437.1	2.002		150
155	65.564	443.1	2.018	67.047	442.7	2.015		155
160	64.444	448.8	2.031	65.893	448.4	2.028		160
165	63.374	454.4	2.044	64.790	454.0	2.041		165
170	62.348	460.1	2.057	63.734	459.7	2.054		170
175	61.365	465.8	2.069	62.722	465.4	2.067		175
180	60.421	471.5	2.082	61.751	471.1	2.079		180

KLEA® 407C

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