

KLEA® 32



Thermodynamic Property Data SI Units

KLEA 32

Saturation Properties

HFC 32 Saturation Properties (SI Units)

Temp (°C)	Absolute Pressure bar	Density		Enthalpy			Entropy		Temp (K)
		(kg/m ³)		kJ/kg			kJ/(kg K)		
		Liquid	Vapour	Liquid	Latent	Vapour	Liquid	Vapour	
-80	0.1871	1289.99	0.614	-29.100	410.502	381.401	0.445	2.571	193.15
-79	0.2005	1287.41	0.655	-27.554	409.550	381.996	0.453	2.563	194.15
-78	0.2147	1284.82	0.698	-26.007	408.596	382.589	0.461	2.555	195.15
-77	0.2298	1282.23	0.744	-24.459	407.638	383.180	0.469	2.547	196.15
-76	0.2457	1279.63	0.792	-22.910	406.677	383.768	0.477	2.540	197.15
-75	0.2625	1277.02	0.843	-21.360	405.713	384.353	0.485	2.532	198.15
-74	0.2802	1274.41	0.896	-19.809	404.746	384.936	0.493	2.525	199.15
-73	0.2989	1271.79	0.951	-18.258	403.774	385.516	0.500	2.518	200.15
-72	0.3186	1269.16	1.010	-16.705	402.799	386.094	0.508	2.511	201.15
-71	0.3394	1266.53	1.071	-15.152	401.820	386.668	0.516	2.504	202.15
-70	0.3613	1263.89	1.136	-13.597	400.837	387.240	0.524	2.497	203.15
-69	0.3843	1261.25	1.203	-12.041	399.850	387.808	0.531	2.490	204.15
-68	0.4085	1258.59	1.274	-10.485	398.859	388.374	0.539	2.483	205.15
-67	0.4339	1255.93	1.348	-8.927	397.863	388.936	0.546	2.476	206.15
-66	0.4606	1253.27	1.426	-7.368	396.862	389.495	0.554	2.470	207.15
-65	0.4886	1250.60	1.507	-5.807	395.857	390.050	0.561	2.463	208.15
-64	0.5180	1247.92	1.591	-4.246	394.848	390.602	0.569	2.457	209.15
-63	0.5488	1245.23	1.680	-2.683	393.833	391.150	0.576	2.450	210.15
-62	0.5810	1242.53	1.772	-1.119	392.814	391.695	0.584	2.444	211.15
-61	0.6148	1239.83	1.868	0.447	391.789	392.236	0.591	2.438	212.15
-60	0.6502	1237.12	1.968	2.014	390.759	392.773	0.598	2.432	213.15
-59	0.6871	1234.40	2.073	3.582	389.724	393.306	0.606	2.426	214.15
-58	0.7258	1231.68	2.182	5.151	388.684	393.835	0.613	2.420	215.15
-57	0.7661	1228.95	2.296	6.723	387.638	394.360	0.620	2.414	216.15
-56	0.8083	1226.21	2.414	8.295	386.586	394.881	0.628	2.408	217.15
-55	0.8523	1223.46	2.537	9.869	385.528	395.398	0.635	2.402	218.15
-54	0.8982	1220.70	2.665	11.445	384.465	395.910	0.642	2.396	219.15
-53	0.9460	1217.94	2.798	13.022	383.396	396.418	0.649	2.391	220.15
-52	0.9959	1215.16	2.937	14.601	382.321	396.922	0.656	2.385	221.15
-51	1.0478	1212.38	3.080	16.182	381.239	397.421	0.663	2.380	222.15
-50	1.1019	1209.59	3.230	17.764	380.151	397.915	0.671	2.374	223.15
-49	1.1582	1206.79	3.385	19.348	379.057	398.405	0.678	2.369	224.15
-48	1.2167	1203.99	3.546	20.934	377.956	398.890	0.685	2.363	225.15
-47	1.2776	1201.17	3.712	22.521	376.849	399.370	0.692	2.358	226.15
-46	1.3408	1198.35	3.885	24.110	375.735	399.846	0.699	2.353	227.15

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Temp (°C)	Absolute Pressure bar	Density		Enthalpy			Entropy		Temp (K)
		(kg/m ³)		kJ/kg			kJ/(kg K)		
		Liquid	Vapour	Liquid	Latent	Vapour	Liquid	Vapour	
-45	1.4066	1195.51	4.065	25.702	374.614	400.316	0.706	2.348	228.15
-44	1.4748	1192.67	4.251	27.295	373.487	400.781	0.713	2.342	229.15
-43	1.5456	1189.81	4.443	28.890	372.352	401.241	0.719	2.337	230.15
-42	1.6191	1186.95	4.642	30.486	371.210	401.696	0.726	2.332	231.15
-41	1.6953	1184.08	4.849	32.085	370.061	402.146	0.733	2.327	232.15
-40	1.7744	1181.20	5.062	33.686	368.905	402.591	0.740	2.322	233.15
-39	1.8563	1178.30	5.283	35.289	367.741	403.030	0.747	2.317	234.15
-38	1.9411	1175.40	5.512	36.894	366.569	403.463	0.754	2.313	235.15
-37	2.0289	1172.49	5.748	38.501	365.390	403.892	0.760	2.308	236.15
-36	2.1199	1169.57	5.993	40.111	364.203	404.314	0.767	2.303	237.15
-35	2.2140	1166.63	6.245	41.723	363.008	404.731	0.774	2.298	238.15
-34	2.3113	1163.69	6.506	43.337	361.806	405.142	0.781	2.294	239.15
-33	2.4120	1160.73	6.775	44.953	360.595	405.547	0.787	2.289	240.15
-32	2.5160	1157.77	7.053	46.572	359.375	405.947	0.794	2.284	241.15
-31	2.6235	1154.79	7.341	48.193	358.148	406.340	0.801	2.280	242.15
-30	2.7346	1151.80	7.637	49.816	356.912	406.728	0.807	2.275	243.15
-29	2.8492	1148.80	7.943	51.442	355.667	407.109	0.814	2.271	244.15
-28	2.9676	1145.78	8.258	53.071	354.414	407.485	0.821	2.266	245.15
-27	3.0898	1142.76	8.584	54.703	353.151	407.854	0.827	2.262	246.15
-26	3.2158	1139.72	8.919	56.337	351.880	408.217	0.834	2.258	247.15
-25	3.3458	1136.67	9.265	57.973	350.600	408.573	0.840	2.253	248.15
-24	3.4798	1133.61	9.621	59.613	349.310	408.923	0.847	2.249	249.15
-23	3.6179	1130.53	9.989	61.256	348.011	409.266	0.854	2.245	250.15
-22	3.7602	1127.44	10.367	62.901	346.702	409.603	0.860	2.240	251.15
-21	3.9068	1124.34	10.757	64.550	345.384	409.934	0.867	2.236	252.15
-20	4.0578	1121.23	11.159	66.201	344.056	410.257	0.873	2.232	253.15
-19	4.2132	1118.10	11.572	67.856	342.718	410.574	0.879	2.228	254.15
-18	4.3732	1114.95	11.998	69.514	341.369	410.883	0.886	2.224	255.15
-17	4.5377	1111.79	12.436	71.175	340.011	411.186	0.892	2.220	256.15
-16	4.7071	1108.62	12.887	72.840	338.642	411.482	0.899	2.216	257.15
-15	4.8812	1105.43	13.351	74.508	337.262	411.770	0.905	2.212	258.15
-14	5.0602	1102.23	13.828	76.179	335.872	412.051	0.912	2.208	259.15
-13	5.2442	1099.01	14.319	77.855	334.470	412.325	0.918	2.204	260.15
-12	5.4333	1095.78	14.824	79.534	333.058	412.591	0.924	2.200	261.15
-11	5.6275	1092.53	15.343	81.216	331.634	412.850	0.931	2.196	262.15

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		(kg/m ³)		kJ/kg			kJ/(kg K)		
		Liquid	Vapour	Liquid	Latent	Vapour	Liquid	Vapour	
-10	5.8270	1089.26	15.878	82.903	330.199	413.101	0.937	2.192	263.15
-9	6.0319	1085.98	16.427	84.593	328.752	413.345	0.943	2.188	264.15
-8	6.2422	1082.68	16.991	86.287	327.293	413.580	0.950	2.184	265.15
-7	6.4581	1079.36	17.572	87.986	325.822	413.808	0.956	2.180	266.15
-6	6.6796	1076.03	18.168	89.689	324.339	414.027	0.962	2.176	267.15
-5	6.9069	1072.67	18.781	91.396	322.843	414.239	0.969	2.173	268.15
-4	7.1399	1069.30	19.411	93.107	321.334	414.442	0.975	2.169	269.15
-3	7.3789	1065.91	20.058	94.824	319.813	414.636	0.981	2.165	270.15
-2	7.6240	1062.50	20.723	96.544	318.278	414.822	0.988	2.161	271.15
-1	7.8752	1059.07	21.406	98.270	316.730	414.999	0.994	2.158	272.15
0	8.1325	1055.63	22.108	100.000	315.168	415.168	1.000	2.154	273.15
1	8.3963	1052.16	22.829	101.735	313.592	415.327	1.006	2.150	274.15
2	8.6664	1048.66	23.569	103.476	312.002	415.478	1.013	2.146	275.15
3	8.9431	1045.15	24.329	105.221	310.398	415.619	1.019	2.143	276.15
4	9.2264	1041.62	25.110	106.972	308.778	415.750	1.025	2.139	277.15
5	9.5165	1038.06	25.912	108.729	307.144	415.873	1.031	2.135	278.15
6	9.8134	1034.48	26.736	110.491	305.494	415.985	1.037	2.132	279.15
7	10.1172	1030.88	27.582	112.258	303.829	416.087	1.044	2.128	280.15
8	10.4281	1027.25	28.450	114.032	302.147	416.179	1.050	2.125	281.15
9	10.7462	1023.60	29.342	115.812	300.450	416.261	1.056	2.121	282.15
10	11.0715	1019.92	30.258	117.597	298.735	416.333	1.062	2.117	283.15
11	11.4042	1016.22	31.198	119.390	297.004	416.394	1.069	2.114	284.15
12	11.7444	1012.49	32.164	121.188	295.255	416.443	1.075	2.110	285.15
13	12.0922	1008.74	33.155	122.994	293.488	416.482	1.081	2.107	286.15
14	12.4477	1004.95	34.173	124.806	291.703	416.509	1.087	2.103	287.15
15	12.8110	1001.14	35.219	126.625	289.900	416.525	1.093	2.099	288.15
16	13.1822	997.30	36.292	128.451	288.077	416.529	1.099	2.096	289.15
17	13.5615	993.42	37.395	130.285	286.235	416.520	1.106	2.092	290.15
18	13.9489	989.52	38.527	132.126	284.373	416.499	1.112	2.089	291.15
19	14.3446	985.59	39.690	133.976	282.490	416.466	1.118	2.085	292.15
20	14.7487	981.62	40.885	135.833	280.587	416.419	1.124	2.081	293.15
21	15.1613	977.61	42.112	137.698	278.662	416.360	1.131	2.078	294.15
22	15.5826	973.58	43.373	139.572	276.715	416.286	1.137	2.074	295.15
23	16.0125	969.50	44.668	141.454	274.745	416.199	1.143	2.071	296.15
24	16.4514	965.39	45.998	143.345	272.752	416.097	1.149	2.067	297.15

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Temp (°C)	Absolute Pressure bar	Density		Enthalpy			Entropy		Temp (K)
		(kg/m ³)		kJ/kg			kJ/(kg K)		
		Liquid	Vapour	Liquid	Latent	Vapour	Liquid	Vapour	
25	16.8993	961.25	47.366	145.246	270.735	415.981	1.155	2.063	298.15
26	17.3562	957.06	48.771	147.156	268.693	415.849	1.162	2.060	299.15
27	17.8225	952.83	50.215	149.076	266.627	415.702	1.168	2.056	300.15
28	18.2980	948.56	51.700	151.005	264.534	415.539	1.174	2.053	301.15
29	18.7831	944.25	53.227	152.945	262.414	415.360	1.180	2.049	302.15
30	19.2779	939.89	54.797	154.896	260.267	415.163	1.187	2.045	303.15
31	19.7823	935.48	56.412	156.857	258.092	414.949	1.193	2.042	304.15
32	20.2967	931.03	58.073	158.830	255.887	414.718	1.199	2.038	305.15
33	20.8211	926.53	59.782	160.815	253.652	414.467	1.206	2.034	306.15
34	21.3557	921.97	61.541	162.812	251.386	414.198	1.212	2.030	307.15
35	21.9006	917.37	63.352	164.821	249.088	413.909	1.218	2.027	308.15
36	22.4559	912.70	65.217	166.843	246.756	413.600	1.225	2.023	309.15
37	23.0218	907.98	67.137	168.879	244.390	413.269	1.231	2.019	310.15
38	23.5985	903.20	69.116	170.928	241.988	412.917	1.237	2.015	311.15
39	24.1860	898.36	71.155	172.992	239.549	412.542	1.244	2.011	312.15
40	24.7846	893.45	73.258	175.071	237.072	412.143	1.250	2.007	313.15
41	25.3944	888.47	75.426	177.166	234.554	411.720	1.257	2.003	314.15
42	26.0154	883.42	77.663	179.276	231.995	411.272	1.263	1.999	315.15
43	26.6480	878.29	79.972	181.404	229.393	410.797	1.270	1.995	316.15
44	27.2923	873.09	82.357	183.549	226.746	410.295	1.276	1.991	317.15
45	27.9484	867.81	84.820	185.712	224.052	409.764	1.283	1.987	318.15
46	28.6164	862.44	87.366	187.895	221.308	409.203	1.289	1.983	319.15
47	29.2966	856.97	90.000	190.098	218.514	408.611	1.296	1.979	320.15
48	29.9892	851.42	92.725	192.321	215.665	407.986	1.303	1.974	321.15
49	30.6943	845.76	95.546	194.567	212.760	407.327	1.309	1.970	322.15
50	31.4120	839.99	98.469	196.836	209.796	406.632	1.316	1.965	323.15
51	32.1427	834.12	101.501	199.129	206.770	405.899	1.323	1.961	324.15
52	32.8864	828.12	104.646	201.449	203.678	405.126	1.330	1.956	325.15
53	33.6434	821.99	107.913	203.795	200.516	404.311	1.337	1.952	326.15
54	34.4139	815.73	111.309	206.170	197.281	403.451	1.344	1.947	327.15
55	35.1981	809.32	114.843	208.577	193.967	402.544	1.351	1.942	328.15
56	35.9962	802.76	118.524	211.016	190.571	401.587	1.358	1.937	329.15
57	36.8084	796.03	122.362	213.490	187.087	400.576	1.365	1.932	330.15
58	37.6349	789.12	126.371	216.001	183.507	399.508	1.372	1.927	331.15
59	38.4761	782.01	130.562	218.553	179.826	398.379	1.380	1.921	332.15

HFC 32 Saturation Properties (SI Units)

Temp (°C)	Absolute Pressure bar	Density		Enthalpy			Entropy		Temp (K)
		(kg/m ³)		kJ/kg			kJ/(kg K)		
		Liquid	Vapour	Liquid	Latent	Vapour	Liquid	Vapour	
60	39.3321	774.69	134.952	221.149	176.035	397.184	1.387	1.916	333.15
61	40.2032	767.14	139.557	223.792	172.126	395.918	1.395	1.910	334.15
62	41.0896	759.33	144.398	226.486	168.089	394.575	1.403	1.904	335.15
63	41.9918	751.24	149.497	229.238	163.911	393.148	1.410	1.898	336.15
64	42.9099	742.83	154.881	232.051	159.579	391.630	1.418	1.892	337.15
65	43.8443	734.08	160.581	234.935	155.076	390.011	1.427	1.885	338.15
66	44.7953	724.93	166.634	237.895	150.384	388.280	1.435	1.878	339.15
67	45.7632	715.33	173.085	240.944	145.479	386.424	1.443	1.871	340.15
68	46.7485	705.21	179.990	244.094	140.333	384.427	1.452	1.864	341.15
69	47.7516	694.49	187.416	247.359	134.911	382.270	1.461	1.856	342.15
70	48.7729	683.05	195.448	250.763	129.165	379.928	1.471	1.847	343.15
71	49.8129	670.74	204.201	254.331	123.038	377.369	1.481	1.838	344.15
72	50.8723	657.36	213.823	258.104	116.447	374.552	1.491	1.829	345.15
73	51.9515	642.58	224.524	262.138	109.278	371.416	1.503	1.818	346.15
74	53.0515	625.95	236.610	266.521	101.355	367.876	1.515	1.807	347.15
75	54.1732	606.63	250.564	271.407	92.392	363.799	1.528	1.794	348.15
76	55.3178	583.01	267.232	277.101	81.850	358.951	1.544	1.778	349.15
77	56.4872	550.85	288.385	284.410	68.432	352.842	1.564	1.760	350.15
78	57.6857	482.07	453.880	302.480	5.506	307.986	1.615	1.631	351.15

KLEA 32

Superheated Vapour Properties

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	0.4 bar			0.6 bar			0.8 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-68	1.247	388.436	2.487							205.15
-66	1.234	389.925	2.494							207.15
-64	1.221	391.417	2.501							209.15
-62	1.209	392.912	2.508							211.15
-60	1.196	394.409	2.515	1.812	393.104	2.446				213.15
-58	1.184	395.908	2.522	1.793	394.642	2.453				215.15
-56	1.173	397.410	2.529	1.775	396.182	2.460	2.389	394.933	2.410	217.15
-54	1.161	398.916	2.536	1.757	397.723	2.467	2.364	396.512	2.417	219.15
-52	1.150	400.423	2.543	1.740	399.266	2.474	2.339	398.091	2.424	221.15
-50	1.139	401.934	2.550	1.722	400.810	2.481	2.315	399.670	2.431	223.15
-48	1.128	403.448	2.556	1.706	402.357	2.488	2.292	401.249	2.438	225.15
-46	1.118	404.965	2.563	1.689	403.905	2.495	2.269	402.829	2.445	227.15
-44	1.108	406.486	2.570	1.673	405.455	2.502	2.247	404.410	2.452	229.15
-42	1.097	408.009	2.576	1.657	407.007	2.508	2.226	405.992	2.459	231.15
-40	1.087	409.536	2.583	1.642	408.562	2.515	2.204	407.576	2.466	233.15
-38	1.078	411.066	2.590	1.627	410.119	2.522	2.184	409.160	2.473	235.15
-36	1.068	412.600	2.596	1.612	411.678	2.528	2.163	410.746	2.479	237.15
-34	1.059	414.137	2.602	1.598	413.240	2.535	2.143	412.334	2.486	239.15
-32	1.050	415.678	2.609	1.584	414.805	2.541	2.124	413.923	2.493	241.15
-30	1.041	417.222	2.615	1.570	416.373	2.548	2.105	415.514	2.499	243.15
-28	1.032	418.770	2.622	1.556	417.943	2.554	2.086	417.108	2.506	245.15
-26	1.023	420.322	2.628	1.543	419.517	2.561	2.068	418.704	2.512	247.15
-24	1.015	421.878	2.634	1.530	421.093	2.567	2.050	420.301	2.519	249.15
-22	1.006	423.438	2.640	1.517	422.673	2.573	2.032	421.902	2.525	251.15
-20	0.998	425.002	2.647	1.504	424.256	2.580	2.015	423.505	2.531	253.15
-18	0.990	426.569	2.653	1.492	425.843	2.586	1.998	425.110	2.538	255.15
-16	0.982	428.141	2.659	1.479	427.433	2.592	1.981	426.719	2.544	257.15
-14	0.974	429.717	2.665	1.467	429.026	2.598	1.965	428.330	2.550	259.15
-12	0.966	431.297	2.671	1.456	430.623	2.604	1.949	429.944	2.556	261.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	0.4 bar			0.6 bar			0.8 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-10	0.959	432.881	2.677	1.444	432.224	2.610	1.933	431.562	2.563	263.15
-8	0.951	434.470	2.683	1.433	433.828	2.617	1.918	433.182	2.569	265.15
-6	0.944	436.063	2.689	1.421	435.437	2.623	1.902	434.806	2.575	267.15
-4	0.937	437.660	2.695	1.410	437.049	2.629	1.887	436.434	2.581	269.15
-2	0.930	439.262	2.701	1.399	438.665	2.635	1.873	438.064	2.587	271.15
0	0.923	440.868	2.707	1.389	440.285	2.641	1.858	439.699	2.593	273.15
2	0.916	442.479	2.713	1.378	441.910	2.646	1.844	441.337	2.599	275.15
4	0.909	444.095	2.719	1.368	443.538	2.652	1.830	442.978	2.605	277.15
6	0.902	445.715	2.724	1.358	445.171	2.658	1.816	444.624	2.611	279.15
8	0.896	447.340	2.730	1.348	446.808	2.664	1.803	446.273	2.617	281.15
10	0.889	448.969	2.736	1.338	448.449	2.670	1.789	447.927	2.623	283.15
12	0.883	450.604	2.742	1.328	450.095	2.676	1.776	449.584	2.628	285.15
14	0.877	452.243	2.748	1.319	451.746	2.681	1.763	451.246	2.634	287.15
16	0.870	453.887	2.753	1.309	453.401	2.687	1.751	452.912	2.640	289.15
18	0.864	455.536	2.759	1.300	455.060	2.693	1.738	454.582	2.646	291.15
20	0.858	457.191	2.765	1.291	456.724	2.699	1.726	456.256	2.651	293.15
22	0.852	458.850	2.770	1.282	458.393	2.704	1.714	457.935	2.657	295.15
24	0.846	460.514	2.776	1.273	460.067	2.710	1.702	459.619	2.663	297.15
26	0.841	462.184	2.781	1.264	461.746	2.716	1.690	461.307	2.669	299.15
28	0.835	463.858	2.787	1.256	463.429	2.721	1.678	462.999	2.674	301.15
30	0.829	465.538	2.793	1.247	465.118	2.727	1.667	464.696	2.680	303.15
32	0.824	467.223	2.798	1.239	466.812	2.732	1.655	466.398	2.685	305.15
34	0.818	468.914	2.804	1.230	468.510	2.738	1.644	468.105	2.691	307.15
36	0.813	470.610	2.809	1.222	470.214	2.743	1.633	469.817	2.697	309.15
38	0.808	472.311	2.815	1.214	471.923	2.749	1.622	471.534	2.702	311.15
40	0.803	474.018	2.820	1.206	473.637	2.754	1.612	473.255	2.708	313.15
42	0.797	475.730	2.826	1.198	475.357	2.760	1.601	474.982	2.713	315.15
44	0.792	477.448	2.831	1.191	477.081	2.765	1.591	476.714	2.719	317.15
46	0.787	479.171	2.836	1.183	478.812	2.771	1.581	478.451	2.724	319.15
48	0.782	480.900	2.842	1.176	480.547	2.776	1.570	480.194	2.729	321.15
50	0.777	482.635	2.847	1.168	482.289	2.782	1.560	481.941	2.735	323.15
52	0.773	484.376	2.853	1.161	484.035	2.787	1.551	483.694	2.740	325.15
54	0.768	486.122	2.858	1.154	485.788	2.792	1.541	485.453	2.746	327.15
56	0.763	487.874	2.863	1.146	487.546	2.798	1.531	487.217	2.751	329.15
58	0.758	489.632	2.869	1.139	489.309	2.803	1.522	488.986	2.756	331.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	1.0 bar			1.1 bar			1.2 bar			1.3 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-48	2.888	400.126	2.399	3.190	399.558	2.382	3.494	398.986	2.366				225.15
-46	2.859	401.739	2.406	3.157	401.189	2.389	3.458	400.634	2.373	3.761	400.075	2.358	227.15
-44	2.830	403.352	2.413	3.125	402.818	2.396	3.422	402.280	2.380	3.721	401.738	2.366	229.15
-42	2.802	404.965	2.420	3.093	404.446	2.403	3.387	403.924	2.387	3.683	403.398	2.373	231.15
-40	2.774	406.578	2.427	3.063	406.074	2.410	3.353	405.567	2.395	3.645	405.057	2.380	233.15
-38	2.748	408.190	2.434	3.033	407.701	2.417	3.320	407.209	2.402	3.608	406.714	2.387	235.15
-36	2.721	409.804	2.441	3.003	409.328	2.424	3.287	408.850	2.409	3.573	408.369	2.394	237.15
-34	2.696	411.417	2.447	2.975	410.956	2.431	3.255	410.491	2.415	3.538	410.024	2.401	239.15
-32	2.671	413.032	2.454	2.947	412.583	2.438	3.224	412.132	2.422	3.504	411.678	2.408	241.15
-30	2.646	414.648	2.461	2.919	414.211	2.444	3.194	413.772	2.429	3.470	413.331	2.415	243.15
-28	2.622	416.265	2.467	2.893	415.840	2.451	3.164	415.413	2.436	3.438	414.984	2.422	245.15
-26	2.599	417.883	2.474	2.866	417.470	2.458	3.135	417.055	2.442	3.406	416.637	2.428	247.15
-24	2.576	419.503	2.481	2.841	419.101	2.464	3.107	418.697	2.449	3.375	418.291	2.435	249.15
-22	2.553	421.124	2.487	2.815	420.733	2.471	3.079	420.339	2.456	3.344	419.945	2.442	251.15
-20	2.531	422.747	2.494	2.791	422.366	2.477	3.052	421.983	2.462	3.315	421.599	2.448	253.15
-18	2.509	424.372	2.500	2.767	424.001	2.484	3.025	423.628	2.469	3.285	423.254	2.455	255.15
-16	2.488	426.000	2.506	2.743	425.638	2.490	2.999	425.275	2.475	3.257	424.910	2.461	257.15
-14	2.467	427.629	2.513	2.720	427.277	2.496	2.974	426.923	2.481	3.229	426.568	2.468	259.15
-12	2.447	429.261	2.519	2.697	428.917	2.503	2.948	428.573	2.488	3.201	428.227	2.474	261.15
-10	2.426	430.895	2.525	2.675	430.560	2.509	2.924	430.224	2.494	3.174	429.887	2.480	263.15
-8	2.407	432.532	2.531	2.653	432.206	2.515	2.900	431.878	2.500	3.148	431.549	2.487	265.15
-6	2.387	434.172	2.537	2.631	433.853	2.521	2.876	433.534	2.507	3.122	433.213	2.493	267.15
-4	2.368	435.815	2.544	2.610	435.504	2.527	2.853	435.192	2.513	3.096	434.879	2.499	269.15
-2	2.349	437.460	2.550	2.589	437.157	2.534	2.830	436.852	2.519	3.071	436.547	2.505	271.15
0	2.331	439.109	2.556	2.569	438.813	2.540	2.807	438.516	2.525	3.047	438.218	2.511	273.15
2	2.313	440.761	2.562	2.549	440.471	2.546	2.785	440.181	2.531	3.023	439.891	2.517	275.15
4	2.295	442.416	2.568	2.529	442.133	2.552	2.764	441.850	2.537	2.999	441.566	2.524	277.15
6	2.278	444.074	2.574	2.510	443.798	2.558	2.742	443.522	2.543	2.976	443.244	2.530	279.15
8	2.260	445.736	2.580	2.490	445.467	2.564	2.721	445.196	2.549	2.953	444.925	2.536	281.15
10	2.244	447.402	2.586	2.472	447.138	2.570	2.701	446.874	2.555	2.930	446.609	2.542	283.15
12	2.227	449.071	2.591	2.453	448.813	2.575	2.680	448.555	2.561	2.908	448.296	2.547	285.15
14	2.211	450.744	2.597	2.435	450.492	2.581	2.660	450.240	2.567	2.886	449.987	2.553	287.15
16	2.194	452.421	2.603	2.417	452.174	2.587	2.641	451.928	2.573	2.865	451.680	2.559	289.15
18	2.179	454.101	2.609	2.400	453.861	2.593	2.621	453.619	2.578	2.844	453.377	2.565	291.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	1.0 bar			1.1 bar			1.2 bar			1.3 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
20	2.163	455.786	2.615	2.382	455.550	2.599	2.602	455.314	2.584	2.823	455.077	2.571	293.15
22	2.148	457.475	2.620	2.365	457.244	2.605	2.584	457.013	2.590	2.803	456.782	2.577	295.15
24	2.132	459.168	2.626	2.349	458.942	2.610	2.565	458.716	2.596	2.783	458.489	2.582	297.15
26	2.117	460.866	2.632	2.332	460.644	2.616	2.547	460.423	2.602	2.763	460.201	2.588	299.15
28	2.103	462.567	2.637	2.316	462.351	2.622	2.529	462.134	2.607	2.744	461.916	2.594	301.15
30	2.088	464.273	2.643	2.300	464.061	2.627	2.512	463.849	2.613	2.724	463.636	2.600	303.15
32	2.074	465.984	2.649	2.284	465.776	2.633	2.494	465.568	2.619	2.705	465.359	2.605	305.15
34	2.060	467.699	2.654	2.268	467.495	2.639	2.477	467.291	2.624	2.687	467.087	2.611	307.15
36	2.046	469.419	2.660	2.253	469.219	2.644	2.461	469.019	2.630	2.669	468.819	2.617	309.15
38	2.032	471.143	2.665	2.238	470.948	2.650	2.444	470.752	2.635	2.651	470.555	2.622	311.15
40	2.019	472.873	2.671	2.223	472.681	2.655	2.428	472.489	2.641	2.633	472.296	2.628	313.15
42	2.006	474.607	2.677	2.208	474.419	2.661	2.412	474.230	2.647	2.615	474.041	2.633	315.15
44	1.992	476.346	2.682	2.194	476.161	2.666	2.396	475.976	2.652	2.598	475.791	2.639	317.15
46	1.979	478.090	2.687	2.180	477.909	2.672	2.380	477.727	2.658	2.581	477.546	2.644	319.15
48	1.967	479.839	2.693	2.165	479.661	2.677	2.365	479.483	2.663	2.564	479.305	2.650	321.15
50	1.954	481.593	2.698	2.152	481.419	2.683	2.349	481.244	2.668	2.547	481.069	2.655	323.15
52	1.942	483.353	2.704	2.138	483.181	2.688	2.334	483.010	2.674	2.531	482.838	2.661	325.15
54	1.929	485.117	2.709	2.124	484.949	2.694	2.319	484.781	2.679	2.515	484.612	2.666	327.15
56	1.917	486.887	2.715	2.111	486.722	2.699	2.305	486.556	2.685	2.499	486.391	2.672	329.15
58	1.905	488.662	2.720	2.098	488.500	2.704	2.290	488.338	2.690	2.483	488.175	2.677	331.15
60	1.894	490.443	2.725	2.085	490.284	2.710	2.276	490.124	2.696	2.468	489.964	2.682	333.15
62	1.882	492.229	2.731	2.072	492.073	2.715	2.262	491.916	2.701	2.453	491.759	2.688	335.15
64	1.870	494.021	2.736	2.059	493.867	2.720	2.248	493.713	2.706	2.437	493.558	2.693	337.15
66	1.859	495.818	2.741	2.047	495.667	2.726	2.234	495.515	2.712	2.423	495.364	2.698	339.15
68	1.848	497.621	2.747	2.034	497.472	2.731	2.221	497.323	2.717	2.408	497.174	2.704	341.15
70	1.837	499.430	2.752	2.022	499.284	2.736	2.208	499.137	2.722	2.393	498.990	2.709	343.15
72	1.826	501.244	2.757	2.010	501.100	2.742	2.194	500.956	2.727	2.379	500.812	2.714	345.15
74	1.815	503.065	2.762	1.998	502.923	2.747	2.181	502.781	2.733	2.365	502.639	2.720	347.15
76	1.805	504.891	2.768	1.986	504.751	2.752	2.168	504.612	2.738	2.351	504.472	2.725	349.15
78	1.794	506.723	2.773	1.975	506.586	2.757	2.156	506.448	2.743	2.337	506.311	2.730	351.15
80	1.784	508.561	2.778	1.963	508.426	2.763	2.143	508.291	2.748	2.323	508.155	2.735	353.15
82	1.773	510.405	2.783	1.952	510.272	2.768	2.131	510.139	2.754	2.310	510.006	2.741	355.15
84	1.763	512.255	2.789	1.941	512.124	2.773	2.118	511.993	2.759	2.296	511.862	2.746	357.15
86	1.753	514.111	2.794	1.930	513.982	2.778	2.106	513.853	2.764	2.283	513.724	2.751	359.15
88	1.743	515.974	2.799	1.919	515.847	2.783	2.094	515.720	2.769	2.270	515.592	2.756	361.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	1.4 bar			1.5 bar			1.6 bar			1.7 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-42	3.981	402.869	2.359	4.281	402.336	2.347	4.584	401.800	2.334				231.15
-40	3.940	404.543	2.367	4.236	404.027	2.354	4.535	403.506	2.342	4.837	402.983	2.330	233.15
-38	3.900	406.216	2.374	4.193	405.714	2.361	4.488	405.210	2.349	4.785	404.702	2.338	235.15
-36	3.860	407.886	2.381	4.150	407.399	2.368	4.442	406.910	2.356	4.735	406.417	2.345	237.15
-34	3.822	409.554	2.388	4.108	409.082	2.375	4.397	408.607	2.363	4.687	408.129	2.352	239.15
-32	3.785	411.222	2.395	4.068	410.763	2.382	4.353	410.301	2.371	4.639	409.837	2.359	241.15
-30	3.749	412.888	2.402	4.028	412.442	2.389	4.310	411.994	2.377	4.593	411.543	2.366	243.15
-28	3.713	414.553	2.408	3.990	414.120	2.396	4.268	413.685	2.384	4.548	413.247	2.373	245.15
-26	3.678	416.218	2.415	3.952	415.797	2.403	4.227	415.374	2.391	4.504	414.948	2.380	247.15
-24	3.644	417.883	2.422	3.915	417.473	2.410	4.187	417.062	2.398	4.461	416.648	2.387	249.15
-22	3.611	419.548	2.429	3.879	419.149	2.416	4.148	418.749	2.405	4.419	418.347	2.394	251.15
-20	3.578	421.213	2.435	3.844	420.825	2.423	4.110	420.436	2.412	4.378	420.045	2.401	253.15
-18	3.547	422.878	2.442	3.809	422.501	2.430	4.073	422.122	2.418	4.338	421.741	2.407	255.15
-16	3.515	424.544	2.448	3.775	424.177	2.436	4.037	423.808	2.425	4.299	423.438	2.414	257.15
-14	3.485	426.211	2.455	3.742	425.853	2.443	4.001	425.494	2.431	4.261	425.134	2.421	259.15
-12	3.455	427.879	2.461	3.710	427.531	2.449	3.966	427.181	2.438	4.223	426.829	2.427	261.15
-10	3.426	429.548	2.467	3.678	429.209	2.455	3.932	428.868	2.444	4.186	428.526	2.434	263.15
-8	3.397	431.219	2.474	3.647	430.888	2.462	3.898	430.556	2.451	4.150	430.222	2.440	265.15
-6	3.369	432.891	2.480	3.616	432.568	2.468	3.865	432.244	2.457	4.115	431.919	2.446	267.15
-4	3.341	434.565	2.486	3.586	434.250	2.474	3.833	433.934	2.463	4.080	433.617	2.453	269.15
-2	3.314	436.241	2.493	3.557	435.934	2.481	3.801	435.626	2.469	4.047	435.317	2.459	271.15
0	3.287	437.919	2.499	3.528	437.619	2.487	3.770	437.318	2.476	4.013	437.017	2.465	273.15
2	3.261	439.599	2.505	3.500	439.306	2.493	3.740	439.013	2.482	3.981	438.719	2.471	275.15
4	3.235	441.281	2.511	3.472	440.996	2.499	3.710	440.709	2.488	3.949	440.422	2.478	277.15
6	3.210	442.966	2.517	3.445	442.687	2.505	3.681	442.408	2.494	3.917	442.127	2.484	279.15
8	3.185	444.654	2.523	3.418	444.381	2.511	3.652	444.108	2.500	3.886	443.834	2.490	281.15
10	3.161	446.344	2.529	3.392	446.078	2.517	3.623	445.811	2.506	3.856	445.543	2.496	283.15
12	3.137	448.037	2.535	3.366	447.777	2.523	3.596	447.516	2.512	3.826	447.255	2.502	285.15
14	3.113	449.733	2.541	3.340	449.479	2.529	3.568	449.224	2.518	3.797	448.968	2.508	287.15
16	3.090	451.432	2.547	3.315	451.184	2.535	3.541	450.934	2.524	3.768	450.685	2.514	289.15
18	3.067	453.134	2.553	3.291	452.891	2.541	3.515	452.648	2.530	3.740	452.404	2.520	291.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	1.4 bar			1.5 bar			1.6 bar			1.7 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
20	3.045	454.840	2.558	3.266	454.602	2.547	3.489	454.364	2.536	3.712	454.125	2.526	293.15
22	3.022	456.549	2.564	3.243	456.317	2.553	3.463	456.084	2.542	3.685	455.850	2.531	295.15
24	3.001	458.262	2.570	3.219	458.034	2.558	3.438	457.806	2.548	3.658	457.578	2.537	297.15
26	2.979	459.978	2.576	3.196	459.756	2.564	3.413	459.532	2.553	3.631	459.309	2.543	299.15
28	2.958	461.699	2.582	3.173	461.480	2.570	3.389	461.262	2.559	3.605	461.043	2.549	301.15
30	2.937	463.423	2.587	3.151	463.209	2.576	3.365	462.995	2.565	3.580	462.780	2.555	303.15
32	2.917	465.150	2.593	3.129	464.941	2.581	3.341	464.731	2.571	3.554	464.521	2.560	305.15
34	2.897	466.882	2.599	3.107	466.677	2.587	3.318	466.472	2.576	3.530	466.266	2.566	307.15
36	2.877	468.618	2.604	3.086	468.418	2.593	3.295	468.216	2.582	3.505	468.015	2.572	309.15
38	2.857	470.359	2.610	3.065	470.162	2.598	3.273	469.965	2.588	3.481	469.767	2.577	311.15
40	2.838	472.103	2.615	3.044	471.910	2.604	3.251	471.717	2.593	3.457	471.523	2.583	313.15
42	2.819	473.852	2.621	3.024	473.663	2.610	3.229	473.473	2.599	3.434	473.284	2.589	315.15
44	2.801	475.606	2.627	3.004	475.420	2.615	3.207	475.234	2.604	3.411	475.048	2.594	317.15
46	2.782	477.364	2.632	2.984	477.182	2.621	3.186	476.999	2.610	3.388	476.817	2.600	319.15
48	2.764	479.126	2.638	2.964	478.948	2.626	3.165	478.769	2.615	3.366	478.590	2.605	321.15
50	2.746	480.894	2.643	2.945	480.718	2.632	3.144	480.543	2.621	3.344	480.367	2.611	323.15
52	2.728	482.666	2.649	2.926	482.494	2.637	3.124	482.321	2.626	3.322	482.149	2.616	325.15
54	2.711	484.443	2.654	2.907	484.274	2.643	3.104	484.105	2.632	3.301	483.935	2.622	327.15
56	2.694	486.225	2.659	2.889	486.059	2.648	3.084	485.893	2.637	3.279	485.726	2.627	329.15
58	2.677	488.012	2.665	2.870	487.849	2.653	3.064	487.686	2.643	3.259	487.522	2.633	331.15
60	2.660	489.804	2.670	2.852	489.644	2.659	3.045	489.484	2.648	3.238	489.323	2.638	333.15
62	2.643	491.601	2.676	2.834	491.444	2.664	3.026	491.286	2.654	3.218	491.129	2.644	335.15
64	2.627	493.404	2.681	2.817	493.249	2.670	3.007	493.094	2.659	3.198	492.939	2.649	337.15
66	2.611	495.212	2.686	2.800	495.060	2.675	2.989	494.907	2.664	3.178	494.755	2.654	339.15
68	2.595	497.025	2.692	2.782	496.875	2.680	2.970	496.726	2.670	3.158	496.576	2.660	341.15
70	2.579	498.843	2.697	2.766	498.696	2.686	2.952	498.549	2.675	3.139	498.402	2.665	343.15
72	2.564	500.667	2.702	2.749	500.523	2.691	2.934	500.378	2.680	3.120	500.233	2.670	345.15
74	2.548	502.497	2.708	2.732	502.355	2.696	2.917	502.212	2.686	3.101	502.070	2.676	347.15
76	2.533	504.332	2.713	2.716	504.192	2.701	2.899	504.052	2.691	3.083	503.912	2.681	349.15
78	2.518	506.173	2.718	2.700	506.036	2.707	2.882	505.898	2.696	3.064	505.760	2.686	351.15
80	2.504	508.020	2.723	2.684	507.884	2.712	2.865	507.749	2.701	3.046	507.613	2.691	353.15
82	2.489	509.872	2.729	2.669	509.739	2.717	2.848	509.605	2.707	3.028	509.472	2.697	355.15
84	2.475	511.731	2.734	2.653	511.599	2.722	2.832	511.468	2.712	3.011	511.336	2.702	357.15
86	2.460	513.595	2.739	2.638	513.466	2.728	2.816	513.336	2.717	2.993	513.206	2.707	359.15
88	2.446	515.465	2.744	2.623	515.338	2.733	2.799	515.210	2.722	2.976	515.083	2.712	361.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	1.8 bar			1.9 bar			2.0 bar			2.1 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-36	5.031	405.921	2.334	5.329	405.422	2.324	5.630	404.920	2.314	5.932	404.415	2.305	237.15
-34	4.979	407.648	2.342	5.273	407.164	2.331	5.570	406.677	2.322	5.868	406.187	2.312	239.15
-32	4.928	409.371	2.349	5.219	408.901	2.339	5.511	408.429	2.329	5.806	407.954	2.320	241.15
-30	4.878	411.090	2.356	5.165	410.635	2.346	5.454	410.176	2.336	5.745	409.716	2.327	243.15
-28	4.830	412.807	2.363	5.114	412.364	2.353	5.399	411.920	2.343	5.686	411.472	2.334	245.15
-26	4.783	414.521	2.370	5.063	414.091	2.360	5.345	413.659	2.350	5.629	413.225	2.341	247.15
-24	4.737	416.233	2.377	5.014	415.815	2.367	5.292	415.396	2.357	5.573	414.974	2.348	249.15
-22	4.692	417.943	2.384	4.966	417.537	2.374	5.241	417.129	2.364	5.518	416.720	2.355	251.15
-20	4.648	419.652	2.390	4.919	419.257	2.381	5.191	418.861	2.371	5.465	418.462	2.362	253.15
-18	4.605	421.359	2.397	4.873	420.975	2.387	5.142	420.590	2.378	5.413	420.202	2.369	255.15
-16	4.563	423.066	2.404	4.828	422.692	2.394	5.094	422.317	2.385	5.362	421.940	2.376	257.15
-14	4.522	424.771	2.410	4.784	424.408	2.401	5.048	424.043	2.391	5.312	423.676	2.383	259.15
-12	4.482	426.477	2.417	4.741	426.123	2.407	5.002	425.768	2.398	5.264	425.411	2.389	261.15
-10	4.442	428.182	2.423	4.699	427.837	2.414	4.957	427.491	2.405	5.217	427.144	2.396	263.15
-8	4.404	429.888	2.430	4.658	429.552	2.420	4.914	429.215	2.411	5.170	428.876	2.402	265.15
-6	4.366	431.593	2.436	4.618	431.266	2.427	4.871	430.938	2.418	5.125	430.608	2.409	267.15
-4	4.329	433.300	2.443	4.579	432.980	2.433	4.829	432.660	2.424	5.081	432.339	2.415	269.15
-2	4.293	435.007	2.449	4.540	434.695	2.439	4.788	434.383	2.430	5.037	434.070	2.422	271.15
0	4.257	436.714	2.455	4.502	436.411	2.446	4.748	436.107	2.437	4.995	435.802	2.428	273.15
2	4.222	438.424	2.461	4.465	438.128	2.452	4.708	437.831	2.443	4.953	437.533	2.434	275.15
4	4.188	440.134	2.468	4.429	439.845	2.458	4.670	439.556	2.449	4.912	439.265	2.441	277.15
6	4.155	441.846	2.474	4.393	441.564	2.464	4.632	441.281	2.455	4.872	440.998	2.447	279.15
8	4.122	443.560	2.480	4.358	443.284	2.471	4.595	443.008	2.462	4.832	442.732	2.453	281.15
10	4.089	445.275	2.486	4.323	445.006	2.477	4.558	444.737	2.468	4.794	444.467	2.459	283.15
12	4.058	446.993	2.492	4.290	446.730	2.483	4.522	446.467	2.474	4.756	446.203	2.465	285.15
14	4.026	448.712	2.498	4.256	448.456	2.489	4.487	448.199	2.480	4.719	447.941	2.471	287.15
16	3.996	450.434	2.504	4.224	450.184	2.495	4.453	449.932	2.486	4.682	449.680	2.477	289.15
18	3.966	452.159	2.510	4.192	451.914	2.501	4.419	451.668	2.492	4.646	451.422	2.483	291.15
20	3.936	453.886	2.516	4.160	453.646	2.507	4.385	453.406	2.498	4.611	453.165	2.489	293.15
22	3.907	455.616	2.522	4.129	455.381	2.513	4.353	455.146	2.504	4.576	454.911	2.495	295.15
24	3.878	457.349	2.528	4.099	457.119	2.518	4.320	456.889	2.510	4.542	456.659	2.501	297.15
26	3.850	459.084	2.533	4.069	458.860	2.524	4.289	458.635	2.515	4.509	458.409	2.507	299.15
28	3.822	460.823	2.539	4.040	460.604	2.530	4.257	460.383	2.521	4.476	460.163	2.513	301.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	1.8 bar			1.9 bar			2.0 bar			2.1 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
30	3.795	462.566	2.545	4.011	462.350	2.536	4.227	462.135	2.527	4.443	461.919	2.519	303.15
32	3.768	464.311	2.551	3.982	464.100	2.542	4.197	463.889	2.533	4.412	463.678	2.525	305.15
34	3.742	466.060	2.556	3.954	465.854	2.547	4.167	465.647	2.539	4.380	465.440	2.530	307.15
36	3.716	467.813	2.562	3.926	467.610	2.553	4.138	467.408	2.544	4.349	467.205	2.536	309.15
38	3.690	469.569	2.568	3.899	469.371	2.559	4.109	469.172	2.550	4.319	468.973	2.542	311.15
40	3.665	471.329	2.573	3.872	471.135	2.564	4.080	470.940	2.556	4.289	470.745	2.547	313.15
42	3.640	473.093	2.579	3.846	472.903	2.570	4.053	472.712	2.561	4.260	472.521	2.553	315.15
44	3.615	474.861	2.585	3.820	474.675	2.576	4.025	474.488	2.567	4.231	474.300	2.559	317.15
46	3.591	476.634	2.590	3.794	476.450	2.581	3.998	476.267	2.573	4.202	476.083	2.564	319.15
48	3.567	478.410	2.596	3.769	478.230	2.587	3.971	478.050	2.578	4.174	477.870	2.570	321.15
50	3.544	480.191	2.601	3.744	480.014	2.592	3.945	479.838	2.584	4.146	479.661	2.575	323.15
52	3.521	481.976	2.607	3.720	481.803	2.598	3.919	481.630	2.589	4.119	481.456	2.581	325.15
54	3.498	483.766	2.612	3.695	483.596	2.603	3.893	483.426	2.595	4.092	483.255	2.587	327.15
56	3.475	485.560	2.618	3.672	485.393	2.609	3.868	485.226	2.600	4.065	485.059	2.592	329.15
58	3.453	487.359	2.623	3.648	487.195	2.614	3.843	487.031	2.606	4.039	486.867	2.597	331.15
60	3.431	489.162	2.629	3.625	489.001	2.620	3.819	488.840	2.611	4.013	488.679	2.603	333.15
62	3.410	490.971	2.634	3.602	490.813	2.625	3.795	490.654	2.617	3.988	490.496	2.608	335.15
64	3.388	492.784	2.639	3.579	492.629	2.630	3.771	492.473	2.622	3.963	492.318	2.614	337.15
66	3.367	494.603	2.645	3.557	494.450	2.636	3.747	494.297	2.627	3.938	494.144	2.619	339.15
68	3.347	496.426	2.650	3.535	496.276	2.641	3.724	496.126	2.633	3.913	495.975	2.625	341.15
70	3.326	498.254	2.656	3.514	498.107	2.647	3.701	497.959	2.638	3.889	497.811	2.630	343.15
72	3.306	500.088	2.661	3.492	499.943	2.652	3.679	499.798	2.643	3.865	499.652	2.635	345.15
74	3.286	501.927	2.666	3.471	501.785	2.657	3.656	501.642	2.649	3.842	501.499	2.641	347.15
76	3.266	503.772	2.671	3.450	503.631	2.663	3.634	503.491	2.654	3.819	503.350	2.646	349.15
78	3.247	505.622	2.677	3.430	505.483	2.668	3.613	505.345	2.659	3.796	505.207	2.651	351.15
80	3.228	507.477	2.682	3.409	507.341	2.673	3.591	507.205	2.665	3.773	507.069	2.657	353.15
82	3.209	509.338	2.687	3.389	509.204	2.678	3.570	509.070	2.670	3.751	508.936	2.662	355.15
84	3.190	511.205	2.693	3.369	511.073	2.684	3.549	510.941	2.675	3.729	510.809	2.667	357.15
86	3.171	513.077	2.698	3.350	512.947	2.689	3.528	512.817	2.680	3.707	512.687	2.672	359.15
88	3.153	514.955	2.703	3.330	514.827	2.694	3.508	514.699	2.686	3.686	514.571	2.678	361.15
90	3.135	516.839	2.708	3.311	516.713	2.699	3.488	516.587	2.691	3.664	516.461	2.683	363.15
92	3.117	518.728	2.713	3.292	518.604	2.704	3.468	518.480	2.696	3.643	518.356	2.688	365.15
94	3.100	520.624	2.719	3.274	520.502	2.710	3.448	520.380	2.701	3.623	520.257	2.693	367.15
96	3.082	522.526	2.724	3.255	522.405	2.715	3.429	522.285	2.706	3.602	522.164	2.698	369.15
98	3.065	524.434	2.729	3.237	524.315	2.720	3.409	524.196	2.712	3.582	524.077	2.704	371.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	2.2 bar			2.3 bar			2.4 bar			2.5 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-32	6.102	407.476	2.311	6.401	406.995	2.302	6.702	406.512	2.294	7.005	406.025	2.286	241.15
-30	6.038	409.252	2.318	6.332	408.786	2.309	6.629	408.317	2.301	6.928	407.846	2.293	243.15
-28	5.975	411.023	2.325	6.266	410.571	2.317	6.559	410.116	2.309	6.853	409.659	2.301	245.15
-26	5.914	412.789	2.332	6.201	412.350	2.324	6.490	411.909	2.316	6.781	411.465	2.308	247.15
-24	5.855	414.550	2.340	6.138	414.124	2.331	6.423	413.696	2.323	6.710	413.266	2.315	249.15
-22	5.797	416.308	2.347	6.077	415.894	2.338	6.359	415.479	2.330	6.642	415.061	2.322	251.15
-20	5.740	418.062	2.354	6.017	417.660	2.345	6.295	417.256	2.337	6.575	416.851	2.329	253.15
-18	5.685	419.814	2.360	5.959	419.423	2.352	6.234	419.030	2.344	6.510	418.636	2.336	255.15
-16	5.631	421.562	2.367	5.902	421.182	2.359	6.174	420.801	2.351	6.447	420.418	2.343	257.15
-14	5.579	423.308	2.374	5.846	422.939	2.366	6.115	422.568	2.358	6.385	422.195	2.350	259.15
-12	5.527	425.053	2.381	5.792	424.693	2.373	6.058	424.332	2.365	6.325	423.970	2.357	261.15
-10	5.477	426.796	2.387	5.739	426.446	2.379	6.002	426.094	2.371	6.266	425.742	2.364	263.15
-8	5.428	428.537	2.394	5.687	428.196	2.386	5.947	427.854	2.378	6.208	427.511	2.371	265.15
-6	5.380	430.277	2.400	5.636	429.946	2.392	5.894	429.613	2.385	6.152	429.278	2.377	267.15
-4	5.333	432.017	2.407	5.587	431.694	2.399	5.842	431.369	2.391	6.097	431.044	2.384	269.15
-2	5.287	433.756	2.413	5.538	433.441	2.405	5.790	433.125	2.398	6.044	432.808	2.390	271.15
0	5.242	435.495	2.420	5.491	435.188	2.412	5.740	434.880	2.404	5.991	434.571	2.397	273.15
2	5.198	437.234	2.426	5.444	436.935	2.418	5.692	436.634	2.411	5.940	436.333	2.403	275.15
4	5.155	438.974	2.432	5.399	438.682	2.425	5.644	438.388	2.417	5.889	438.095	2.410	277.15
6	5.113	440.714	2.439	5.354	440.428	2.431	5.597	440.143	2.423	5.840	439.856	2.416	279.15
8	5.071	442.454	2.445	5.310	442.176	2.437	5.550	441.897	2.430	5.791	441.617	2.422	281.15
10	5.030	444.196	2.451	5.267	443.924	2.443	5.505	443.652	2.436	5.744	443.378	2.429	283.15
12	4.990	445.938	2.457	5.225	445.673	2.449	5.461	445.407	2.442	5.698	445.140	2.435	285.15
14	4.951	447.682	2.463	5.184	447.423	2.456	5.418	447.163	2.448	5.652	446.903	2.441	287.15
16	4.912	449.428	2.469	5.143	449.174	2.462	5.375	448.921	2.454	5.607	448.666	2.447	289.15
18	4.875	451.175	2.475	5.103	450.927	2.468	5.333	450.679	2.460	5.563	450.431	2.453	291.15
20	4.837	452.924	2.481	5.064	452.682	2.474	5.292	452.439	2.466	5.520	452.196	2.459	293.15
22	4.801	454.675	2.487	5.026	454.438	2.480	5.252	454.201	2.472	5.478	453.963	2.465	295.15
24	4.765	456.428	2.493	4.988	456.197	2.486	5.212	455.965	2.478	5.436	455.732	2.471	297.15
26	4.730	458.183	2.499	4.951	457.957	2.491	5.173	457.730	2.484	5.395	457.503	2.477	299.15
28	4.695	459.942	2.505	4.914	459.720	2.497	5.135	459.498	2.490	5.355	459.276	2.483	301.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	2.2 bar			2.3 bar			2.4 bar			2.5 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
30	4.661	461.702	2.511	4.879	461.485	2.503	5.097	461.268	2.496	5.316	461.051	2.489	303.15
32	4.627	463.466	2.517	4.843	463.253	2.509	5.060	463.041	2.502	5.277	462.828	2.495	305.15
34	4.594	465.232	2.522	4.809	465.024	2.515	5.023	464.816	2.507	5.239	464.607	2.500	307.15
36	4.562	467.002	2.528	4.774	466.798	2.521	4.988	466.594	2.513	5.201	466.390	2.506	309.15
38	4.530	468.774	2.534	4.741	468.575	2.526	4.952	468.375	2.519	5.164	468.175	2.512	311.15
40	4.498	470.550	2.540	4.708	470.355	2.532	4.918	470.159	2.525	5.128	469.963	2.518	313.15
42	4.467	472.330	2.545	4.675	472.138	2.538	4.883	471.946	2.530	5.092	471.754	2.523	315.15
44	4.437	474.113	2.551	4.643	473.925	2.543	4.850	473.737	2.536	5.057	473.548	2.529	317.15
46	4.407	475.899	2.556	4.611	475.715	2.549	4.817	475.530	2.542	5.022	475.346	2.535	319.15
48	4.377	477.690	2.562	4.580	477.509	2.555	4.784	477.328	2.547	4.988	477.147	2.540	321.15
50	4.348	479.484	2.568	4.550	479.307	2.560	4.752	479.129	2.553	4.955	478.951	2.546	323.15
52	4.319	481.282	2.573	4.519	481.108	2.566	4.720	480.934	2.558	4.922	480.759	2.552	325.15
54	4.291	483.085	2.579	4.490	482.914	2.571	4.689	482.743	2.564	4.889	482.572	2.557	327.15
56	4.263	484.891	2.584	4.460	484.724	2.577	4.658	484.556	2.570	4.857	484.388	2.563	329.15
58	4.235	486.702	2.590	4.431	486.537	2.582	4.628	486.373	2.575	4.825	486.208	2.568	331.15
60	4.208	488.517	2.595	4.403	488.356	2.588	4.598	488.194	2.581	4.794	488.032	2.574	333.15
62	4.181	490.337	2.601	4.375	490.178	2.593	4.569	490.019	2.586	4.763	489.860	2.579	335.15
64	4.155	492.162	2.606	4.347	492.006	2.599	4.540	491.849	2.591	4.733	491.693	2.585	337.15
66	4.129	493.991	2.611	4.320	493.837	2.604	4.511	493.684	2.597	4.703	493.530	2.590	339.15
68	4.103	495.824	2.617	4.293	495.674	2.609	4.483	495.523	2.602	4.673	495.372	2.595	341.15
70	4.078	497.663	2.622	4.266	497.515	2.615	4.455	497.367	2.608	4.644	497.218	2.601	343.15
72	4.052	499.507	2.628	4.240	499.361	2.620	4.427	499.215	2.613	4.615	499.069	2.606	345.15
74	4.028	501.355	2.633	4.214	501.212	2.625	4.400	501.069	2.618	4.587	500.925	2.612	347.15
76	4.003	503.209	2.638	4.188	503.068	2.631	4.374	502.927	2.624	4.559	502.786	2.617	349.15
78	3.979	505.068	2.644	4.163	504.929	2.636	4.347	504.790	2.629	4.531	504.651	2.622	351.15
80	3.956	506.932	2.649	4.138	506.796	2.641	4.321	506.659	2.634	4.504	506.522	2.628	353.15
82	3.932	508.802	2.654	4.114	508.667	2.647	4.295	508.533	2.640	4.477	508.398	2.633	355.15
84	3.909	510.677	2.659	4.089	510.544	2.652	4.270	510.412	2.645	4.451	510.279	2.638	357.15
86	3.886	512.557	2.665	4.065	512.427	2.657	4.245	512.296	2.650	4.424	512.166	2.643	359.15
88	3.863	514.443	2.670	4.042	514.315	2.662	4.220	514.186	2.655	4.399	514.058	2.649	361.15
90	3.841	516.334	2.675	4.018	516.208	2.668	4.195	516.082	2.661	4.373	515.955	2.654	363.15
92	3.819	518.232	2.680	3.995	518.107	2.673	4.171	517.983	2.666	4.348	517.858	2.659	365.15
94	3.797	520.135	2.685	3.972	520.012	2.678	4.147	519.889	2.671	4.323	519.766	2.664	367.15
96	3.776	522.043	2.691	3.950	521.923	2.683	4.124	521.802	2.676	4.298	521.681	2.670	369.15
98	3.755	523.958	2.696	3.927	523.839	2.689	4.100	523.720	2.681	4.274	523.601	2.675	371.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	2.6 bar			2.7 bar			2.8 bar			2.9 bar			Temp (K)
	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-28	7.150	409.199	2.293	7.449	408.736	2.285	7.749	408.271	2.278	8.052	407.803	2.271	245.15
-26	7.074	411.019	2.300	7.368	410.571	2.293	7.665	410.120	2.286	7.963	409.666	2.279	247.15
-24	6.999	412.833	2.308	7.290	412.398	2.300	7.582	411.961	2.293	7.877	411.521	2.286	249.15
-22	6.927	414.641	2.315	7.214	414.219	2.308	7.502	413.795	2.300	7.793	413.368	2.294	251.15
-20	6.857	416.443	2.322	7.140	416.033	2.315	7.425	415.621	2.308	7.711	415.208	2.301	253.15
-18	6.788	418.240	2.329	7.068	417.842	2.322	7.349	417.442	2.315	7.632	417.041	2.308	255.15
-16	6.722	420.033	2.336	6.998	419.646	2.329	7.276	419.258	2.322	7.555	418.868	2.315	257.15
-14	6.657	421.821	2.343	6.930	421.445	2.336	7.204	421.068	2.329	7.480	420.689	2.322	259.15
-12	6.593	423.606	2.350	6.863	423.241	2.343	7.134	422.874	2.336	7.406	422.505	2.329	261.15
-10	6.531	425.388	2.357	6.798	425.032	2.350	7.066	424.675	2.343	7.335	424.317	2.336	263.15
-8	6.471	427.167	2.363	6.735	426.821	2.356	6.999	426.474	2.350	7.266	426.125	2.343	265.15
-6	6.412	428.943	2.370	6.673	428.606	2.363	6.935	428.268	2.356	7.198	427.929	2.350	267.15
-4	6.354	430.717	2.377	6.612	430.389	2.370	6.871	430.060	2.363	7.131	429.730	2.356	269.15
-2	6.298	432.490	2.383	6.553	432.170	2.376	6.809	431.850	2.370	7.067	431.529	2.363	271.15
0	6.243	434.261	2.390	6.495	433.950	2.383	6.749	433.637	2.376	7.003	433.324	2.370	273.15
2	6.189	436.031	2.396	6.439	435.727	2.389	6.690	435.423	2.383	6.942	435.118	2.376	275.15
4	6.136	437.800	2.403	6.383	437.504	2.396	6.632	437.207	2.389	6.881	436.910	2.383	277.15
6	6.084	439.568	2.409	6.329	439.280	2.402	6.575	438.991	2.396	6.822	438.701	2.389	279.15
8	6.033	441.336	2.415	6.276	441.055	2.408	6.520	440.773	2.402	6.764	440.490	2.396	281.15
10	5.984	443.105	2.422	6.224	442.830	2.415	6.465	442.555	2.408	6.707	442.279	2.402	283.15
12	5.935	444.873	2.428	6.173	444.605	2.421	6.412	444.336	2.414	6.652	444.067	2.408	285.15
14	5.887	446.642	2.434	6.123	446.380	2.427	6.360	446.118	2.421	6.597	445.855	2.414	287.15
16	5.840	448.411	2.440	6.074	448.155	2.433	6.309	447.899	2.427	6.544	447.642	2.421	289.15
18	5.794	450.181	2.446	6.026	449.932	2.439	6.258	449.681	2.433	6.491	449.430	2.427	291.15
20	5.749	451.953	2.452	5.979	451.709	2.446	6.209	451.464	2.439	6.440	451.219	2.433	293.15
22	5.705	453.725	2.458	5.932	453.487	2.452	6.161	453.248	2.445	6.390	453.008	2.439	295.15
24	5.661	455.499	2.464	5.887	455.266	2.458	6.113	455.032	2.451	6.340	454.798	2.445	297.15
26	5.619	457.275	2.470	5.842	457.047	2.464	6.067	456.818	2.457	6.292	456.589	2.451	299.15
28	5.577	459.053	2.476	5.798	458.830	2.470	6.021	458.606	2.463	6.244	458.382	2.457	301.15
30	5.535	460.832	2.482	5.755	460.614	2.475	5.976	460.395	2.469	6.197	460.176	2.463	303.15
32	5.495	462.614	2.488	5.713	462.400	2.481	5.932	462.186	2.475	6.151	461.971	2.469	305.15
34	5.455	464.398	2.494	5.671	464.189	2.487	5.888	463.979	2.481	6.106	463.769	2.475	307.15
36	5.416	466.185	2.499	5.630	465.980	2.493	5.845	465.774	2.487	6.061	465.569	2.481	309.15
38	5.377	467.974	2.505	5.590	467.773	2.499	5.803	467.572	2.492	6.017	467.371	2.486	311.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	2.6 bar			2.7 bar			2.8 bar			2.9 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
40	5.339	469.766	2.511	5.550	469.569	2.505	5.762	469.372	2.498	5.974	469.175	2.492	313.15
42	5.302	471.561	2.517	5.511	471.368	2.510	5.721	471.175	2.504	5.932	470.982	2.498	315.15
44	5.265	473.359	2.522	5.473	473.170	2.516	5.681	472.981	2.510	5.891	472.791	2.504	317.15
46	5.229	475.161	2.528	5.435	474.975	2.522	5.642	474.790	2.515	5.850	474.604	2.509	319.15
48	5.193	476.965	2.534	5.398	476.783	2.527	5.603	476.601	2.521	5.809	476.419	2.515	321.15
50	5.158	478.773	2.539	5.361	478.595	2.533	5.565	478.416	2.527	5.770	478.237	2.521	323.15
52	5.123	480.585	2.545	5.325	480.410	2.538	5.528	480.235	2.532	5.730	480.059	2.526	325.15
54	5.089	482.400	2.550	5.290	482.228	2.544	5.491	482.057	2.538	5.692	481.884	2.532	327.15
56	5.056	484.219	2.556	5.255	484.051	2.550	5.454	483.882	2.543	5.654	483.713	2.537	329.15
58	5.022	486.042	2.562	5.220	485.877	2.555	5.418	485.711	2.549	5.617	485.545	2.543	331.15
60	4.990	487.869	2.567	5.186	487.707	2.561	5.383	487.544	2.554	5.580	487.381	2.549	333.15
62	4.958	489.701	2.573	5.153	489.541	2.566	5.348	489.381	2.560	5.544	489.221	2.554	335.15
64	4.926	491.536	2.578	5.120	491.379	2.572	5.314	491.223	2.565	5.508	491.065	2.560	337.15
66	4.895	493.376	2.583	5.087	493.222	2.577	5.280	493.068	2.571	5.473	492.913	2.565	339.15
68	4.864	495.220	2.589	5.055	495.069	2.582	5.246	494.918	2.576	5.438	494.766	2.570	341.15
70	4.833	497.069	2.594	5.023	496.921	2.588	5.213	496.772	2.582	5.404	496.622	2.576	343.15
72	4.803	498.923	2.600	4.992	498.777	2.593	5.181	498.630	2.587	5.370	498.483	2.581	345.15
74	4.774	500.781	2.605	4.961	500.637	2.599	5.149	500.493	2.593	5.336	500.349	2.587	347.15
76	4.745	502.644	2.610	4.931	502.503	2.604	5.117	502.361	2.598	5.303	502.219	2.592	349.15
78	4.716	504.512	2.616	4.901	504.373	2.609	5.086	504.234	2.603	5.271	504.094	2.597	351.15
80	4.687	506.385	2.621	4.871	506.248	2.615	5.055	506.111	2.609	5.239	505.974	2.603	353.15
82	4.659	508.263	2.626	4.842	508.129	2.620	5.024	507.994	2.614	5.207	507.859	2.608	355.15
84	4.632	510.147	2.632	4.813	510.014	2.625	4.994	509.881	2.619	5.176	509.748	2.613	357.15
86	4.604	512.035	2.637	4.784	511.905	2.631	4.965	511.774	2.624	5.145	511.643	2.619	359.15
88	4.577	513.929	2.642	4.756	513.800	2.636	4.936	513.672	2.630	5.115	513.543	2.624	361.15
90	4.551	515.828	2.647	4.729	515.702	2.641	4.907	515.575	2.635	5.085	515.448	2.629	363.15
92	4.524	517.733	2.653	4.701	517.608	2.646	4.878	517.483	2.640	5.055	517.358	2.634	365.15
94	4.498	519.644	2.658	4.674	519.521	2.652	4.850	519.398	2.645	5.026	519.274	2.640	367.15
96	4.473	521.560	2.663	4.647	521.438	2.657	4.822	521.317	2.651	4.997	521.196	2.645	369.15
98	4.447	523.481	2.668	4.621	523.362	2.662	4.795	523.242	2.656	4.969	523.123	2.650	371.15
100	4.422	525.409	2.673	4.595	525.291	2.667	4.768	525.173	2.661	4.941	525.055	2.655	373.15
102	4.397	527.342	2.679	4.569	527.226	2.672	4.741	527.110	2.666	4.913	526.994	2.660	375.15
104	4.373	529.281	2.684	4.543	529.167	2.677	4.714	529.052	2.671	4.885	528.938	2.666	377.15
106	4.349	531.226	2.689	4.518	531.114	2.683	4.688	531.001	2.677	4.858	530.888	2.671	379.15
108	4.325	533.178	2.694	4.493	533.066	2.688	4.662	532.955	2.682	4.831	532.844	2.676	381.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	3.0 bar			3.1 bar			3.2 bar			3.3 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-24	8.173	411.079	2.279	8.471	410.634	2.273	8.771	410.187	2.266	9.073	409.738	2.260	249.15
-22	8.085	412.939	2.287	8.379	412.508	2.280	8.675	412.075	2.274	8.972	411.640	2.268	251.15
-20	7.999	414.792	2.294	8.289	414.374	2.288	8.581	413.954	2.281	8.874	413.531	2.275	253.15
-18	7.916	416.637	2.301	8.202	416.232	2.295	8.490	415.824	2.289	8.779	415.414	2.282	255.15
-16	7.835	418.476	2.309	8.118	418.082	2.302	8.402	417.686	2.296	8.687	417.289	2.290	257.15
-14	7.757	420.308	2.316	8.035	419.926	2.309	8.316	419.542	2.303	8.597	419.156	2.297	259.15
-12	7.680	422.135	2.323	7.955	421.764	2.316	8.232	421.391	2.310	8.510	421.016	2.304	261.15
-10	7.606	423.958	2.330	7.878	423.596	2.323	8.151	423.234	2.317	8.425	422.870	2.311	263.15
-8	7.533	425.775	2.337	7.802	425.424	2.330	8.071	425.071	2.324	8.343	424.717	2.318	265.15
-6	7.462	427.589	2.343	7.727	427.247	2.337	7.994	426.904	2.331	8.262	426.560	2.325	267.15
-4	7.393	429.399	2.350	7.655	429.067	2.344	7.919	428.733	2.338	8.184	428.398	2.332	269.15
-2	7.325	431.206	2.357	7.585	430.882	2.351	7.845	430.557	2.345	8.107	430.232	2.339	271.15
0	7.259	433.010	2.363	7.516	432.695	2.357	7.774	432.379	2.351	8.032	432.061	2.346	273.15
2	7.195	434.812	2.370	7.448	434.505	2.364	7.703	434.197	2.358	7.959	433.888	2.352	275.15
4	7.131	436.612	2.376	7.383	436.312	2.370	7.635	436.012	2.365	7.888	435.711	2.359	277.15
6	7.070	438.410	2.383	7.318	438.118	2.377	7.568	437.825	2.371	7.818	437.532	2.365	279.15
8	7.009	440.206	2.389	7.255	439.922	2.383	7.502	439.636	2.378	7.750	439.350	2.372	281.15
10	6.950	442.002	2.396	7.194	441.724	2.390	7.438	441.446	2.384	7.684	441.167	2.378	283.15
12	6.892	443.797	2.402	7.133	443.526	2.396	7.376	443.254	2.390	7.618	442.982	2.385	285.15
14	6.835	445.591	2.408	7.074	445.326	2.402	7.314	445.061	2.397	7.555	444.796	2.391	287.15
16	6.780	447.385	2.415	7.016	447.127	2.409	7.254	446.868	2.403	7.492	446.608	2.397	289.15
18	6.725	449.179	2.421	6.960	448.927	2.415	7.195	448.674	2.409	7.431	448.421	2.404	291.15
20	6.672	450.973	2.427	6.904	450.727	2.421	7.137	450.480	2.415	7.371	450.232	2.410	293.15
22	6.619	452.768	2.433	6.849	452.527	2.427	7.080	452.286	2.421	7.312	452.044	2.416	295.15
24	6.568	454.563	2.439	6.796	454.328	2.433	7.025	454.092	2.428	7.254	453.856	2.422	297.15
26	6.517	456.360	2.445	6.743	456.129	2.439	6.970	455.899	2.434	7.197	455.668	2.428	299.15
28	6.467	458.157	2.451	6.692	457.932	2.445	6.916	457.707	2.440	7.142	457.481	2.434	301.15
30	6.419	459.956	2.457	6.641	459.736	2.451	6.864	459.515	2.446	7.087	459.294	2.440	303.15
32	6.371	461.756	2.463	6.591	461.541	2.457	6.812	461.325	2.452	7.034	461.109	2.446	305.15
34	6.324	463.559	2.469	6.542	463.348	2.463	6.761	463.136	2.457	6.981	462.925	2.452	307.15
36	6.277	465.363	2.475	6.494	465.156	2.469	6.711	464.949	2.463	6.929	464.742	2.458	309.15
38	6.232	467.169	2.480	6.447	466.967	2.475	6.662	466.764	2.469	6.878	466.561	2.464	311.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	3.0 bar			3.1 bar			3.2 bar			3.3 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
40	6.187	468.977	2.486	6.400	468.779	2.481	6.614	468.581	2.475	6.828	468.382	2.470	313.15
42	6.143	470.788	2.492	6.355	470.594	2.486	6.567	470.399	2.481	6.779	470.205	2.475	315.15
44	6.100	472.601	2.498	6.310	472.411	2.492	6.520	472.221	2.487	6.731	472.030	2.481	317.15
46	6.057	474.417	2.503	6.266	474.231	2.498	6.474	474.044	2.492	6.683	473.857	2.487	319.15
48	6.015	476.236	2.509	6.222	476.054	2.504	6.429	475.870	2.498	6.637	475.687	2.493	321.15
50	5.974	478.058	2.515	6.179	477.879	2.509	6.385	477.699	2.504	6.591	477.520	2.498	323.15
52	5.934	479.884	2.520	6.137	479.708	2.515	6.341	479.531	2.509	6.545	479.355	2.504	325.15
54	5.894	481.712	2.526	6.096	481.539	2.520	6.298	481.367	2.515	6.501	481.193	2.510	327.15
56	5.854	483.544	2.532	6.055	483.374	2.526	6.256	483.205	2.521	6.457	483.035	2.515	329.15
58	5.815	485.379	2.537	6.015	485.213	2.532	6.214	485.046	2.526	6.414	484.880	2.521	331.15
60	5.777	487.218	2.543	5.975	487.055	2.537	6.173	486.892	2.532	6.371	486.728	2.526	333.15
62	5.739	489.061	2.548	5.936	488.901	2.543	6.132	488.740	2.537	6.329	488.580	2.532	335.15
64	5.702	490.908	2.554	5.897	490.751	2.548	6.092	490.593	2.543	6.288	490.435	2.537	337.15
66	5.666	492.759	2.559	5.859	492.604	2.554	6.053	492.449	2.548	6.247	492.294	2.543	339.15
68	5.630	494.614	2.565	5.822	494.462	2.559	6.014	494.310	2.554	6.207	494.157	2.548	341.15
70	5.594	496.473	2.570	5.785	496.324	2.565	5.976	496.174	2.559	6.168	496.024	2.554	343.15
72	5.559	498.337	2.576	5.749	498.190	2.570	5.938	498.043	2.565	6.129	497.895	2.559	345.15
74	5.524	500.205	2.581	5.713	500.060	2.575	5.901	499.916	2.570	6.090	499.771	2.565	347.15
76	5.490	502.077	2.586	5.677	501.935	2.581	5.865	501.793	2.575	6.052	501.651	2.570	349.15
78	5.457	503.955	2.592	5.642	503.815	2.586	5.829	503.675	2.581	6.015	503.535	2.576	351.15
80	5.423	505.837	2.597	5.608	505.699	2.591	5.793	505.561	2.586	5.978	505.424	2.581	353.15
82	5.391	507.723	2.602	5.574	507.588	2.597	5.758	507.453	2.591	5.942	507.317	2.586	355.15
84	5.358	509.615	2.608	5.540	509.482	2.602	5.723	509.349	2.597	5.906	509.215	2.592	357.15
86	5.326	511.512	2.613	5.507	511.381	2.607	5.689	511.250	2.602	5.870	511.118	2.597	359.15
88	5.295	513.414	2.618	5.475	513.285	2.613	5.655	513.156	2.607	5.835	513.026	2.602	361.15
90	5.264	515.321	2.623	5.442	515.194	2.618	5.621	515.067	2.613	5.801	514.939	2.607	363.15
92	5.233	517.233	2.629	5.411	517.108	2.623	5.589	516.983	2.618	5.767	516.857	2.613	365.15
94	5.203	519.151	2.634	5.379	519.028	2.628	5.556	518.904	2.623	5.733	518.781	2.618	367.15
96	5.173	521.074	2.639	5.348	520.953	2.634	5.524	520.831	2.628	5.700	520.709	2.623	369.15
98	5.143	523.003	2.644	5.317	522.883	2.639	5.492	522.763	2.634	5.667	522.643	2.628	371.15
100	5.114	524.937	2.650	5.287	524.819	2.644	5.461	524.701	2.639	5.635	524.583	2.634	373.15
102	5.085	526.877	2.655	5.257	526.761	2.649	5.430	526.644	2.644	5.603	526.528	2.639	375.15
104	5.056	528.823	2.660	5.228	528.708	2.655	5.399	528.593	2.649	5.571	528.479	2.644	377.15
106	5.028	530.775	2.665	5.198	530.661	2.660	5.369	530.548	2.654	5.540	530.435	2.649	379.15
108	5.000	532.732	2.670	5.170	532.620	2.665	5.339	532.509	2.660	5.509	532.397	2.654	381.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	3.4 bar			3.5 bar			3.6 bar			3.7 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-22	9.272	411.202	2.261	9.573	410.761	2.255	9.877	410.318	2.250	10.182	409.873	2.244	251.15
-20	9.169	413.107	2.269	9.467	412.680	2.263	9.765	412.251	2.257	10.066	411.820	2.252	253.15
-18	9.070	415.003	2.276	9.363	414.589	2.271	9.658	414.173	2.265	9.954	413.755	2.259	255.15
-16	8.974	416.890	2.284	9.263	416.488	2.278	9.553	416.085	2.272	9.845	415.680	2.267	257.15
-14	8.880	418.768	2.291	9.165	418.379	2.285	9.452	417.988	2.280	9.739	417.595	2.274	259.15
-12	8.790	420.640	2.298	9.071	420.262	2.293	9.353	419.882	2.287	9.637	419.500	2.281	261.15
-10	8.701	422.504	2.305	8.979	422.137	2.300	9.257	421.768	2.294	9.537	421.398	2.289	263.15
-8	8.615	424.362	2.312	8.889	424.005	2.307	9.164	423.647	2.301	9.441	423.287	2.296	265.15
-6	8.531	426.215	2.319	8.802	425.868	2.314	9.073	425.519	2.308	9.346	425.170	2.303	267.15
-4	8.450	428.062	2.326	8.717	427.724	2.321	8.985	427.386	2.315	9.255	427.046	2.310	269.15
-2	8.370	429.904	2.333	8.634	429.576	2.328	8.899	429.247	2.322	9.166	428.916	2.317	271.15
0	8.292	431.743	2.340	8.553	431.423	2.334	8.815	431.103	2.329	9.079	430.781	2.324	273.15
2	8.216	433.578	2.347	8.474	433.266	2.341	8.734	432.954	2.336	8.994	432.641	2.331	275.15
4	8.142	435.409	2.353	8.397	435.106	2.348	8.654	434.802	2.342	8.911	434.497	2.337	277.15
6	8.070	437.237	2.360	8.322	436.942	2.354	8.576	436.646	2.349	8.830	436.349	2.344	279.15
8	7.999	439.063	2.366	8.249	438.775	2.361	8.500	438.487	2.356	8.751	438.197	2.350	281.15
10	7.930	440.887	2.373	8.177	440.606	2.367	8.425	440.325	2.362	8.674	440.042	2.357	283.15
12	7.862	442.709	2.379	8.107	442.435	2.374	8.352	442.160	2.369	8.598	441.885	2.364	285.15
14	7.796	444.529	2.386	8.038	444.262	2.380	8.281	443.994	2.375	8.525	443.726	2.370	287.15
16	7.731	446.348	2.392	7.971	446.088	2.387	8.211	445.826	2.381	8.452	445.564	2.376	289.15
18	7.667	448.167	2.398	7.905	447.912	2.393	8.143	447.657	2.388	8.382	447.401	2.383	291.15
20	7.605	449.984	2.404	7.840	449.736	2.399	8.076	449.486	2.394	8.313	449.237	2.389	293.15
22	7.544	451.802	2.411	7.777	451.559	2.405	8.011	451.315	2.400	8.245	451.071	2.395	295.15
24	7.484	453.619	2.417	7.715	453.381	2.411	7.946	453.144	2.406	8.178	452.905	2.401	297.15
26	7.425	455.436	2.423	7.654	455.204	2.418	7.883	454.972	2.412	8.113	454.739	2.408	299.15
28	7.368	457.254	2.429	7.594	457.027	2.424	7.821	456.800	2.419	8.049	456.572	2.414	301.15
30	7.311	459.073	2.435	7.536	458.851	2.430	7.761	458.628	2.425	7.987	458.406	2.420	303.15
32	7.256	460.892	2.441	7.478	460.675	2.436	7.701	460.458	2.431	7.925	460.240	2.426	305.15
34	7.201	462.713	2.447	7.422	462.500	2.442	7.643	462.287	2.437	7.865	462.074	2.432	307.15
36	7.147	464.534	2.453	7.366	464.326	2.448	7.586	464.118	2.443	7.806	463.909	2.438	309.15
38	7.095	466.358	2.459	7.312	466.154	2.453	7.529	465.950	2.448	7.747	465.746	2.444	311.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	3.4 bar			3.5 bar			3.6 bar			3.7 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
40	7.043	468.183	2.464	7.258	467.983	2.459	7.474	467.784	2.454	7.690	467.584	2.449	313.15
42	6.992	470.010	2.470	7.206	469.814	2.465	7.420	469.619	2.460	7.634	469.423	2.455	315.15
44	6.942	471.839	2.476	7.154	471.647	2.471	7.366	471.455	2.466	7.579	471.263	2.461	317.15
46	6.893	473.670	2.482	7.103	473.482	2.477	7.314	473.294	2.472	7.524	473.106	2.467	319.15
48	6.845	475.503	2.487	7.053	475.319	2.482	7.262	475.135	2.478	7.471	474.951	2.473	321.15
50	6.797	477.340	2.493	7.004	477.159	2.488	7.211	476.979	2.483	7.419	476.798	2.478	323.15
52	6.750	479.178	2.499	6.955	479.002	2.494	7.161	478.824	2.489	7.367	478.647	2.484	325.15
54	6.704	481.020	2.505	6.908	480.847	2.499	7.112	480.673	2.495	7.316	480.499	2.490	327.15
56	6.659	482.865	2.510	6.861	482.695	2.505	7.063	482.524	2.500	7.266	482.353	2.495	329.15
58	6.614	484.713	2.516	6.815	484.546	2.511	7.015	484.378	2.506	7.217	484.211	2.501	331.15
60	6.570	486.564	2.521	6.769	486.400	2.516	6.969	486.236	2.511	7.168	486.071	2.507	333.15
62	6.527	488.419	2.527	6.724	488.258	2.522	6.922	488.096	2.517	7.121	487.935	2.512	335.15
64	6.484	490.277	2.532	6.680	490.119	2.527	6.877	489.960	2.523	7.074	489.802	2.518	337.15
66	6.442	492.139	2.538	6.637	491.983	2.533	6.832	491.828	2.528	7.027	491.672	2.523	339.15
68	6.400	494.005	2.543	6.594	493.852	2.538	6.787	493.699	2.534	6.982	493.546	2.529	341.15
70	6.359	495.874	2.549	6.552	495.724	2.544	6.744	495.574	2.539	6.937	495.424	2.534	343.15
72	6.319	497.748	2.554	6.510	497.601	2.549	6.701	497.453	2.545	6.892	497.305	2.540	345.15
74	6.279	499.626	2.560	6.469	499.481	2.555	6.659	499.336	2.550	6.849	499.190	2.545	347.15
76	6.240	501.508	2.565	6.428	501.365	2.560	6.617	501.223	2.555	6.805	501.080	2.551	349.15
78	6.202	503.395	2.570	6.388	503.254	2.566	6.576	503.114	2.561	6.763	502.973	2.556	351.15
80	6.163	505.286	2.576	6.349	505.148	2.571	6.535	505.010	2.566	6.721	504.871	2.561	353.15
82	6.126	507.181	2.581	6.310	507.046	2.576	6.495	506.910	2.572	6.680	506.774	2.567	355.15
84	6.089	509.082	2.587	6.272	508.948	2.582	6.455	508.814	2.577	6.639	508.680	2.572	357.15
86	6.052	510.987	2.592	6.234	510.855	2.587	6.416	510.724	2.582	6.599	510.592	2.578	359.15
88	6.016	512.897	2.597	6.197	512.767	2.592	6.378	512.638	2.588	6.559	512.508	2.583	361.15
90	5.980	514.812	2.602	6.160	514.684	2.598	6.340	514.557	2.593	6.520	514.429	2.588	363.15
92	5.945	516.732	2.608	6.124	516.606	2.603	6.302	516.481	2.598	6.481	516.355	2.593	365.15
94	5.910	518.657	2.613	6.088	518.533	2.608	6.265	518.410	2.603	6.443	518.286	2.599	367.15
96	5.876	520.588	2.618	6.052	520.466	2.613	6.229	520.344	2.609	6.406	520.222	2.604	369.15
98	5.842	522.523	2.623	6.017	522.403	2.619	6.193	522.283	2.614	6.368	522.163	2.609	371.15
100	5.809	524.465	2.629	5.983	524.346	2.624	6.157	524.228	2.619	6.332	524.109	2.614	373.15
102	5.775	526.411	2.634	5.949	526.295	2.629	6.122	526.178	2.624	6.295	526.061	2.620	375.15
104	5.743	528.364	2.639	5.915	528.248	2.634	6.087	528.133	2.630	6.260	528.018	2.625	377.15
106	5.711	530.321	2.644	5.882	530.208	2.639	6.053	530.095	2.635	6.224	529.981	2.630	379.15
108	5.679	532.285	2.649	5.849	532.173	2.645	6.019	532.061	2.640	6.189	531.949	2.635	381.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	3.8 bar			3.9 bar			4 bar			4.1 bar			Temp (K)
	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-18	10.252	413.335	2.254	10.552	412.913	2.248	10.854	412.488	2.243	11.158	412.061	2.238	255.15
-16	10.139	415.273	2.261	10.434	414.864	2.256	10.732	414.452	2.251	11.031	414.039	2.245	257.15
-14	10.029	417.200	2.269	10.320	416.803	2.263	10.613	416.404	2.258	10.908	416.004	2.253	259.15
-12	9.922	419.117	2.276	10.210	418.732	2.271	10.498	418.346	2.266	10.788	417.957	2.261	261.15
-10	9.819	421.026	2.283	10.102	420.652	2.278	10.387	420.277	2.273	10.673	419.900	2.268	263.15
-8	9.719	422.926	2.291	9.998	422.563	2.285	10.279	422.199	2.280	10.561	421.833	2.275	265.15
-6	9.621	424.819	2.298	9.896	424.466	2.293	10.173	424.113	2.287	10.452	423.757	2.283	267.15
-4	9.526	426.705	2.305	9.798	426.362	2.300	10.071	426.018	2.295	10.346	425.673	2.290	269.15
-2	9.433	428.584	2.312	9.702	428.251	2.307	9.972	427.917	2.302	10.243	427.581	2.297	271.15
0	9.343	430.458	2.319	9.608	430.134	2.314	9.875	429.809	2.309	10.143	429.483	2.304	273.15
2	9.255	432.327	2.325	9.517	432.012	2.320	9.781	431.695	2.315	10.045	431.378	2.311	275.15
4	9.169	434.191	2.332	9.428	433.884	2.327	9.689	433.576	2.322	9.950	433.267	2.317	277.15
6	9.085	436.051	2.339	9.342	435.752	2.334	9.599	435.452	2.329	9.857	435.151	2.324	279.15
8	9.004	437.907	2.345	9.257	437.615	2.341	9.511	437.323	2.336	9.767	437.030	2.331	281.15
10	8.924	439.759	2.352	9.174	439.475	2.347	9.426	439.191	2.342	9.678	438.905	2.338	283.15
12	8.846	441.609	2.359	9.094	441.332	2.354	9.342	441.055	2.349	9.592	440.776	2.344	285.15
14	8.769	443.456	2.365	9.015	443.186	2.360	9.261	442.916	2.355	9.508	442.644	2.351	287.15
16	8.695	445.301	2.371	8.937	445.038	2.367	9.181	444.774	2.362	9.426	444.509	2.357	289.15
18	8.621	447.145	2.378	8.862	446.887	2.373	9.103	446.630	2.368	9.345	446.371	2.364	291.15
20	8.550	448.986	2.384	8.788	448.735	2.379	9.027	448.484	2.375	9.266	448.231	2.370	293.15
22	8.480	450.827	2.390	8.715	450.581	2.386	8.952	450.336	2.381	9.189	450.090	2.376	295.15
24	8.411	452.666	2.397	8.644	452.427	2.392	8.879	452.187	2.387	9.113	451.946	2.383	297.15
26	8.344	454.505	2.403	8.575	454.271	2.398	8.807	454.037	2.393	9.039	453.802	2.389	299.15
28	8.278	456.344	2.409	8.507	456.115	2.404	8.736	455.886	2.399	8.967	455.656	2.395	301.15
30	8.213	458.182	2.415	8.440	457.959	2.410	8.667	457.735	2.406	8.896	457.510	2.401	303.15
32	8.149	460.021	2.421	8.374	459.802	2.416	8.600	459.583	2.412	8.826	459.364	2.407	305.15
34	8.087	461.860	2.427	8.310	461.646	2.422	8.533	461.432	2.418	8.757	461.217	2.413	307.15
36	8.026	463.700	2.433	8.247	463.491	2.428	8.468	463.281	2.424	8.690	463.071	2.419	309.15
38	7.966	465.541	2.439	8.185	465.336	2.434	8.404	465.131	2.430	8.624	464.925	2.425	311.15
40	7.907	467.383	2.445	8.124	467.182	2.440	8.342	466.981	2.436	8.560	466.780	2.431	313.15
42	7.849	469.226	2.451	8.064	469.030	2.446	8.280	468.833	2.441	8.496	468.635	2.437	315.15
44	7.792	471.071	2.456	8.005	470.879	2.452	8.219	470.686	2.447	8.434	470.492	2.443	317.15
46	7.736	472.918	2.462	7.948	472.729	2.458	8.160	472.540	2.453	8.372	472.350	2.449	319.15
48	7.681	474.766	2.468	7.891	474.581	2.463	8.101	474.396	2.459	8.312	474.210	2.455	321.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	3.8 bar			3.9 bar			4 bar			4.1 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
50	7.626	476.617	2.474	7.835	476.435	2.469	8.044	476.254	2.465	8.253	476.072	2.460	323.15
52	7.573	478.469	2.479	7.780	478.292	2.475	7.987	478.113	2.470	8.195	477.935	2.466	325.15
54	7.521	480.325	2.485	7.726	480.150	2.481	7.931	479.975	2.476	8.137	479.801	2.472	327.15
56	7.469	482.182	2.491	7.673	482.011	2.486	7.877	481.840	2.482	8.081	481.668	2.478	329.15
58	7.418	484.043	2.496	7.620	483.875	2.492	7.823	483.707	2.488	8.026	483.538	2.483	331.15
60	7.368	485.907	2.502	7.569	485.742	2.498	7.770	485.577	2.493	7.971	485.411	2.489	333.15
62	7.319	487.773	2.508	7.518	487.611	2.503	7.718	487.449	2.499	7.917	487.287	2.494	335.15
64	7.271	489.643	2.513	7.468	489.484	2.509	7.666	489.325	2.504	7.864	489.165	2.500	337.15
66	7.223	491.516	2.519	7.419	491.360	2.514	7.615	491.204	2.510	7.812	491.047	2.506	339.15
68	7.176	493.393	2.524	7.371	493.239	2.520	7.566	493.086	2.515	7.761	492.932	2.511	341.15
70	7.130	495.273	2.530	7.323	495.122	2.525	7.516	494.971	2.521	7.710	494.820	2.517	343.15
72	7.084	497.157	2.535	7.276	497.009	2.531	7.468	496.861	2.526	7.661	496.712	2.522	345.15
74	7.039	499.045	2.541	7.229	498.899	2.536	7.420	498.753	2.532	7.611	498.607	2.528	347.15
76	6.994	500.937	2.546	7.184	500.793	2.542	7.373	500.650	2.537	7.563	500.507	2.533	349.15
78	6.951	502.833	2.552	7.139	502.692	2.547	7.327	502.551	2.543	7.515	502.410	2.539	351.15
80	6.908	504.733	2.557	7.094	504.594	2.553	7.281	504.456	2.548	7.468	504.317	2.544	353.15
82	6.865	506.637	2.562	7.050	506.501	2.558	7.236	506.365	2.554	7.422	506.228	2.549	355.15
84	6.823	508.546	2.568	7.007	508.412	2.563	7.192	508.278	2.559	7.376	508.144	2.555	357.15
86	6.782	510.460	2.573	6.965	510.328	2.569	7.148	510.196	2.564	7.331	510.064	2.560	359.15
88	6.741	512.378	2.578	6.922	512.248	2.574	7.104	512.118	2.570	7.287	511.988	2.565	361.15
90	6.700	514.301	2.584	6.881	514.173	2.579	7.062	514.045	2.575	7.243	513.917	2.571	363.15
92	6.661	516.229	2.589	6.840	516.103	2.585	7.020	515.977	2.580	7.200	515.850	2.576	365.15
94	6.621	518.162	2.594	6.800	518.037	2.590	6.978	517.913	2.586	7.157	517.789	2.581	367.15
96	6.582	520.099	2.600	6.760	519.977	2.595	6.937	519.855	2.591	7.115	519.732	2.587	369.15
98	6.544	522.042	2.605	6.720	521.922	2.600	6.897	521.801	2.596	7.073	521.681	2.592	371.15
100	6.506	523.990	2.610	6.681	523.872	2.606	6.857	523.753	2.601	7.032	523.634	2.597	373.15
102	6.469	525.944	2.615	6.643	525.827	2.611	6.817	525.710	2.607	6.991	525.593	2.602	375.15
104	6.432	527.903	2.620	6.605	527.788	2.616	6.778	527.672	2.612	6.951	527.557	2.608	377.15
106	6.396	529.867	2.626	6.568	529.753	2.621	6.740	529.640	2.617	6.912	529.526	2.613	379.15
108	6.360	531.837	2.631	6.531	531.725	2.626	6.701	531.613	2.622	6.873	531.500	2.618	381.15
110	6.324	533.813	2.636	6.494	533.702	2.632	6.664	533.591	2.627	6.834	533.481	2.623	383.15
112	6.289	535.794	2.641	6.458	535.685	2.637	6.627	535.576	2.633	6.796	535.467	2.628	385.15
114	6.254	537.781	2.646	6.422	537.674	2.642	6.590	537.566	2.638	6.758	537.458	2.634	387.15
116	6.220	539.774	2.651	6.387	539.668	2.647	6.554	539.562	2.643	6.721	539.455	2.639	389.15
118	6.186	541.773	2.657	6.352	541.668	2.652	6.518	541.563	2.648	6.684	541.459	2.644	391.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	4.2 bar			4.3 bar			4.4 bar			4.5 bar			Temp (K)
	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-16	11.332	413.623	2.240	11.634	413.205	2.235	11.939	412.785	2.230	12.246	412.363	2.226	257.15
-14	11.204	415.601	2.248	11.502	415.196	2.243	11.802	414.790	2.238	12.103	414.381	2.233	259.15
-12	11.080	417.567	2.256	11.374	417.175	2.251	11.669	416.781	2.246	11.966	416.385	2.241	261.15
-10	10.961	419.521	2.263	11.250	419.141	2.258	11.541	418.759	2.253	11.833	418.375	2.249	263.15
-8	10.844	421.466	2.270	11.129	421.097	2.266	11.416	420.726	2.261	11.704	420.354	2.256	265.15
-6	10.732	423.401	2.278	11.013	423.042	2.273	11.295	422.683	2.268	11.579	422.321	2.264	267.15
-4	10.622	425.327	2.285	10.899	424.979	2.280	11.178	424.629	2.275	11.458	424.279	2.271	269.15
-2	10.515	427.245	2.292	10.789	426.907	2.287	11.064	426.567	2.283	11.340	426.226	2.278	271.15
0	10.412	429.155	2.299	10.682	428.827	2.294	10.953	428.497	2.290	11.226	428.166	2.285	273.15
2	10.311	431.059	2.306	10.578	430.740	2.301	10.846	430.419	2.297	11.115	430.097	2.292	275.15
4	10.213	432.957	2.313	10.476	432.646	2.308	10.741	432.334	2.304	11.006	432.021	2.299	277.15
6	10.117	434.849	2.320	10.377	434.546	2.315	10.638	434.243	2.310	10.901	433.938	2.306	279.15
8	10.023	436.736	2.326	10.280	436.441	2.322	10.539	436.146	2.317	10.798	435.849	2.313	281.15
10	9.932	438.619	2.333	10.186	438.332	2.328	10.442	438.043	2.324	10.698	437.755	2.320	283.15
12	9.843	440.497	2.340	10.094	440.217	2.335	10.347	439.937	2.331	10.600	439.655	2.326	285.15
14	9.756	442.372	2.346	10.005	442.099	2.342	10.254	441.825	2.337	10.505	441.551	2.333	287.15
16	9.671	444.244	2.353	9.917	443.977	2.348	10.164	443.711	2.344	10.412	443.443	2.340	289.15
18	9.588	446.112	2.359	9.831	445.853	2.355	10.075	445.592	2.350	10.321	445.331	2.346	291.15
20	9.506	447.979	2.365	9.747	447.725	2.361	9.989	447.471	2.357	10.232	447.216	2.352	293.15
22	9.427	449.843	2.372	9.665	449.595	2.367	9.904	449.347	2.363	10.144	449.099	2.359	295.15
24	9.349	451.705	2.378	9.585	451.463	2.374	9.822	451.221	2.369	10.059	450.978	2.365	297.15
26	9.272	453.566	2.384	9.506	453.330	2.380	9.741	453.093	2.376	9.976	452.856	2.372	299.15
28	9.198	455.426	2.391	9.429	455.195	2.386	9.661	454.964	2.382	9.894	454.732	2.378	301.15
30	9.124	457.285	2.397	9.354	457.060	2.392	9.584	456.834	2.388	9.814	456.607	2.384	303.15
32	9.052	459.144	2.403	9.280	458.923	2.398	9.508	458.702	2.394	9.736	458.481	2.390	305.15
34	8.982	461.002	2.409	9.207	460.786	2.405	9.433	460.570	2.400	9.659	460.354	2.396	307.15
36	8.913	462.860	2.415	9.136	462.649	2.411	9.360	462.438	2.406	9.584	462.226	2.402	309.15
38	8.845	464.719	2.421	9.066	464.512	2.417	9.288	464.305	2.412	9.510	464.098	2.408	311.15
40	8.778	466.578	2.427	8.998	466.376	2.423	9.217	466.173	2.418	9.437	465.970	2.414	313.15
42	8.713	468.438	2.433	8.930	468.240	2.429	9.148	468.042	2.424	9.366	467.843	2.420	315.15
44	8.649	470.299	2.439	8.864	470.105	2.434	9.080	469.911	2.430	9.296	469.716	2.426	317.15
46	8.586	472.161	2.445	8.799	471.971	2.440	9.013	471.781	2.436	9.228	471.590	2.432	319.15
48	8.524	474.024	2.450	8.735	473.838	2.446	8.948	473.652	2.442	9.160	473.465	2.438	321.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	4.2 bar			4.3 bar			4.4 bar			4.5 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
50	8.463	475.889	2.456	8.673	475.707	2.452	8.883	475.524	2.448	9.094	475.341	2.444	323.15
52	8.403	477.756	2.462	8.611	477.578	2.458	8.820	477.398	2.454	9.029	477.219	2.450	325.15
54	8.344	479.625	2.468	8.550	479.450	2.463	8.758	479.274	2.459	8.965	479.098	2.455	327.15
56	8.286	481.496	2.473	8.491	481.324	2.469	8.696	481.152	2.465	8.902	480.979	2.461	329.15
58	8.229	483.370	2.479	8.432	483.201	2.475	8.636	483.032	2.471	8.840	482.863	2.467	331.15
60	8.173	485.246	2.485	8.374	485.080	2.481	8.577	484.914	2.476	8.779	484.748	2.473	333.15
62	8.117	487.124	2.490	8.318	486.962	2.486	8.518	486.799	2.482	8.719	486.636	2.478	335.15
64	8.063	489.006	2.496	8.262	488.846	2.492	8.461	488.686	2.488	8.660	488.526	2.484	337.15
66	8.009	490.890	2.501	8.207	490.734	2.497	8.404	490.577	2.493	8.602	490.419	2.489	339.15
68	7.957	492.778	2.507	8.152	492.624	2.503	8.349	492.470	2.499	8.545	492.315	2.495	341.15
70	7.905	494.669	2.512	8.099	494.518	2.508	8.294	494.366	2.504	8.489	494.214	2.500	343.15
72	7.853	496.563	2.518	8.046	496.415	2.514	8.240	496.266	2.510	8.434	496.117	2.506	345.15
74	7.803	498.461	2.523	7.995	498.315	2.519	8.187	498.169	2.515	8.379	498.022	2.512	347.15
76	7.753	500.363	2.529	7.944	500.219	2.525	8.134	500.075	2.521	8.325	499.931	2.517	349.15
78	7.704	502.268	2.534	7.893	502.127	2.530	8.083	501.986	2.526	8.272	501.844	2.522	351.15
80	7.656	504.178	2.540	7.844	504.039	2.536	8.032	503.900	2.532	8.220	503.760	2.528	353.15
82	7.608	506.091	2.545	7.795	505.955	2.541	7.981	505.818	2.537	8.168	505.681	2.533	355.15
84	7.561	508.009	2.551	7.746	507.875	2.547	7.932	507.740	2.543	8.118	507.605	2.539	357.15
86	7.515	509.931	2.556	7.699	509.799	2.552	7.883	509.666	2.548	8.067	509.533	2.544	359.15
88	7.469	511.858	2.561	7.652	511.727	2.557	7.835	511.597	2.553	8.018	511.466	2.549	361.15
90	7.424	513.789	2.567	7.606	513.660	2.563	7.787	513.532	2.559	7.969	513.403	2.555	363.15
92	7.380	515.724	2.572	7.560	515.598	2.568	7.741	515.471	2.564	7.921	515.345	2.560	365.15
94	7.336	517.665	2.577	7.515	517.540	2.573	7.694	517.415	2.569	7.874	517.291	2.565	367.15
96	7.292	519.610	2.583	7.470	519.487	2.579	7.649	519.364	2.575	7.827	519.242	2.571	369.15
98	7.250	521.560	2.588	7.427	521.439	2.584	7.604	521.318	2.580	7.781	521.197	2.576	371.15
100	7.207	523.515	2.593	7.383	523.396	2.589	7.559	523.277	2.585	7.735	523.158	2.581	373.15
102	7.166	525.475	2.598	7.340	525.358	2.594	7.515	525.241	2.590	7.690	525.123	2.587	375.15
104	7.125	527.441	2.604	7.298	527.325	2.600	7.472	527.210	2.596	7.646	527.094	2.592	377.15
106	7.084	529.412	2.609	7.256	529.298	2.605	7.429	529.184	2.601	7.602	529.069	2.597	379.15
108	7.044	531.388	2.614	7.215	531.276	2.610	7.387	531.163	2.606	7.559	531.051	2.602	381.15
110	7.004	533.370	2.619	7.175	533.259	2.615	7.345	533.148	2.611	7.516	533.037	2.607	383.15
112	6.965	535.357	2.624	7.134	535.248	2.620	7.304	535.138	2.616	7.474	535.029	2.613	385.15
114	6.926	537.350	2.629	7.095	537.242	2.625	7.263	537.134	2.622	7.432	537.026	2.618	387.15
116	6.888	539.349	2.635	7.056	539.242	2.631	7.223	539.136	2.627	7.391	539.029	2.623	389.15
118	6.850	541.353	2.640	7.017	541.248	2.636	7.183	541.143	2.632	7.350	541.038	2.628	391.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	4.6 bar			4.7 bar			4.8 bar			4.9 bar			Temp (K)
	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-14	12.407	413.970	2.229	12.712	413.557	2.224	13.019	413.142	2.219	13.329	412.725	2.215	259.15
-12	12.265	415.987	2.236	12.565	415.587	2.232	12.867	415.185	2.227	13.171	414.781	2.223	261.15
-10	12.127	417.990	2.244	12.423	417.602	2.239	12.720	417.213	2.235	13.019	416.822	2.231	263.15
-8	11.994	419.980	2.252	12.285	419.604	2.247	12.578	419.227	2.243	12.872	418.848	2.238	265.15
-6	11.865	421.959	2.259	12.152	421.594	2.255	12.440	421.228	2.250	12.730	420.861	2.246	267.15
-4	11.739	423.927	2.266	12.022	423.573	2.262	12.306	423.218	2.258	12.592	422.861	2.253	269.15
-2	11.618	425.885	2.274	11.897	425.541	2.269	12.177	425.197	2.265	12.458	424.850	2.261	271.15
0	11.500	427.833	2.281	11.775	427.500	2.276	12.051	427.165	2.272	12.329	426.829	2.268	273.15
2	11.385	429.774	2.288	11.656	429.450	2.283	11.929	429.124	2.279	12.203	428.798	2.275	275.15
4	11.273	431.706	2.295	11.541	431.391	2.291	11.810	431.075	2.286	12.081	430.757	2.282	277.15
6	11.164	433.632	2.302	11.429	433.325	2.297	11.695	433.018	2.293	11.961	432.709	2.289	279.15
8	11.058	435.551	2.309	11.320	435.253	2.304	11.582	434.953	2.300	11.846	434.653	2.296	281.15
10	10.955	437.465	2.315	11.213	437.174	2.311	11.473	436.882	2.307	11.733	436.590	2.303	283.15
12	10.854	439.373	2.322	11.110	439.089	2.318	11.366	438.805	2.314	11.623	438.521	2.310	285.15
14	10.756	441.276	2.329	11.008	441.000	2.325	11.262	440.723	2.320	11.516	440.446	2.316	287.15
16	10.660	443.175	2.335	10.910	442.906	2.331	11.160	442.636	2.327	11.411	442.365	2.323	289.15
18	10.566	445.070	2.342	10.813	444.807	2.338	11.061	444.544	2.334	11.309	444.280	2.330	291.15
20	10.475	446.961	2.348	10.719	446.705	2.344	10.964	446.448	2.340	11.209	446.191	2.336	293.15
22	10.385	448.849	2.355	10.627	448.600	2.351	10.869	448.349	2.347	11.112	448.098	2.343	295.15
24	10.298	450.735	2.361	10.537	450.491	2.357	10.776	450.247	2.353	11.017	450.002	2.349	297.15
26	10.212	452.619	2.367	10.448	452.381	2.363	10.686	452.142	2.359	10.923	451.903	2.356	299.15
28	10.128	454.500	2.374	10.362	454.268	2.370	10.597	454.034	2.366	10.832	453.801	2.362	301.15
30	10.046	456.380	2.380	10.277	456.153	2.376	10.510	455.925	2.372	10.743	455.697	2.368	303.15
32	9.965	458.259	2.386	10.195	458.037	2.382	10.425	457.814	2.378	10.656	457.591	2.374	305.15
34	9.886	460.137	2.392	10.113	459.919	2.388	10.342	459.702	2.384	10.570	459.483	2.381	307.15
36	9.809	462.014	2.398	10.034	461.801	2.394	10.260	461.588	2.390	10.486	461.375	2.387	309.15
38	9.733	463.891	2.404	9.956	463.683	2.400	10.180	463.474	2.397	10.404	463.266	2.393	311.15
40	9.658	465.767	2.410	9.879	465.564	2.406	10.101	465.360	2.403	10.323	465.156	2.399	313.15
42	9.585	467.644	2.416	9.804	467.445	2.412	10.024	467.245	2.409	10.244	467.045	2.405	315.15
44	9.513	469.521	2.422	9.731	469.326	2.418	9.948	469.131	2.415	10.167	468.935	2.411	317.15
46	9.443	471.399	2.428	9.658	471.208	2.424	9.874	471.017	2.421	10.091	470.825	2.417	319.15
48	9.374	473.278	2.434	9.587	473.091	2.430	9.801	472.903	2.426	10.016	472.715	2.423	321.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	4.6 bar			4.7 bar			4.8 bar			4.9 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
50	9.306	475.158	2.440	9.517	474.975	2.436	9.730	474.791	2.432	9.942	474.607	2.429	323.15
52	9.239	477.039	2.446	9.449	476.859	2.442	9.659	476.679	2.438	9.870	476.499	2.434	325.15
54	9.173	478.922	2.451	9.381	478.746	2.448	9.590	478.569	2.444	9.799	478.392	2.440	327.15
56	9.108	480.807	2.457	9.315	480.634	2.453	9.522	480.460	2.450	9.730	480.287	2.446	329.15
58	9.045	482.693	2.463	9.250	482.523	2.459	9.455	482.353	2.455	9.661	482.183	2.452	331.15
60	8.982	484.582	2.469	9.186	484.415	2.465	9.389	484.248	2.461	9.594	484.081	2.457	333.15
62	8.921	486.473	2.474	9.123	486.309	2.470	9.325	486.145	2.467	9.527	485.982	2.463	335.15
64	8.860	488.366	2.480	9.061	488.205	2.476	9.261	488.045	2.472	9.462	487.884	2.469	337.15
66	8.801	490.262	2.486	9.000	490.104	2.482	9.199	489.947	2.478	9.398	489.789	2.474	339.15
68	8.742	492.161	2.491	8.939	492.006	2.487	9.137	491.851	2.484	9.335	491.696	2.480	341.15
70	8.684	494.063	2.497	8.880	493.910	2.493	9.076	493.758	2.489	9.273	493.606	2.486	343.15
72	8.628	495.967	2.502	8.822	495.818	2.498	9.017	495.668	2.495	9.211	495.519	2.491	345.15
74	8.572	497.876	2.508	8.764	497.729	2.504	8.958	497.582	2.500	9.151	497.435	2.497	347.15
76	8.516	499.787	2.513	8.708	499.643	2.509	8.900	499.498	2.506	9.092	499.354	2.502	349.15
78	8.462	501.702	2.519	8.652	501.560	2.515	8.843	501.418	2.511	9.033	501.276	2.508	351.15
80	8.408	503.621	2.524	8.597	503.481	2.520	8.786	503.342	2.517	8.976	503.202	2.513	353.15
82	8.356	505.544	2.530	8.543	505.406	2.526	8.731	505.269	2.522	8.919	505.131	2.519	355.15
84	8.304	507.470	2.535	8.490	507.335	2.531	8.676	507.200	2.528	8.863	507.064	2.524	357.15
86	8.252	509.401	2.540	8.437	509.268	2.537	8.622	509.135	2.533	8.808	509.002	2.529	359.15
88	8.202	511.335	2.546	8.385	511.205	2.542	8.569	511.074	2.538	8.753	510.943	2.535	361.15
90	8.152	513.274	2.551	8.334	513.146	2.547	8.517	513.017	2.544	8.700	512.888	2.540	363.15
92	8.102	515.218	2.556	8.284	515.091	2.553	8.465	514.964	2.549	8.647	514.837	2.546	365.15
94	8.054	517.166	2.562	8.234	517.041	2.558	8.414	516.916	2.554	8.594	516.791	2.551	367.15
96	8.006	519.119	2.567	8.185	518.996	2.563	8.364	518.873	2.560	8.543	518.749	2.556	369.15
98	7.958	521.076	2.572	8.136	520.955	2.569	8.314	520.834	2.565	8.492	520.712	2.562	371.15
100	7.912	523.038	2.578	8.088	522.919	2.574	8.265	522.799	2.570	8.442	522.680	2.567	373.15
102	7.866	525.006	2.583	8.041	524.888	2.579	8.217	524.770	2.576	8.393	524.652	2.572	375.15
104	7.820	526.978	2.588	7.994	526.862	2.584	8.169	526.746	2.581	8.344	526.630	2.577	377.15
106	7.775	528.955	2.593	7.948	528.841	2.590	8.122	528.726	2.586	8.295	528.612	2.583	379.15
108	7.731	530.938	2.599	7.903	530.825	2.595	8.075	530.712	2.591	8.248	530.599	2.588	381.15
110	7.687	532.926	2.604	7.858	532.815	2.600	8.029	532.703	2.597	8.201	532.592	2.593	383.15
112	7.644	534.919	2.609	7.814	534.810	2.605	7.984	534.700	2.602	8.154	534.590	2.598	385.15
114	7.601	536.918	2.614	7.770	536.810	2.610	7.939	536.702	2.607	8.109	536.593	2.603	387.15
116	7.559	538.923	2.619	7.727	538.816	2.616	7.895	538.709	2.612	8.063	538.602	2.609	389.15
118	7.517	540.933	2.624	7.684	540.827	2.621	7.851	540.722	2.617	8.018	540.617	2.614	391.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	5.0 bar			5.2 bar			5.4 bar			5.6 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-12	13.477	414.375	2.218	14.094	413.557	2.210	14.719	412.730	2.201				261.15
-10	13.320	416.429	2.226	13.927	415.637	2.218	14.541	414.837	2.209	15.163	414.029	2.201	263.15
-8	13.168	418.467	2.234	13.765	417.701	2.225	14.369	416.926	2.217	14.980	416.145	2.209	265.15
-6	13.021	420.492	2.241	13.609	419.749	2.233	14.203	418.999	2.225	14.803	418.242	2.217	267.15
-4	12.879	422.503	2.249	13.458	421.783	2.241	14.042	421.056	2.233	14.633	420.323	2.225	269.15
-2	12.741	424.503	2.256	13.311	423.804	2.248	13.887	423.099	2.240	14.469	422.388	2.232	271.15
0	12.608	426.492	2.264	13.170	425.813	2.255	13.737	425.129	2.248	14.309	424.439	2.240	273.15
2	12.478	428.470	2.271	13.032	427.811	2.263	13.591	427.147	2.255	14.155	426.477	2.247	275.15
4	12.352	430.439	2.278	12.898	429.798	2.270	13.450	429.153	2.262	14.006	428.503	2.255	277.15
6	12.229	432.399	2.285	12.769	431.776	2.277	13.312	431.149	2.269	13.861	430.518	2.262	279.15
8	12.110	434.351	2.292	12.642	433.746	2.284	13.179	433.136	2.276	13.720	432.522	2.269	281.15
10	11.994	436.297	2.299	12.519	435.707	2.291	13.049	435.114	2.283	13.583	434.517	2.276	283.15
12	11.881	438.235	2.306	12.400	437.661	2.298	12.923	437.084	2.290	13.450	436.503	2.283	285.15
14	11.771	440.167	2.312	12.283	439.608	2.305	12.800	439.046	2.297	13.320	438.480	2.290	287.15
16	11.663	442.094	2.319	12.170	441.549	2.311	12.680	441.002	2.304	13.194	440.451	2.297	289.15
18	11.558	444.016	2.326	12.059	443.485	2.318	12.563	442.951	2.311	13.071	442.415	2.304	291.15
20	11.456	445.933	2.332	11.951	445.416	2.325	12.449	444.895	2.317	12.951	444.372	2.310	293.15
22	11.356	447.847	2.339	11.845	447.342	2.331	12.338	446.834	2.324	12.834	446.324	2.317	295.15
24	11.258	449.756	2.345	11.742	449.263	2.338	12.230	448.768	2.331	12.720	448.270	2.323	297.15
26	11.162	451.663	2.352	11.641	451.182	2.344	12.124	450.698	2.337	12.609	450.213	2.330	299.15
28	11.068	453.567	2.358	11.543	453.097	2.351	12.020	452.625	2.343	12.500	452.151	2.336	301.15
30	10.977	455.468	2.364	11.446	455.009	2.357	11.919	454.548	2.350	12.393	454.085	2.343	303.15
32	10.887	457.367	2.371	11.352	456.919	2.363	11.819	456.468	2.356	12.289	456.016	2.349	305.15
34	10.799	459.265	2.377	11.260	458.826	2.369	11.722	458.386	2.362	12.187	457.944	2.355	307.15
36	10.713	461.161	2.383	11.169	460.732	2.376	11.627	460.302	2.369	12.088	459.870	2.362	309.15
38	10.629	463.056	2.389	11.080	462.637	2.382	11.534	462.216	2.375	11.990	461.794	2.368	311.15
40	10.546	464.951	2.395	10.993	464.541	2.388	11.443	464.129	2.381	11.894	463.715	2.374	313.15
42	10.465	466.845	2.401	10.908	466.443	2.394	11.353	466.040	2.387	11.801	465.636	2.380	315.15
44	10.386	468.739	2.407	10.825	468.346	2.400	11.266	467.951	2.393	11.709	467.555	2.386	317.15
46	10.307	470.633	2.413	10.743	470.248	2.406	11.180	469.862	2.399	11.619	469.474	2.392	319.15
48	10.231	472.527	2.419	10.662	472.150	2.412	11.095	471.772	2.405	11.530	471.392	2.398	321.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	5.0 bar			5.2 bar			5.4 bar			5.6 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
50	10.155	474.422	2.425	10.583	474.053	2.418	11.012	473.682	2.411	11.444	473.310	2.404	323.15
52	10.081	476.318	2.431	10.505	475.956	2.424	10.931	475.593	2.417	11.358	475.228	2.410	325.15
54	10.009	478.215	2.437	10.429	477.860	2.429	10.851	477.504	2.423	11.275	477.147	2.416	327.15
56	9.937	480.113	2.442	10.354	479.765	2.435	10.773	479.416	2.428	11.193	479.066	2.422	329.15
58	9.867	482.013	2.448	10.281	481.671	2.441	10.696	481.329	2.434	11.112	480.986	2.428	331.15
60	9.798	483.914	2.454	10.208	483.579	2.447	10.620	483.243	2.440	11.033	482.907	2.433	333.15
62	9.730	485.818	2.460	10.137	485.489	2.453	10.545	485.159	2.446	10.955	484.829	2.439	335.15
64	9.663	487.723	2.465	10.067	487.400	2.458	10.472	487.077	2.451	10.878	486.752	2.445	337.15
66	9.598	489.631	2.471	9.998	489.314	2.464	10.400	488.996	2.457	10.803	488.678	2.451	339.15
68	9.533	491.541	2.476	9.930	491.229	2.470	10.329	490.918	2.463	10.729	490.605	2.456	341.15
70	9.469	493.453	2.482	9.864	493.148	2.475	10.259	492.841	2.468	10.656	492.534	2.462	343.15
72	9.407	495.369	2.488	9.798	495.069	2.481	10.191	494.768	2.474	10.585	494.466	2.468	345.15
74	9.345	497.287	2.493	9.733	496.992	2.486	10.123	496.697	2.480	10.514	496.400	2.473	347.15
76	9.284	499.209	2.499	9.670	498.919	2.492	10.057	498.628	2.485	10.445	498.337	2.479	349.15
78	9.224	501.134	2.504	9.607	500.849	2.497	9.991	500.563	2.491	10.376	500.277	2.484	351.15
80	9.165	503.062	2.510	9.545	502.781	2.503	9.926	502.501	2.496	10.309	502.219	2.490	353.15
82	9.107	504.994	2.515	9.484	504.718	2.508	9.863	504.442	2.502	10.242	504.165	2.495	355.15
84	9.050	506.929	2.521	9.425	506.658	2.514	9.800	506.386	2.507	10.177	506.114	2.501	357.15
86	8.993	508.868	2.526	9.365	508.601	2.519	9.738	508.334	2.513	10.113	508.066	2.506	359.15
88	8.938	510.811	2.531	9.307	510.549	2.525	9.678	510.286	2.518	10.049	510.022	2.512	361.15
90	8.883	512.759	2.537	9.250	512.500	2.530	9.618	512.241	2.523	9.987	511.982	2.517	363.15
92	8.829	514.710	2.542	9.193	514.456	2.535	9.558	514.201	2.529	9.925	513.945	2.522	365.15
94	8.775	516.666	2.547	9.137	516.415	2.541	9.500	516.164	2.534	9.864	515.913	2.528	367.15
96	8.722	518.626	2.553	9.082	518.379	2.546	9.443	518.132	2.539	9.804	517.884	2.533	369.15
98	8.670	520.591	2.558	9.028	520.348	2.551	9.386	520.104	2.545	9.745	519.860	2.538	371.15
100	8.619	522.560	2.563	8.974	522.321	2.557	9.330	522.081	2.550	9.687	521.840	2.544	373.15
102	8.569	524.534	2.569	8.921	524.298	2.562	9.275	524.062	2.555	9.629	523.825	2.549	375.15
104	8.519	526.513	2.574	8.869	526.281	2.567	9.220	526.048	2.561	9.572	525.814	2.554	377.15
106	8.469	528.497	2.579	8.817	528.268	2.572	9.166	528.038	2.566	9.516	527.808	2.560	379.15
108	8.421	530.486	2.584	8.767	530.260	2.578	9.113	530.034	2.571	9.461	529.807	2.565	381.15
110	8.372	532.481	2.590	8.716	532.258	2.583	9.061	532.034	2.576	9.406	531.811	2.570	383.15
112	8.325	534.480	2.595	8.667	534.260	2.588	9.009	534.040	2.582	9.352	533.820	2.575	385.15
114	8.278	536.485	2.600	8.618	536.268	2.593	8.958	536.051	2.587	9.299	535.833	2.581	387.15
116	8.232	538.495	2.605	8.569	538.281	2.598	8.908	538.067	2.592	9.246	537.852	2.586	389.15
118	8.186	540.511	2.610	8.522	540.300	2.604	8.858	540.088	2.597	9.194	539.877	2.591	391.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	5.8 bar			6.0 bar			6.2 bar			6.4 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-8	15.598	415.355	2.201	16.223	414.557	2.193	16.857	413.752	2.186				265.15
-6	15.411	417.478	2.209	16.025	416.707	2.201	16.647	415.928	2.194	17.276	415.141	2.187	267.15
-4	15.230	419.583	2.217	15.834	418.836	2.209	16.445	418.083	2.202	17.062	417.322	2.195	269.15
-2	15.056	421.671	2.225	15.650	420.948	2.217	16.250	420.219	2.210	16.857	419.483	2.203	271.15
0	14.888	423.744	2.232	15.472	423.043	2.225	16.062	422.337	2.218	16.658	421.624	2.211	273.15
2	14.725	425.803	2.240	15.300	425.123	2.232	15.881	424.438	2.225	16.467	423.747	2.218	275.15
4	14.567	427.849	2.247	15.133	427.189	2.240	15.705	426.524	2.233	16.282	425.854	2.226	277.15
6	14.414	429.882	2.254	14.972	429.241	2.247	15.535	428.596	2.240	16.103	427.946	2.233	279.15
8	14.265	431.904	2.262	14.815	431.282	2.255	15.370	430.655	2.248	15.930	430.024	2.241	281.15
10	14.121	433.916	2.269	14.664	433.311	2.262	15.211	432.702	2.255	15.762	432.089	2.248	283.15
12	13.981	435.918	2.276	14.516	435.330	2.269	15.056	434.738	2.262	15.599	434.142	2.255	285.15
14	13.844	437.912	2.283	14.373	437.339	2.276	14.905	436.763	2.269	15.441	436.184	2.263	287.15
16	13.712	439.897	2.290	14.233	439.340	2.283	14.758	438.779	2.276	15.288	438.216	2.270	289.15
18	13.582	441.875	2.297	14.097	441.332	2.290	14.616	440.787	2.283	15.138	440.238	2.277	291.15
20	13.456	443.846	2.303	13.965	443.317	2.297	14.477	442.786	2.290	14.993	442.251	2.283	293.15
22	13.334	445.811	2.310	13.836	445.296	2.303	14.342	444.778	2.297	14.851	444.257	2.290	295.15
24	13.214	447.770	2.317	13.711	447.268	2.310	14.210	446.763	2.303	14.714	446.255	2.297	297.15
26	13.097	449.725	2.323	13.588	449.234	2.316	14.082	448.742	2.310	14.579	448.247	2.304	299.15
28	12.983	451.674	2.330	13.468	451.196	2.323	13.957	450.715	2.317	14.448	450.232	2.310	301.15
30	12.871	453.620	2.336	13.351	453.153	2.329	13.834	452.684	2.323	14.320	452.212	2.317	303.15
32	12.762	455.562	2.342	13.237	455.106	2.336	13.715	454.648	2.330	14.195	454.187	2.323	305.15
34	12.655	457.500	2.349	13.125	457.055	2.342	13.598	456.607	2.336	14.073	456.158	2.330	307.15
36	12.551	459.436	2.355	13.016	459.001	2.349	13.484	458.563	2.342	13.954	458.124	2.336	309.15
38	12.448	461.369	2.361	12.909	460.944	2.355	13.372	460.516	2.349	13.837	460.087	2.342	311.15
40	12.348	463.301	2.367	12.804	462.884	2.361	13.262	462.466	2.355	13.723	462.047	2.349	313.15
42	12.250	465.230	2.374	12.702	464.823	2.367	13.155	464.414	2.361	13.611	464.004	2.355	315.15
44	12.154	467.158	2.380	12.601	466.760	2.373	13.050	466.360	2.367	13.502	465.959	2.361	317.15
46	12.060	469.085	2.386	12.503	468.695	2.379	12.948	468.304	2.373	13.395	467.911	2.367	319.15
48	11.967	471.012	2.392	12.406	470.630	2.386	12.847	470.246	2.379	13.290	469.862	2.373	321.15
50	11.877	472.937	2.398	12.311	472.563	2.392	12.748	472.188	2.385	13.187	471.812	2.379	323.15
52	11.788	474.863	2.404	12.219	474.497	2.397	12.651	474.129	2.391	13.086	473.760	2.385	325.15
54	11.700	476.789	2.410	12.127	476.430	2.403	12.556	476.069	2.397	12.987	475.708	2.391	327.15
56	11.615	478.715	2.415	12.038	478.363	2.409	12.463	478.010	2.403	12.890	477.656	2.397	329.15
58	11.530	480.641	2.421	11.950	480.296	2.415	12.371	479.950	2.409	12.794	479.603	2.403	331.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	5.8 bar			6.0 bar			6.2 bar			6.4 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
60	11.448	482.569	2.427	11.864	482.230	2.421	12.282	481.891	2.415	12.701	481.551	2.409	333.15
62	11.366	484.497	2.433	11.779	484.165	2.427	12.193	483.832	2.421	12.609	483.499	2.415	335.15
64	11.286	486.427	2.439	11.696	486.101	2.433	12.106	485.775	2.427	12.519	485.447	2.421	337.15
66	11.208	488.359	2.444	11.614	488.039	2.438	12.021	487.718	2.432	12.430	487.397	2.427	339.15
68	11.130	490.292	2.450	11.533	489.978	2.444	11.937	489.663	2.438	12.343	489.348	2.432	341.15
70	11.054	492.227	2.456	11.454	491.918	2.450	11.855	491.609	2.444	12.257	491.300	2.438	343.15
72	10.980	494.164	2.461	11.376	493.861	2.455	11.774	493.558	2.449	12.173	493.253	2.444	345.15
74	10.906	496.103	2.467	11.299	495.806	2.461	11.694	495.508	2.455	12.090	495.209	2.449	347.15
76	10.834	498.045	2.473	11.224	497.753	2.466	11.615	497.460	2.461	12.008	497.166	2.455	349.15
78	10.762	499.990	2.478	11.150	499.702	2.472	11.538	499.414	2.466	11.928	499.126	2.461	351.15
80	10.692	501.937	2.484	11.077	501.655	2.478	11.462	501.372	2.472	11.849	501.088	2.466	353.15
82	10.623	503.888	2.489	11.005	503.610	2.483	11.387	503.331	2.477	11.771	503.053	2.472	355.15
84	10.555	505.841	2.495	10.934	505.568	2.489	11.314	505.294	2.483	11.695	505.020	2.477	357.15
86	10.488	507.798	2.500	10.864	507.529	2.494	11.241	507.260	2.488	11.619	506.990	2.483	359.15
88	10.422	509.758	2.505	10.795	509.494	2.500	11.169	509.229	2.494	11.545	508.963	2.488	361.15
90	10.356	511.722	2.511	10.727	511.462	2.505	11.099	511.201	2.499	11.472	510.940	2.494	363.15
92	10.292	513.690	2.516	10.660	513.433	2.510	11.029	513.177	2.505	11.400	512.920	2.499	365.15
94	10.229	515.661	2.522	10.594	515.409	2.516	10.961	515.156	2.510	11.328	514.903	2.504	367.15
96	10.166	517.636	2.527	10.529	517.388	2.521	10.893	517.139	2.515	11.258	516.890	2.510	369.15
98	10.105	519.616	2.532	10.465	519.371	2.527	10.827	519.126	2.521	11.189	518.881	2.515	371.15
100	10.044	521.600	2.538	10.402	521.359	2.532	10.761	521.118	2.526	11.121	520.876	2.521	373.15
102	9.984	523.588	2.543	10.340	523.351	2.537	10.697	523.113	2.531	11.054	522.875	2.526	375.15
104	9.925	525.581	2.548	10.278	525.347	2.542	10.633	525.113	2.537	10.988	524.878	2.531	377.15
106	9.867	527.578	2.554	10.218	527.348	2.548	10.570	527.117	2.542	10.922	526.885	2.537	379.15
108	9.809	529.580	2.559	10.158	529.353	2.553	10.508	529.125	2.547	10.858	528.897	2.542	381.15
110	9.752	531.587	2.564	10.099	531.363	2.558	10.446	531.138	2.553	10.794	530.914	2.547	383.15
112	9.696	533.599	2.569	10.041	533.378	2.564	10.386	533.156	2.558	10.732	532.935	2.552	385.15
114	9.641	535.616	2.575	9.983	535.398	2.569	10.326	535.179	2.563	10.670	534.961	2.558	387.15
116	9.586	537.638	2.580	9.926	537.423	2.574	10.267	537.207	2.568	10.609	536.992	2.563	389.15
118	9.532	539.665	2.585	9.870	539.453	2.579	10.209	539.240	2.574	10.548	539.028	2.568	391.15
120	9.479	541.697	2.590	9.815	541.488	2.584	10.151	541.279	2.579	10.489	541.069	2.573	393.15
122	9.426	543.735	2.595	9.760	543.529	2.590	10.094	543.322	2.584	10.430	543.115	2.578	395.15
124	9.374	545.779	2.601	9.706	545.575	2.595	10.038	545.371	2.589	10.372	545.167	2.584	397.15
126	9.322	547.828	2.606	9.652	547.627	2.600	9.983	547.425	2.594	10.314	547.223	2.589	399.15
128	9.272	549.883	2.611	9.600	549.684	2.605	9.928	549.485	2.599	10.257	549.286	2.594	401.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	6.6 bar			6.8 bar			7.0 bar			7.2 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
-4	17.687	416.554	2.188	18.319	415.778	2.181	18.959	414.995	2.174				269.15
-2	17.470	418.740	2.196	18.090	417.990	2.189	18.717	417.233	2.182	19.352	416.468	2.175	271.15
0	17.261	420.905	2.204	17.870	420.179	2.197	18.486	419.447	2.190	19.108	418.708	2.183	273.15
2	17.059	423.051	2.211	17.658	422.348	2.205	18.263	421.640	2.198	18.874	420.925	2.192	275.15
4	16.865	425.179	2.219	17.453	424.499	2.212	18.047	423.813	2.206	18.648	423.121	2.199	277.15
6	16.677	427.291	2.227	17.256	426.632	2.220	17.840	425.967	2.214	18.430	425.296	2.207	279.15
8	16.495	429.389	2.234	17.065	428.748	2.228	17.639	428.103	2.221	18.220	427.454	2.215	281.15
10	16.318	431.472	2.242	16.880	430.850	2.235	17.446	430.224	2.229	18.017	429.594	2.223	283.15
12	16.148	433.542	2.249	16.700	432.939	2.242	17.258	432.331	2.236	17.820	431.719	2.230	285.15
14	15.982	435.601	2.256	16.527	435.014	2.250	17.076	434.423	2.244	17.630	433.829	2.237	287.15
16	15.821	437.648	2.263	16.358	437.078	2.257	16.900	436.504	2.251	17.445	435.926	2.245	289.15
18	15.664	439.686	2.270	16.194	439.131	2.264	16.728	438.572	2.258	17.266	438.010	2.252	291.15
20	15.512	441.714	2.277	16.035	441.174	2.271	16.562	440.630	2.265	17.093	440.084	2.259	293.15
22	15.364	443.733	2.284	15.880	443.207	2.278	16.400	442.678	2.272	16.924	442.146	2.266	295.15
24	15.220	445.745	2.291	15.730	445.232	2.285	16.243	444.717	2.279	16.760	444.199	2.273	297.15
26	15.080	447.750	2.298	15.583	447.250	2.291	16.090	446.747	2.286	16.600	446.243	2.280	299.15
28	14.943	449.747	2.304	15.440	449.260	2.298	15.941	448.770	2.292	16.444	448.278	2.287	301.15
30	14.809	451.739	2.311	15.301	451.264	2.305	15.795	450.786	2.299	16.293	450.306	2.293	303.15
32	14.678	453.725	2.317	15.164	453.261	2.311	15.653	452.795	2.306	16.145	452.327	2.300	305.15
34	14.551	455.707	2.324	15.032	455.254	2.318	15.515	454.799	2.312	16.001	454.342	2.307	307.15
36	14.427	457.684	2.330	14.902	457.241	2.324	15.380	456.797	2.319	15.860	456.351	2.313	309.15
38	14.305	459.657	2.337	14.775	459.224	2.331	15.248	458.790	2.325	15.723	458.354	2.319	311.15
40	14.186	461.626	2.343	14.651	461.203	2.337	15.119	460.779	2.331	15.589	460.353	2.326	313.15
42	14.069	463.592	2.349	14.530	463.179	2.343	14.993	462.764	2.338	15.457	462.348	2.332	315.15
44	13.955	465.556	2.355	14.411	465.152	2.350	14.869	464.746	2.344	15.329	464.339	2.339	317.15
46	13.844	467.517	2.361	14.295	467.122	2.356	14.748	466.725	2.350	15.204	466.327	2.345	319.15
48	13.735	469.476	2.368	14.181	469.089	2.362	14.630	468.701	2.356	15.081	468.312	2.351	321.15
50	13.627	471.434	2.374	14.070	471.055	2.368	14.514	470.675	2.363	14.961	470.294	2.357	323.15
52	13.522	473.390	2.380	13.961	473.019	2.374	14.401	472.647	2.369	14.843	472.274	2.363	325.15
54	13.419	475.346	2.386	13.854	474.982	2.380	14.289	474.618	2.375	14.727	474.252	2.369	327.15
56	13.318	477.301	2.392	13.748	476.945	2.386	14.180	476.587	2.381	14.614	476.229	2.375	329.15
58	13.219	479.255	2.398	13.645	478.906	2.392	14.073	478.556	2.387	14.503	478.205	2.381	331.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	6.6 bar			6.8 bar			7.0 bar			7.2 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
60	13.122	481.209	2.403	13.544	480.867	2.398	13.968	480.524	2.393	14.394	480.180	2.387	333.15
62	13.026	483.164	2.409	13.445	482.828	2.404	13.865	482.492	2.398	14.287	482.155	2.393	335.15
64	12.932	485.119	2.415	13.348	484.790	2.410	13.764	484.460	2.404	14.183	484.129	2.399	337.15
66	12.840	487.075	2.421	13.252	486.752	2.415	13.665	486.428	2.410	14.080	486.103	2.405	339.15
68	12.750	489.031	2.427	13.158	488.714	2.421	13.567	488.397	2.416	13.978	488.078	2.411	341.15
70	12.661	490.989	2.432	13.065	490.678	2.427	13.472	490.366	2.422	13.879	490.054	2.416	343.15
72	12.573	492.948	2.438	12.974	492.643	2.433	13.377	492.337	2.427	13.782	492.030	2.422	345.15
74	12.487	494.909	2.444	12.885	494.609	2.438	13.285	494.309	2.433	13.686	494.007	2.428	347.15
76	12.402	496.872	2.449	12.797	496.577	2.444	13.194	496.282	2.439	13.591	495.986	2.434	349.15
78	12.319	498.837	2.455	12.711	498.547	2.450	13.104	498.257	2.444	13.499	497.966	2.439	351.15
80	12.237	500.804	2.461	12.626	500.519	2.455	13.016	500.234	2.450	13.407	499.948	2.445	353.15
82	12.156	502.773	2.466	12.542	502.493	2.461	12.929	502.213	2.456	13.318	501.932	2.451	355.15
84	12.077	504.745	2.472	12.460	504.470	2.466	12.844	504.194	2.461	13.229	503.918	2.456	357.15
86	11.998	506.720	2.477	12.379	506.449	2.472	12.760	506.178	2.467	13.142	505.906	2.462	359.15
88	11.921	508.698	2.483	12.299	508.431	2.477	12.677	508.164	2.472	13.057	507.897	2.467	361.15
90	11.845	510.678	2.488	12.220	510.416	2.483	12.596	510.154	2.478	12.972	509.891	2.473	363.15
92	11.771	512.662	2.494	12.143	512.404	2.488	12.515	512.146	2.483	12.889	511.887	2.478	365.15
94	11.697	514.650	2.499	12.066	514.396	2.494	12.436	514.142	2.489	12.808	513.887	2.484	367.15
96	11.624	516.641	2.504	11.991	516.391	2.499	12.359	516.141	2.494	12.727	515.890	2.489	369.15
98	11.553	518.635	2.510	11.917	518.389	2.505	12.282	518.143	2.499	12.648	517.896	2.494	371.15
100	11.482	520.634	2.515	11.844	520.392	2.510	12.206	520.149	2.505	12.569	519.906	2.500	373.15
102	11.412	522.636	2.521	11.772	522.398	2.515	12.132	522.159	2.510	12.492	521.919	2.505	375.15
104	11.344	524.643	2.526	11.700	524.408	2.521	12.058	524.172	2.516	12.416	523.936	2.511	377.15
106	11.276	526.654	2.531	11.630	526.422	2.526	11.985	526.190	2.521	12.341	525.957	2.516	379.15
108	11.209	528.669	2.537	11.561	528.441	2.531	11.914	528.212	2.526	12.267	527.983	2.521	381.15
110	11.143	530.689	2.542	11.493	530.464	2.537	11.843	530.238	2.532	12.194	530.012	2.527	383.15
112	11.078	532.713	2.547	11.426	532.491	2.542	11.774	532.269	2.537	12.123	532.046	2.532	385.15
114	11.014	534.742	2.552	11.359	534.523	2.547	11.705	534.304	2.542	12.052	534.084	2.537	387.15
116	10.951	536.776	2.558	11.294	536.560	2.552	11.637	536.344	2.547	11.982	536.127	2.542	389.15
118	10.888	538.815	2.563	11.229	538.602	2.558	11.570	538.388	2.553	11.912	538.175	2.548	391.15
120	10.827	540.859	2.568	11.165	540.648	2.563	11.504	540.438	2.558	11.844	540.227	2.553	393.15
122	10.766	542.908	2.573	11.102	542.700	2.568	11.439	542.492	2.563	11.777	542.285	2.558	395.15
124	10.705	544.962	2.578	11.040	544.757	2.573	11.375	544.552	2.568	11.710	544.347	2.563	397.15
126	10.646	547.022	2.584	10.978	546.819	2.578	11.311	546.617	2.573	11.645	546.415	2.569	399.15
128	10.587	549.087	2.589	10.918	548.887	2.584	11.248	548.687	2.579	11.580	548.487	2.574	401.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	7.4 bar			7.6 bar			7.8 bar			8.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
0	19.738	417.963	2.177	20.375	417.210	2.171	21.019	416.449	2.164	21.671	415.681	2.158	273.15
2	19.491	420.204	2.185	20.116	419.477	2.179	20.747	418.742	2.173	21.386	418.001	2.166	275.15
4	19.254	422.423	2.193	19.867	421.719	2.187	20.486	421.009	2.181	21.112	420.293	2.175	277.15
6	19.026	424.621	2.201	19.628	423.939	2.195	20.235	423.253	2.189	20.850	422.560	2.183	279.15
8	18.805	426.799	2.209	19.397	426.139	2.203	19.994	425.474	2.197	20.597	424.803	2.191	281.15
10	18.593	428.959	2.216	19.174	428.319	2.210	19.761	427.675	2.205	20.353	427.025	2.199	283.15
12	18.387	431.103	2.224	18.959	430.482	2.218	19.536	429.857	2.212	20.118	429.228	2.207	285.15
14	18.188	433.231	2.231	18.751	432.628	2.226	19.319	432.022	2.220	19.891	431.411	2.214	287.15
16	17.995	435.345	2.239	18.550	434.760	2.233	19.109	434.171	2.227	19.672	433.578	2.222	289.15
18	17.808	437.445	2.246	18.355	436.877	2.240	18.905	436.304	2.235	19.460	435.729	2.229	291.15
20	17.627	439.534	2.253	18.165	438.981	2.247	18.708	438.425	2.242	19.254	437.865	2.236	293.15
22	17.451	441.611	2.260	17.982	441.073	2.255	18.517	440.532	2.249	19.055	439.988	2.244	295.15
24	17.280	443.678	2.267	17.803	443.154	2.262	18.331	442.628	2.256	18.862	442.098	2.251	297.15
26	17.113	445.735	2.274	17.630	445.225	2.269	18.150	444.712	2.263	18.674	444.197	2.258	299.15
28	16.951	447.784	2.281	17.461	447.287	2.275	17.975	446.787	2.270	18.492	446.285	2.265	301.15
30	16.793	449.824	2.288	17.297	449.339	2.282	17.804	448.853	2.277	18.314	448.364	2.272	303.15
32	16.640	451.857	2.294	17.137	451.384	2.289	17.638	450.910	2.284	18.141	450.433	2.278	305.15
34	16.490	453.883	2.301	16.981	453.422	2.296	17.476	452.959	2.290	17.973	452.494	2.285	307.15
36	16.343	455.903	2.308	16.829	455.453	2.302	17.318	455.001	2.297	17.809	454.547	2.292	309.15
38	16.201	457.917	2.314	16.681	457.478	2.309	17.164	457.036	2.304	17.649	456.593	2.298	311.15
40	16.061	459.926	2.321	16.536	459.497	2.315	17.013	459.066	2.310	17.493	458.633	2.305	313.15
42	15.925	461.930	2.327	16.394	461.511	2.322	16.867	461.090	2.316	17.341	460.668	2.311	315.15
44	15.792	463.931	2.333	16.256	463.521	2.328	16.723	463.109	2.323	17.192	462.696	2.318	317.15
46	15.661	465.927	2.339	16.121	465.527	2.334	16.583	465.124	2.329	17.047	464.721	2.324	319.15
48	15.534	467.921	2.346	15.989	467.529	2.341	16.446	467.135	2.335	16.905	466.741	2.331	321.15
50	15.409	469.912	2.352	15.859	469.528	2.347	16.312	469.143	2.342	16.766	468.757	2.337	323.15
52	15.287	471.900	2.358	15.733	471.524	2.353	16.180	471.147	2.348	16.630	470.769	2.343	325.15
54	15.167	473.886	2.364	15.608	473.518	2.359	16.052	473.149	2.354	16.497	472.779	2.349	327.15
56	15.050	475.870	2.370	15.487	475.510	2.365	15.926	475.149	2.360	16.367	474.786	2.355	329.15
58	14.934	477.853	2.376	15.368	477.500	2.371	15.802	477.146	2.366	16.239	476.791	2.361	331.15
60	14.822	479.835	2.382	15.251	479.489	2.377	15.681	479.142	2.372	16.114	478.795	2.367	333.15
62	14.711	481.817	2.388	15.136	481.477	2.383	15.563	481.137	2.378	15.991	480.797	2.373	335.15
64	14.602	483.797	2.394	15.024	483.465	2.389	15.447	483.131	2.384	15.871	482.797	2.379	337.15
66	14.496	485.778	2.400	14.913	485.452	2.395	15.332	485.125	2.390	15.753	484.797	2.385	339.15
68	14.391	487.759	2.406	14.805	487.439	2.401	15.220	487.118	2.396	15.637	486.797	2.391	341.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	7.4 bar			7.6 bar			7.8 bar			8.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
70	14.288	489.740	2.411	14.698	489.426	2.406	15.110	489.111	2.402	15.523	488.796	2.397	343.15
72	14.187	491.722	2.417	14.594	491.414	2.412	15.002	491.105	2.407	15.412	490.795	2.403	345.15
74	14.088	493.705	2.423	14.491	493.402	2.418	14.896	493.099	2.413	15.302	492.795	2.409	347.15
76	13.990	495.689	2.429	14.390	495.392	2.424	14.792	495.094	2.419	15.194	494.795	2.414	349.15
78	13.894	497.675	2.434	14.291	497.382	2.429	14.689	497.090	2.425	15.088	496.796	2.420	351.15
80	13.800	499.662	2.440	14.193	499.375	2.435	14.588	499.087	2.430	14.984	498.799	2.426	353.15
82	13.707	501.650	2.446	14.097	501.368	2.441	14.489	501.086	2.436	14.882	500.802	2.431	355.15
84	13.616	503.641	2.451	14.003	503.364	2.446	14.392	503.086	2.442	14.781	502.808	2.437	357.15
86	13.526	505.634	2.457	13.910	505.361	2.452	14.296	505.088	2.447	14.682	504.815	2.443	359.15
88	13.437	507.630	2.462	13.819	507.361	2.457	14.201	507.093	2.453	14.585	506.824	2.448	361.15
90	13.350	509.628	2.468	13.729	509.364	2.463	14.108	509.099	2.458	14.489	508.835	2.454	363.15
92	13.264	511.628	2.473	13.640	511.369	2.468	14.017	511.109	2.464	14.395	510.848	2.459	365.15
94	13.180	513.632	2.479	13.553	513.377	2.474	13.927	513.121	2.469	14.302	512.864	2.465	367.15
96	13.096	515.639	2.484	13.467	515.387	2.479	13.838	515.135	2.475	14.210	514.883	2.470	369.15
98	13.014	517.649	2.490	13.382	517.401	2.485	13.751	517.153	2.480	14.120	516.905	2.476	371.15
100	12.934	519.662	2.495	13.299	519.418	2.490	13.665	519.174	2.486	14.031	518.930	2.481	373.15
102	12.854	521.679	2.500	13.216	521.439	2.496	13.580	521.199	2.491	13.944	520.958	2.487	375.15
104	12.775	523.700	2.506	13.135	523.464	2.501	13.496	523.227	2.496	13.858	522.989	2.492	377.15
106	12.698	525.725	2.511	13.055	525.492	2.506	13.414	525.258	2.502	13.773	525.024	2.497	379.15
108	12.622	527.753	2.516	12.977	527.524	2.512	13.332	527.294	2.507	13.689	527.063	2.503	381.15
110	12.546	529.786	2.522	12.899	529.560	2.517	13.252	529.333	2.513	13.606	529.106	2.508	383.15
112	12.472	531.823	2.527	12.822	531.600	2.522	13.173	531.376	2.518	13.525	531.153	2.513	385.15
114	12.399	533.864	2.532	12.747	533.644	2.528	13.095	533.424	2.523	13.445	533.203	2.519	387.15
116	12.326	535.910	2.538	12.672	535.693	2.533	13.018	535.476	2.528	13.366	535.258	2.524	389.15
118	12.255	537.961	2.543	12.599	537.747	2.538	12.943	537.533	2.534	13.287	537.318	2.529	391.15
120	12.185	540.016	2.548	12.526	539.805	2.543	12.868	539.594	2.539	13.210	539.382	2.535	393.15
122	12.115	542.076	2.553	12.454	541.868	2.549	12.794	541.659	2.544	13.134	541.451	2.540	395.15
124	12.047	544.142	2.559	12.383	543.936	2.554	12.721	543.730	2.549	13.059	543.524	2.545	397.15
126	11.979	546.212	2.564	12.314	546.009	2.559	12.649	545.806	2.555	12.985	545.602	2.550	399.15
128	11.912	548.287	2.569	12.245	548.087	2.564	12.578	547.886	2.560	12.912	547.685	2.555	401.15
130	11.846	550.368	2.574	12.177	550.170	2.570	12.508	549.972	2.565	12.839	549.774	2.561	403.15
132	11.781	552.454	2.579	12.109	552.259	2.575	12.438	552.063	2.570	12.768	551.867	2.566	405.15
134	11.716	554.546	2.584	12.043	554.353	2.580	12.370	554.160	2.575	12.698	553.966	2.571	407.15
136	11.653	556.643	2.590	11.977	556.452	2.585	12.302	556.262	2.580	12.628	556.071	2.576	409.15
138	11.590	558.746	2.595	11.912	558.557	2.590	12.236	558.369	2.586	12.559	558.180	2.581	411.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	8.2 bar			8.4 bar			8.6 bar			8.8 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
2	22.032	417.252	2.160	22.686	416.497	2.154	23.348	415.733	2.148				275.15
4	21.745	419.570	2.169	22.385	418.841	2.163	23.033	418.104	2.157	23.688	417.361	2.151	277.15
6	21.470	421.861	2.177	22.097	421.157	2.171	22.731	420.445	2.165	23.372	419.728	2.160	279.15
8	21.206	424.128	2.185	21.821	423.446	2.179	22.442	422.759	2.174	23.070	422.065	2.168	281.15
10	20.951	426.371	2.193	21.555	425.711	2.187	22.165	425.047	2.182	22.780	424.376	2.176	283.15
12	20.706	428.593	2.201	21.299	427.954	2.195	21.897	427.311	2.190	22.502	426.662	2.184	285.15
14	20.469	430.796	2.209	21.052	430.177	2.203	21.640	429.553	2.198	22.233	428.925	2.192	287.15
16	20.240	432.981	2.216	20.813	432.380	2.211	21.391	431.775	2.205	21.974	431.166	2.200	289.15
18	20.019	435.149	2.224	20.583	434.566	2.218	21.152	433.979	2.213	21.725	433.388	2.208	291.15
20	19.805	437.302	2.231	20.360	436.736	2.226	20.920	436.166	2.220	21.484	435.592	2.215	293.15
22	19.598	439.441	2.238	20.144	438.890	2.233	20.695	438.336	2.228	21.250	437.779	2.223	295.15
24	19.397	441.566	2.245	19.935	441.030	2.240	20.478	440.492	2.235	21.024	439.950	2.230	297.15
26	19.201	443.679	2.253	19.732	443.158	2.247	20.267	442.634	2.242	20.806	442.108	2.237	299.15
28	19.012	445.781	2.260	19.535	445.274	2.254	20.063	444.764	2.249	20.593	444.251	2.244	301.15
30	18.827	447.872	2.266	19.344	447.378	2.261	19.864	446.882	2.256	20.387	446.383	2.251	303.15
32	18.648	449.954	2.273	19.158	449.472	2.268	19.671	448.989	2.263	20.187	448.503	2.258	305.15
34	18.473	452.027	2.280	18.977	451.557	2.275	19.483	451.086	2.270	19.992	450.612	2.265	307.15
36	18.303	454.091	2.287	18.800	453.634	2.282	19.300	453.174	2.277	19.803	452.712	2.272	309.15
38	18.137	456.149	2.293	18.628	455.702	2.288	19.122	455.253	2.284	19.619	454.803	2.279	311.15
40	17.976	458.199	2.300	18.461	457.763	2.295	18.949	457.325	2.290	19.439	456.886	2.286	313.15
42	17.818	460.243	2.306	18.297	459.818	2.302	18.779	459.390	2.297	19.264	458.961	2.292	315.15
44	17.664	462.282	2.313	18.138	461.866	2.308	18.614	461.448	2.303	19.093	461.029	2.299	317.15
46	17.513	464.315	2.319	17.982	463.909	2.314	18.453	463.501	2.310	18.927	463.091	2.305	319.15
48	17.366	466.344	2.326	17.830	465.947	2.321	18.296	465.548	2.316	18.764	465.148	2.312	321.15
50	17.223	468.369	2.332	17.681	467.980	2.327	18.142	467.590	2.323	18.605	467.199	2.318	323.15
52	17.082	470.390	2.338	17.536	470.010	2.333	17.992	469.628	2.329	18.449	469.245	2.324	325.15
54	16.944	472.408	2.344	17.393	472.036	2.340	17.844	471.662	2.335	18.297	471.287	2.331	327.15
56	16.809	474.423	2.350	17.254	474.058	2.346	17.700	473.693	2.341	18.149	473.326	2.337	329.15
58	16.677	476.435	2.357	17.118	476.078	2.352	17.560	475.720	2.347	18.003	475.361	2.343	331.15
60	16.548	478.446	2.363	16.984	478.096	2.358	17.422	477.745	2.353	17.861	477.394	2.349	333.15
62	16.421	480.455	2.369	16.853	480.112	2.364	17.286	479.768	2.360	17.721	479.424	2.355	335.15
64	16.297	482.462	2.375	16.725	482.126	2.370	17.154	481.789	2.366	17.585	481.451	2.361	337.15
66	16.175	484.469	2.381	16.599	484.139	2.376	17.024	483.809	2.372	17.451	483.478	2.367	339.15
68	16.055	486.474	2.386	16.475	486.151	2.382	16.897	485.827	2.377	17.319	485.502	2.373	341.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	8.2 bar			8.4 bar			8.6 bar			8.8 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
70	15.938	488.480	2.392	16.354	488.163	2.388	16.772	487.845	2.383	17.190	487.526	2.379	343.15
72	15.823	490.485	2.398	16.235	490.174	2.394	16.649	489.862	2.389	17.064	489.549	2.385	345.15
74	15.710	492.490	2.404	16.118	492.185	2.399	16.528	491.879	2.395	16.940	491.572	2.391	347.15
76	15.598	494.496	2.410	16.004	494.196	2.405	16.410	493.896	2.401	16.818	493.594	2.397	349.15
78	15.489	496.503	2.415	15.891	496.208	2.411	16.294	495.913	2.407	16.698	495.617	2.402	351.15
80	15.382	498.510	2.421	15.780	498.221	2.417	16.180	497.931	2.412	16.581	497.640	2.408	353.15
82	15.276	500.519	2.427	15.671	500.234	2.422	16.068	499.950	2.418	16.465	499.664	2.414	355.15
84	15.172	502.529	2.432	15.564	502.249	2.428	15.957	501.969	2.424	16.352	501.689	2.419	357.15
86	15.070	504.540	2.438	15.459	504.266	2.434	15.849	503.991	2.429	16.240	503.715	2.425	359.15
88	14.970	506.554	2.444	15.355	506.284	2.439	15.742	506.013	2.435	16.130	505.742	2.431	361.15
90	14.871	508.570	2.449	15.254	508.304	2.445	15.637	508.038	2.441	16.022	507.771	2.436	363.15
92	14.774	510.587	2.455	15.153	510.326	2.450	15.534	510.064	2.446	15.916	509.802	2.442	365.15
94	14.678	512.608	2.460	15.055	512.351	2.456	15.433	512.093	2.452	15.811	511.835	2.447	367.15
96	14.583	514.631	2.466	14.958	514.377	2.461	15.333	514.124	2.457	15.709	513.870	2.453	369.15
98	14.491	516.656	2.471	14.862	516.407	2.467	15.234	516.158	2.463	15.607	515.908	2.458	371.15
100	14.399	518.685	2.477	14.768	518.440	2.472	15.137	518.194	2.468	15.508	517.948	2.464	373.15
102	14.309	520.717	2.482	14.675	520.475	2.478	15.042	520.233	2.474	15.409	519.991	2.469	375.15
104	14.220	522.752	2.488	14.583	522.514	2.483	14.948	522.276	2.479	15.313	522.037	2.475	377.15
106	14.133	524.790	2.493	14.493	524.556	2.489	14.855	524.321	2.484	15.217	524.086	2.480	379.15
108	14.046	526.833	2.498	14.405	526.602	2.494	14.764	526.371	2.490	15.123	526.139	2.486	381.15
110	13.961	528.879	2.504	14.317	528.651	2.499	14.673	528.423	2.495	15.031	528.195	2.491	383.15
112	13.878	530.929	2.509	14.231	530.704	2.505	14.585	530.480	2.501	14.939	530.255	2.496	385.15
114	13.795	532.983	2.514	14.146	532.761	2.510	14.497	532.540	2.506	14.849	532.318	2.502	387.15
116	13.713	535.041	2.520	14.062	534.823	2.515	14.411	534.604	2.511	14.761	534.386	2.507	389.15
118	13.633	537.103	2.525	13.979	536.888	2.521	14.326	536.673	2.516	14.673	536.457	2.512	391.15
120	13.553	539.170	2.530	13.897	538.958	2.526	14.242	538.745	2.522	14.587	538.533	2.518	393.15
122	13.475	541.241	2.535	13.817	541.032	2.531	14.159	540.823	2.527	14.502	540.613	2.523	395.15
124	13.398	543.318	2.541	13.737	543.111	2.536	14.077	542.904	2.532	14.418	542.697	2.528	397.15
126	13.321	545.399	2.546	13.659	545.195	2.542	13.996	544.991	2.538	14.335	544.787	2.533	399.15
128	13.246	547.485	2.551	13.581	547.283	2.547	13.917	547.082	2.543	14.253	546.880	2.539	401.15
130	13.172	549.575	2.556	13.505	549.377	2.552	13.838	549.178	2.548	14.172	548.979	2.544	403.15
132	13.098	551.672	2.561	13.429	551.475	2.557	13.761	551.279	2.553	14.093	551.083	2.549	405.15
134	13.026	553.773	2.567	13.355	553.579	2.562	13.684	553.385	2.558	14.014	553.192	2.554	407.15
136	12.954	555.880	2.572	13.281	555.688	2.568	13.608	555.497	2.564	13.936	555.305	2.560	409.15
138	12.884	557.992	2.577	13.208	557.803	2.573	13.534	557.614	2.569	13.859	557.425	2.565	411.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	9.0 bar			9.2 bar			9.4 bar			9.6 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
4	24.350	416.610	2.146	25.021	415.851	2.140							277.15
6	24.021	419.004	2.154	24.676	418.272	2.149	25.340	417.534	2.143	26.011	416.789	2.138	279.15
8	23.705	421.366	2.163	24.347	420.661	2.157	24.995	419.949	2.152	25.651	419.230	2.146	281.15
10	23.402	423.700	2.171	24.031	423.019	2.165	24.666	422.331	2.160	25.308	421.638	2.155	283.15
12	23.112	426.008	2.179	23.728	425.349	2.174	24.350	424.685	2.168	24.978	424.015	2.163	285.15
14	22.832	428.292	2.187	23.436	427.654	2.182	24.046	427.011	2.177	24.662	426.363	2.171	287.15
16	22.563	430.553	2.195	23.156	429.935	2.190	23.755	429.313	2.185	24.359	428.686	2.179	289.15
18	22.303	432.793	2.203	22.886	432.194	2.197	23.474	431.591	2.192	24.067	430.984	2.187	291.15
20	22.052	435.015	2.210	22.625	434.434	2.205	23.203	433.849	2.200	23.786	433.260	2.195	293.15
22	21.810	437.218	2.218	22.373	436.654	2.213	22.941	436.087	2.208	23.514	435.516	2.203	295.15
24	21.575	439.406	2.225	22.130	438.858	2.220	22.689	438.307	2.215	23.252	437.752	2.210	297.15
26	21.348	441.578	2.232	21.894	441.045	2.227	22.444	440.510	2.223	22.999	439.971	2.218	299.15
28	21.128	443.736	2.239	21.666	443.218	2.235	22.208	442.697	2.230	22.753	442.174	2.225	301.15
30	20.914	445.881	2.247	21.444	445.377	2.242	21.978	444.871	2.237	22.516	444.361	2.232	303.15
32	20.706	448.014	2.254	21.229	447.524	2.249	21.756	447.030	2.244	22.285	446.535	2.240	305.15
34	20.505	450.136	2.261	21.021	449.658	2.256	21.539	449.178	2.251	22.062	448.695	2.247	307.15
36	20.309	452.248	2.267	20.818	451.782	2.263	21.329	451.314	2.258	21.844	450.844	2.254	309.15
38	20.118	454.351	2.274	20.620	453.896	2.270	21.125	453.440	2.265	21.633	452.981	2.261	311.15
40	19.932	456.444	2.281	20.428	456.001	2.276	20.927	455.556	2.272	21.428	455.109	2.267	313.15
42	19.751	458.530	2.287	20.241	458.097	2.283	20.733	457.663	2.278	21.228	457.227	2.274	315.15
44	19.574	460.608	2.294	20.058	460.186	2.290	20.545	459.762	2.285	21.033	459.336	2.281	317.15
46	19.402	462.680	2.301	19.880	462.268	2.296	20.361	461.853	2.292	20.844	461.438	2.287	319.15
48	19.234	464.746	2.307	19.707	464.343	2.303	20.182	463.938	2.298	20.659	463.532	2.294	321.15
50	19.070	466.806	2.313	19.537	466.412	2.309	20.007	466.016	2.305	20.478	465.619	2.300	323.15
52	18.909	468.861	2.320	19.371	468.475	2.315	19.836	468.089	2.311	20.302	467.701	2.307	325.15
54	18.753	470.911	2.326	19.210	470.534	2.322	19.669	470.156	2.317	20.130	469.777	2.313	327.15
56	18.599	472.958	2.332	19.051	472.589	2.328	19.506	472.219	2.324	19.962	471.848	2.319	329.15
58	18.449	475.001	2.338	18.897	474.640	2.334	19.346	474.277	2.330	19.797	473.914	2.326	331.15
60	18.302	477.041	2.345	18.745	476.687	2.340	19.190	476.332	2.336	19.636	475.976	2.332	333.15
62	18.158	479.078	2.351	18.597	478.731	2.346	19.037	478.384	2.342	19.479	478.035	2.338	335.15
64	18.017	481.113	2.357	18.451	480.773	2.353	18.887	480.433	2.348	19.325	480.091	2.344	337.15
66	17.879	483.146	2.363	18.309	482.813	2.359	18.741	482.479	2.354	19.174	482.144	2.350	339.15
68	17.744	485.177	2.369	18.170	484.851	2.365	18.597	484.523	2.360	19.026	484.195	2.356	341.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	9.0 bar			9.2 bar			9.4 bar			9.6 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
70	17.611	487.207	2.375	18.033	486.887	2.370	18.456	486.566	2.366	18.881	486.244	2.362	343.15
72	17.481	489.236	2.381	17.899	488.922	2.376	18.318	488.607	2.372	18.739	488.292	2.368	345.15
74	17.353	491.264	2.386	17.767	490.956	2.382	18.183	490.647	2.378	18.600	490.338	2.374	347.15
76	17.227	493.293	2.392	17.638	492.990	2.388	18.050	492.687	2.384	18.463	492.383	2.380	349.15
78	17.104	495.321	2.398	17.511	495.024	2.394	17.919	494.726	2.390	18.329	494.428	2.386	351.15
80	16.983	497.349	2.404	17.386	497.058	2.400	17.791	496.765	2.396	18.197	496.472	2.392	353.15
82	16.864	499.378	2.410	17.264	499.092	2.405	17.665	498.804	2.401	18.067	498.517	2.397	355.15
84	16.747	501.408	2.415	17.144	501.126	2.411	17.541	500.844	2.407	17.940	500.562	2.403	357.15
86	16.632	503.439	2.421	17.026	503.162	2.417	17.420	502.885	2.413	17.816	502.607	2.409	359.15
88	16.519	505.471	2.427	16.909	505.199	2.422	17.301	504.926	2.419	17.693	504.653	2.415	361.15
90	16.408	507.504	2.432	16.795	507.237	2.428	17.183	506.969	2.424	17.572	506.700	2.420	363.15
92	16.299	509.539	2.438	16.683	509.276	2.434	17.068	509.013	2.430	17.454	508.749	2.426	365.15
94	16.191	511.577	2.443	16.572	511.318	2.439	16.954	511.058	2.435	17.337	510.799	2.431	367.15
96	16.086	513.616	2.449	16.463	513.361	2.445	16.842	513.106	2.441	17.222	512.851	2.437	369.15
98	15.981	515.657	2.454	16.356	515.407	2.450	16.732	515.156	2.446	17.109	514.904	2.443	371.15
100	15.879	517.702	2.460	16.251	517.455	2.456	16.624	517.208	2.452	16.998	516.960	2.448	373.15
102	15.778	519.748	2.465	16.147	519.506	2.461	16.517	519.262	2.457	16.889	519.019	2.454	375.15
104	15.678	521.798	2.471	16.045	521.559	2.467	16.412	521.319	2.463	16.781	521.079	2.459	377.15
106	15.580	523.851	2.476	15.944	523.615	2.472	16.309	523.379	2.468	16.675	523.143	2.465	379.15
108	15.484	525.907	2.482	15.845	525.675	2.478	16.207	525.442	2.474	16.570	525.210	2.470	381.15
110	15.389	527.967	2.487	15.747	527.738	2.483	16.107	527.509	2.479	16.467	527.279	2.475	383.15
112	15.295	530.030	2.492	15.651	529.804	2.488	16.008	529.578	2.485	16.366	529.352	2.481	385.15
114	15.202	532.096	2.498	15.556	531.874	2.494	15.911	531.651	2.490	16.266	531.429	2.486	387.15
116	15.111	534.167	2.503	15.463	533.948	2.499	15.815	533.728	2.495	16.167	533.509	2.492	389.15
118	15.021	536.241	2.508	15.370	536.025	2.504	15.720	535.809	2.501	16.070	535.592	2.497	391.15
120	14.933	538.320	2.514	15.279	538.107	2.510	15.626	537.894	2.506	15.974	537.680	2.502	393.15
122	14.845	540.403	2.519	15.189	540.193	2.515	15.534	539.982	2.511	15.880	539.772	2.508	395.15
124	14.759	542.490	2.524	15.101	542.283	2.520	15.443	542.075	2.517	15.787	541.867	2.513	397.15
126	14.674	544.582	2.530	15.014	544.377	2.526	15.354	544.173	2.522	15.695	543.968	2.518	399.15
128	14.590	546.679	2.535	14.927	546.477	2.531	15.265	546.275	2.527	15.604	546.072	2.523	401.15
130	14.507	548.780	2.540	14.842	548.581	2.536	15.178	548.381	2.532	15.515	548.181	2.529	403.15
132	14.425	550.886	2.545	14.758	550.689	2.541	15.092	550.492	2.538	15.426	550.295	2.534	405.15
134	14.344	552.997	2.550	14.675	552.803	2.547	15.007	552.609	2.543	15.339	552.414	2.539	407.15
136	14.265	555.114	2.556	14.593	554.922	2.552	14.923	554.730	2.548	15.253	554.537	2.544	409.15
138	14.186	557.235	2.561	14.513	557.046	2.557	14.840	556.856	2.553	15.168	556.666	2.549	411.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	9.8 bar			10.0 bar			10.5 bar			11.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
6	26.690	416.036	2.132										279.15
8	26.315	418.504	2.141	26.986	417.772	2.136							281.15
10	25.956	420.938	2.150	26.612	420.232	2.144	28.285	418.438	2.132	30.007	416.600	2.119	283.15
12	25.613	423.339	2.158	26.255	422.658	2.153	27.889	420.928	2.140	29.570	419.158	2.128	285.15
14	25.284	425.710	2.166	25.913	425.052	2.161	27.511	423.382	2.149	29.153	421.677	2.137	287.15
16	24.969	428.054	2.174	25.584	427.417	2.170	27.150	425.804	2.157	28.755	424.158	2.146	289.15
18	24.665	430.372	2.182	25.269	429.756	2.178	26.803	428.196	2.166	28.374	426.606	2.154	291.15
20	24.373	432.667	2.190	24.966	432.071	2.186	26.470	430.560	2.174	28.009	429.022	2.162	293.15
22	24.091	434.941	2.198	24.674	434.362	2.193	26.150	432.899	2.182	27.659	431.410	2.170	295.15
24	23.820	437.194	2.206	24.392	436.633	2.201	25.842	435.214	2.190	27.322	433.771	2.178	297.15
26	23.557	439.429	2.213	24.119	438.884	2.209	25.545	437.507	2.197	26.999	436.109	2.186	299.15
28	23.303	441.647	2.221	23.856	441.118	2.216	25.258	439.780	2.205	26.686	438.423	2.194	301.15
30	23.057	443.849	2.228	23.602	443.334	2.223	24.981	442.035	2.212	26.385	440.717	2.201	303.15
32	22.818	446.036	2.235	23.355	445.536	2.231	24.713	444.272	2.220	26.094	442.992	2.209	305.15
34	22.587	448.210	2.242	23.116	447.723	2.238	24.453	446.493	2.227	25.813	445.248	2.216	307.15
36	22.363	450.371	2.249	22.884	449.897	2.245	24.202	448.700	2.234	25.540	447.489	2.224	309.15
38	22.144	452.521	2.256	22.658	452.058	2.252	23.957	450.893	2.241	25.276	449.714	2.231	311.15
40	21.932	454.660	2.263	22.439	454.209	2.259	23.720	453.073	2.248	25.020	451.924	2.238	313.15
42	21.726	456.789	2.270	22.226	456.349	2.265	23.490	455.242	2.255	24.772	454.122	2.245	315.15
44	21.525	458.909	2.276	22.019	458.480	2.272	23.266	457.399	2.262	24.530	456.308	2.252	317.15
46	21.329	461.020	2.283	21.817	460.601	2.279	23.048	459.547	2.269	24.296	458.482	2.259	319.15
48	21.138	463.124	2.290	21.620	462.715	2.285	22.836	461.686	2.275	24.068	460.646	2.265	321.15
50	20.952	465.221	2.296	21.428	464.821	2.292	22.629	463.816	2.282	23.845	462.801	2.272	323.15
52	20.771	467.311	2.303	21.241	466.921	2.298	22.428	465.938	2.288	23.629	464.947	2.279	325.15
54	20.593	469.396	2.309	21.058	469.014	2.305	22.231	468.053	2.295	23.418	467.084	2.285	327.15
56	20.420	471.475	2.315	20.880	471.101	2.311	22.039	470.162	2.301	23.212	469.215	2.292	329.15
58	20.250	473.549	2.322	20.706	473.184	2.318	21.852	472.265	2.308	23.011	471.338	2.298	331.15
60	20.085	475.620	2.328	20.535	475.262	2.324	21.669	474.362	2.314	22.815	473.456	2.305	333.15
62	19.923	477.686	2.334	20.368	477.335	2.330	21.490	476.455	2.320	22.623	475.568	2.311	335.15
64	19.764	479.749	2.340	20.205	479.406	2.336	21.315	478.543	2.326	22.436	477.675	2.317	337.15
66	19.609	481.809	2.346	20.045	481.473	2.342	21.144	480.628	2.333	22.253	479.777	2.323	339.15
68	19.457	483.866	2.352	19.889	483.537	2.348	20.976	482.709	2.339	22.074	481.875	2.329	341.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	9.8 bar			10.0 bar			10.5 bar			11.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
70	19.307	485.922	2.358	19.735	485.599	2.354	20.812	484.787	2.345	21.899	483.970	2.336	343.15
72	19.161	487.975	2.364	19.585	487.658	2.360	20.651	486.862	2.351	21.727	486.062	2.342	345.15
74	19.018	490.028	2.370	19.438	489.717	2.366	20.494	488.936	2.357	21.559	488.150	2.348	347.15
76	18.877	492.079	2.376	19.293	491.773	2.372	20.339	491.007	2.363	21.394	490.237	2.354	349.15
78	18.739	494.129	2.382	19.152	493.829	2.378	20.188	493.078	2.369	21.233	492.322	2.360	351.15
80	18.604	496.179	2.388	19.012	495.885	2.384	20.039	495.147	2.375	21.074	494.404	2.366	353.15
82	18.471	498.228	2.394	18.876	497.940	2.390	19.894	497.215	2.380	20.919	496.486	2.371	355.15
84	18.341	500.278	2.399	18.742	499.994	2.395	19.750	499.283	2.386	20.767	498.567	2.377	357.15
86	18.212	502.329	2.405	18.610	502.050	2.401	19.610	501.350	2.392	20.617	500.647	2.383	359.15
88	18.086	504.379	2.411	18.481	504.105	2.407	19.472	503.418	2.398	20.470	502.727	2.389	361.15
90	17.962	506.431	2.416	18.354	506.162	2.413	19.336	505.486	2.403	20.326	504.807	2.395	363.15
92	17.841	508.484	2.422	18.229	508.219	2.418	19.203	507.555	2.409	20.184	506.888	2.400	365.15
94	17.721	510.539	2.428	18.106	510.278	2.424	19.072	509.625	2.415	20.045	508.968	2.406	367.15
96	17.603	512.595	2.433	17.985	512.338	2.429	18.943	511.696	2.420	19.909	511.050	2.412	369.15
98	17.487	514.652	2.439	17.866	514.400	2.435	18.817	513.768	2.426	19.774	513.133	2.417	371.15
100	17.373	516.712	2.444	17.749	516.464	2.441	18.692	515.842	2.432	19.642	515.217	2.423	373.15
102	17.261	518.775	2.450	17.633	518.530	2.446	18.570	517.918	2.437	19.512	517.303	2.428	375.15
104	17.150	520.839	2.455	17.520	520.599	2.452	18.449	519.995	2.443	19.384	519.390	2.434	377.15
106	17.041	522.906	2.461	17.408	522.669	2.457	18.330	522.076	2.448	19.258	521.479	2.440	379.15
108	16.934	524.977	2.466	17.299	524.743	2.463	18.214	524.158	2.454	19.134	523.571	2.445	381.15
110	16.828	527.050	2.472	17.190	526.820	2.468	18.098	526.243	2.459	19.012	525.665	2.451	383.15
112	16.724	529.126	2.477	17.084	528.899	2.473	17.985	528.331	2.465	18.892	527.762	2.456	385.15
114	16.622	531.206	2.482	16.978	530.982	2.479	17.873	530.423	2.470	18.773	529.861	2.461	387.15
116	16.521	533.289	2.488	16.875	533.068	2.484	17.763	532.517	2.475	18.657	531.964	2.467	389.15
118	16.421	535.375	2.493	16.773	535.158	2.490	17.655	534.615	2.481	18.542	534.069	2.472	391.15
120	16.323	537.466	2.499	16.672	537.252	2.495	17.548	536.716	2.486	18.429	536.178	2.478	393.15
122	16.226	539.561	2.504	16.573	539.350	2.500	17.443	538.821	2.491	18.317	538.290	2.483	395.15
124	16.130	541.659	2.509	16.475	541.451	2.505	17.339	540.929	2.497	18.207	540.406	2.488	397.15
126	16.036	543.762	2.514	16.378	543.557	2.511	17.237	543.042	2.502	18.099	542.526	2.494	399.15
128	15.943	545.870	2.520	16.283	545.667	2.516	17.136	545.159	2.507	17.992	544.650	2.499	401.15
130	15.852	547.981	2.525	16.189	547.781	2.521	17.036	547.280	2.513	17.886	546.777	2.504	403.15
132	15.761	550.098	2.530	16.096	549.900	2.527	16.938	549.405	2.518	17.782	548.910	2.510	405.15
134	15.672	552.219	2.535	16.005	552.024	2.532	16.841	551.535	2.523	17.680	551.046	2.515	407.15
136	15.584	554.345	2.541	15.915	554.152	2.537	16.745	553.670	2.528	17.579	553.187	2.520	409.15
138	15.496	556.476	2.546	15.826	556.286	2.542	16.650	555.810	2.534	17.479	555.332	2.525	411.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	11.5 bar			12.0 bar			12.5 bar			13.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
12	31.299	417.346	2.116										285.15
14	30.839	419.932	2.125	32.575	418.146	2.113							287.15
16	30.401	422.477	2.134	32.093	420.758	2.122	33.833	418.999	2.111	35.626	417.197	2.100	289.15
18	29.983	424.983	2.143	31.635	423.327	2.131	33.330	421.634	2.120	35.074	419.903	2.109	291.15
20	29.584	427.455	2.151	31.198	425.857	2.140	32.852	424.226	2.129	34.551	422.560	2.118	293.15
22	29.201	429.895	2.159	30.780	428.351	2.148	32.396	426.777	2.138	34.053	425.172	2.127	295.15
24	28.834	432.305	2.167	30.380	430.812	2.157	31.960	429.292	2.146	33.579	427.744	2.136	297.15
26	28.482	434.688	2.175	29.996	433.243	2.165	31.544	431.773	2.155	33.126	430.277	2.144	299.15
28	28.142	437.045	2.183	29.628	435.646	2.173	31.144	434.224	2.163	32.692	432.777	2.153	301.15
30	27.816	439.380	2.191	29.273	438.023	2.181	30.760	436.645	2.171	32.277	435.245	2.161	303.15
32	27.500	441.693	2.199	28.932	440.377	2.188	30.391	439.041	2.179	31.878	437.684	2.169	305.15
34	27.196	443.987	2.206	28.603	442.708	2.196	30.035	441.412	2.186	31.494	440.097	2.177	307.15
36	26.901	446.262	2.213	28.285	445.019	2.204	29.693	443.760	2.194	31.125	442.484	2.184	309.15
38	26.616	448.520	2.221	27.978	447.312	2.211	29.362	446.088	2.201	30.769	444.849	2.192	311.15
40	26.340	450.762	2.228	27.680	449.587	2.218	29.042	448.397	2.209	30.426	447.192	2.200	313.15
42	26.072	452.990	2.235	27.392	451.846	2.225	28.733	450.688	2.216	30.094	449.517	2.207	315.15
44	25.813	455.205	2.242	27.113	454.090	2.233	28.433	452.962	2.223	29.772	451.822	2.214	317.15
46	25.560	457.407	2.249	26.842	456.320	2.240	28.143	455.222	2.230	29.462	454.112	2.221	319.15
48	25.315	459.597	2.256	26.579	458.537	2.246	27.861	457.467	2.237	29.160	456.385	2.229	321.15
50	25.077	461.777	2.263	26.324	460.743	2.253	27.587	459.699	2.244	28.868	458.644	2.236	323.15
52	24.844	463.947	2.269	26.075	462.937	2.260	27.322	461.919	2.251	28.584	460.890	2.243	325.15
54	24.618	466.107	2.276	25.833	465.122	2.267	27.063	464.127	2.258	28.308	463.124	2.249	327.15
56	24.398	468.260	2.282	25.598	467.297	2.273	26.812	466.326	2.265	28.040	465.346	2.256	329.15
58	24.183	470.405	2.289	25.368	469.464	2.280	26.567	468.515	2.271	27.779	467.558	2.263	331.15
60	23.973	472.543	2.295	25.144	471.622	2.286	26.328	470.695	2.278	27.525	469.760	2.269	333.15
62	23.768	474.674	2.302	24.926	473.774	2.293	26.096	472.867	2.284	27.278	471.953	2.276	335.15
64	23.569	476.800	2.308	24.713	475.919	2.299	25.869	475.032	2.291	27.037	474.137	2.283	337.15
66	23.373	478.921	2.314	24.504	478.058	2.306	25.647	477.190	2.297	26.802	476.315	2.289	339.15
68	23.182	481.036	2.321	24.301	480.192	2.312	25.431	479.341	2.304	26.572	478.485	2.295	341.15
70	22.995	483.148	2.327	24.102	482.321	2.318	25.219	481.488	2.310	26.348	480.649	2.302	343.15
72	22.812	485.256	2.333	23.907	484.445	2.324	25.013	483.629	2.316	26.129	482.808	2.308	345.15
74	22.633	487.360	2.339	23.717	486.566	2.330	24.811	485.766	2.322	25.914	484.961	2.314	347.15
76	22.458	489.462	2.345	23.531	488.683	2.337	24.613	487.899	2.328	25.705	487.110	2.320	349.15
78	22.286	491.561	2.351	23.348	490.797	2.343	24.420	490.028	2.334	25.500	489.255	2.326	351.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	11.5 bar			12.0 bar			12.5 bar			13.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
80	22.118	493.658	2.357	23.170	492.908	2.349	24.230	492.154	2.340	25.300	491.396	2.333	353.15
82	21.953	495.754	2.363	22.994	495.018	2.355	24.045	494.278	2.346	25.103	493.533	2.339	355.15
84	21.791	497.848	2.369	22.823	497.125	2.360	23.863	496.399	2.352	24.911	495.668	2.345	357.15
86	21.632	499.941	2.375	22.654	499.231	2.366	23.684	498.518	2.358	24.722	497.801	2.351	359.15
88	21.476	502.033	2.380	22.489	501.336	2.372	23.509	500.636	2.364	24.538	499.932	2.356	361.15
90	21.323	504.125	2.386	22.327	503.440	2.378	23.338	502.752	2.370	24.356	502.061	2.362	363.15
92	21.173	506.217	2.392	22.168	505.544	2.384	23.170	504.868	2.376	24.179	504.188	2.368	365.15
94	21.025	508.309	2.398	22.011	507.648	2.389	23.004	506.983	2.382	24.004	506.315	2.374	367.15
96	20.880	510.402	2.403	21.858	509.751	2.395	22.842	509.098	2.387	23.833	508.441	2.380	369.15
98	20.737	512.495	2.409	21.707	511.855	2.401	22.683	511.213	2.393	23.665	510.567	2.386	371.15
100	20.597	514.590	2.415	21.559	513.960	2.407	22.526	513.328	2.399	23.500	512.693	2.391	373.15
102	20.459	516.685	2.420	21.413	516.066	2.412	22.372	515.444	2.404	23.338	514.819	2.397	375.15
104	20.324	518.782	2.426	21.270	518.173	2.418	22.221	517.561	2.410	23.178	516.946	2.403	377.15
106	20.190	520.881	2.431	21.129	520.281	2.423	22.072	519.679	2.416	23.022	519.074	2.408	379.15
108	20.059	522.982	2.437	20.990	522.391	2.429	21.926	521.798	2.421	22.868	521.203	2.414	381.15
110	19.930	525.085	2.442	20.854	524.503	2.434	21.782	523.919	2.427	22.716	523.333	2.419	383.15
112	19.803	527.190	2.448	20.719	526.617	2.440	21.641	526.041	2.432	22.567	525.464	2.425	385.15
114	19.678	529.298	2.453	20.587	528.733	2.445	21.501	528.166	2.438	22.421	527.598	2.430	387.15
116	19.554	531.409	2.459	20.457	530.852	2.451	21.364	530.293	2.443	22.277	529.733	2.436	389.15
118	19.433	533.522	2.464	20.329	532.973	2.456	21.229	532.423	2.449	22.135	531.871	2.441	391.15
120	19.313	535.639	2.470	20.203	535.098	2.462	21.096	534.555	2.454	21.995	534.011	2.447	393.15
122	19.196	537.758	2.475	20.078	537.225	2.467	20.966	536.690	2.460	21.857	536.154	2.452	395.15
124	19.079	539.882	2.480	19.956	539.356	2.472	20.837	538.828	2.465	21.722	538.299	2.458	397.15
126	18.965	542.009	2.486	19.835	541.490	2.478	20.709	540.970	2.470	21.588	540.448	2.463	399.15
128	18.852	544.139	2.491	19.716	543.627	2.483	20.584	543.114	2.476	21.456	542.600	2.469	401.15
130	18.741	546.274	2.496	19.599	545.769	2.489	20.461	545.263	2.481	21.327	544.755	2.474	403.15
132	18.631	548.412	2.502	19.483	547.914	2.494	20.339	547.414	2.486	21.199	546.914	2.479	405.15
134	18.523	550.555	2.507	19.369	550.063	2.499	20.219	549.570	2.492	21.073	549.076	2.485	407.15
136	18.416	552.702	2.512	19.256	552.217	2.504	20.101	551.730	2.497	20.949	551.242	2.490	409.15
138	18.310	554.854	2.517	19.145	554.375	2.510	19.984	553.894	2.502	20.826	553.413	2.495	411.15
140	18.206	557.010	2.523	19.036	556.537	2.515	19.869	556.062	2.508	20.705	555.587	2.500	413.15
142	18.104	559.171	2.528	18.928	558.704	2.520	19.755	558.235	2.513	20.586	557.766	2.506	415.15
144	18.002	561.337	2.533	18.821	560.875	2.525	19.643	560.413	2.518	20.469	559.949	2.511	417.15
146	17.902	563.508	2.538	18.716	563.052	2.531	19.533	562.595	2.523	20.353	562.137	2.516	419.15
148	17.804	565.684	2.543	18.612	565.233	2.536	19.424	564.782	2.528	20.238	564.329	2.521	421.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	13.5 bar			14.0 bar			14.5 bar			15.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
18	36.869	418.130	2.098										291.15
20	36.296	420.856	2.108	38.092	419.113	2.097	39.943	417.326	2.087				293.15
22	35.753	423.533	2.117	37.499	421.858	2.106	39.295	420.144	2.096	41.145	418.388	2.086	295.15
24	35.237	426.164	2.126	36.937	424.552	2.116	38.683	422.906	2.106	40.478	421.222	2.096	297.15
26	34.745	428.754	2.134	36.403	427.201	2.124	38.103	425.616	2.115	39.847	423.998	2.105	299.15
28	34.275	431.305	2.143	35.894	429.807	2.133	37.551	428.280	2.124	39.249	426.723	2.114	301.15
30	33.825	433.822	2.151	35.408	432.374	2.142	37.026	430.901	2.132	38.681	429.401	2.123	303.15
32	33.395	436.307	2.159	34.943	434.907	2.150	36.524	433.484	2.141	38.140	432.036	2.132	305.15
34	32.981	438.762	2.167	34.497	437.407	2.158	36.044	436.030	2.149	37.624	434.631	2.140	307.15
36	32.584	441.190	2.175	34.070	439.877	2.166	35.585	438.544	2.157	37.129	437.191	2.148	309.15
38	32.201	443.593	2.183	33.659	442.320	2.174	35.143	441.028	2.165	36.656	439.718	2.156	311.15
40	31.832	445.973	2.191	33.263	444.737	2.182	34.719	443.484	2.173	36.202	442.214	2.164	313.15
42	31.477	448.331	2.198	32.882	447.130	2.189	34.311	445.915	2.181	35.765	444.683	2.172	315.15
44	31.133	450.669	2.205	32.514	449.502	2.197	33.918	448.321	2.188	35.345	447.125	2.180	317.15
46	30.800	452.989	2.213	32.159	451.854	2.204	33.538	450.706	2.196	34.940	449.544	2.188	319.15
48	30.478	455.292	2.220	31.815	454.187	2.212	33.172	453.070	2.203	34.549	451.941	2.195	321.15
50	30.166	457.579	2.227	31.482	456.503	2.219	32.817	455.416	2.211	34.171	454.317	2.203	323.15
52	29.863	459.852	2.234	31.160	458.803	2.226	32.474	457.744	2.218	33.806	456.674	2.210	325.15
54	29.569	462.111	2.241	30.847	461.089	2.233	32.141	460.056	2.225	33.453	459.014	2.217	327.15
56	29.284	464.358	2.248	30.543	463.360	2.240	31.819	462.354	2.232	33.110	461.338	2.224	329.15
58	29.007	466.593	2.255	30.248	465.619	2.247	31.505	464.637	2.239	32.778	463.646	2.231	331.15
60	28.737	468.817	2.261	29.962	467.866	2.253	31.201	466.907	2.246	32.456	465.940	2.238	333.15
62	28.474	471.031	2.268	29.683	470.102	2.260	30.906	469.166	2.252	32.143	468.222	2.245	335.15
64	28.218	473.237	2.275	29.411	472.329	2.267	30.618	471.414	2.259	31.838	470.492	2.252	337.15
66	27.968	475.434	2.281	29.147	474.546	2.273	30.338	473.652	2.266	31.542	472.750	2.258	339.15
68	27.724	477.623	2.287	28.889	476.755	2.280	30.065	475.880	2.272	31.254	474.999	2.265	341.15
70	27.487	479.805	2.294	28.637	478.956	2.286	29.799	478.100	2.279	30.973	477.238	2.271	343.15
72	27.255	481.981	2.300	28.392	481.149	2.293	29.540	480.312	2.285	30.699	479.469	2.278	345.15
74	27.028	484.152	2.306	28.152	483.337	2.299	29.287	482.517	2.291	30.432	481.691	2.284	347.15
76	26.807	486.317	2.313	27.918	485.518	2.305	29.040	484.715	2.298	30.172	483.907	2.291	349.15
78	26.590	488.477	2.319	27.689	487.694	2.311	28.798	486.907	2.304	29.917	486.115	2.297	351.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	13.5 bar			14.0 bar			14.5 bar			15.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
80	26.378	490.633	2.325	27.465	489.866	2.317	28.562	489.094	2.310	29.669	488.318	2.303	353.15
82	26.170	492.785	2.331	27.247	492.033	2.324	28.332	491.276	2.316	29.426	490.516	2.309	355.15
84	25.967	494.934	2.337	27.032	494.196	2.330	28.106	493.454	2.323	29.188	492.708	2.316	357.15
86	25.768	497.080	2.343	26.823	496.356	2.336	27.885	495.628	2.329	28.956	494.896	2.322	359.15
88	25.573	499.224	2.349	26.617	498.513	2.342	27.669	497.799	2.335	28.729	497.081	2.328	361.15
90	25.382	501.366	2.355	26.416	500.668	2.348	27.457	499.966	2.341	28.506	499.261	2.334	363.15
92	25.195	503.506	2.361	26.219	502.820	2.354	27.250	502.131	2.347	28.288	501.439	2.340	365.15
94	25.011	505.644	2.367	26.025	504.971	2.359	27.046	504.294	2.352	28.075	503.614	2.346	367.15
96	24.831	507.782	2.372	25.835	507.120	2.365	26.847	506.455	2.358	27.865	505.787	2.352	369.15
98	24.654	509.919	2.378	25.649	509.268	2.371	26.651	508.615	2.364	27.660	507.959	2.357	371.15
100	24.480	512.056	2.384	25.466	511.416	2.377	26.459	510.774	2.370	27.459	510.128	2.363	373.15
102	24.309	514.193	2.390	25.287	513.563	2.383	26.271	512.931	2.376	27.261	512.297	2.369	375.15
104	24.142	516.329	2.395	25.111	515.710	2.388	26.086	515.089	2.381	27.067	514.465	2.375	377.15
106	23.977	518.467	2.401	24.938	517.858	2.394	25.904	517.246	2.387	26.877	516.633	2.381	379.15
108	23.815	520.605	2.407	24.768	520.006	2.400	25.726	519.404	2.393	26.690	518.800	2.386	381.15
110	23.656	522.745	2.412	24.600	522.154	2.405	25.551	521.562	2.399	26.506	520.968	2.392	383.15
112	23.499	524.885	2.418	24.436	524.304	2.411	25.378	523.721	2.404	26.326	523.136	2.398	385.15
114	23.345	527.027	2.423	24.274	526.455	2.416	25.209	525.881	2.410	26.149	525.305	2.403	387.15
116	23.194	529.171	2.429	24.115	528.607	2.422	25.042	528.042	2.415	25.974	527.475	2.409	389.15
118	23.044	531.317	2.434	23.959	530.762	2.427	24.878	530.205	2.421	25.803	529.646	2.414	391.15
120	22.898	533.465	2.440	23.805	532.918	2.433	24.717	532.369	2.426	25.634	531.818	2.420	393.15
122	22.753	535.616	2.445	23.654	535.076	2.438	24.559	534.535	2.432	25.468	533.993	2.425	395.15
124	22.611	537.769	2.451	23.504	537.237	2.444	24.402	536.704	2.437	25.305	536.169	2.431	397.15
126	22.471	539.925	2.456	23.358	539.401	2.449	24.249	538.875	2.443	25.144	538.348	2.436	399.15
128	22.333	542.084	2.462	23.213	541.567	2.455	24.097	541.048	2.448	24.986	540.528	2.442	401.15
130	22.197	544.246	2.467	23.070	543.736	2.460	23.948	543.225	2.454	24.830	542.712	2.447	403.15
132	22.063	546.412	2.472	22.930	545.908	2.466	23.801	545.404	2.459	24.677	544.898	2.453	405.15
134	21.930	548.581	2.478	22.792	548.084	2.471	23.657	547.586	2.464	24.526	547.087	2.458	407.15
136	21.800	550.753	2.483	22.655	550.263	2.476	23.514	549.772	2.470	24.377	549.280	2.463	409.15
138	21.672	552.930	2.488	22.521	552.446	2.482	23.374	551.961	2.475	24.230	551.476	2.469	411.15
140	21.545	555.111	2.494	22.388	554.633	2.487	23.235	554.154	2.480	24.085	553.675	2.474	413.15
142	21.420	557.295	2.499	22.258	556.824	2.492	23.099	556.351	2.486	23.943	555.878	2.479	415.15
144	21.297	559.484	2.504	22.129	559.019	2.497	22.964	558.552	2.491	23.802	558.085	2.485	417.15
146	21.176	561.678	2.509	22.002	561.218	2.503	22.831	560.757	2.496	23.664	560.295	2.490	419.15
148	21.056	563.876	2.515	21.876	563.421	2.508	22.700	562.966	2.502	23.527	562.510	2.495	421.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	16.0 bar			17.0 bar			18.0 bar			19.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
24	44.228	417.732	2.076										297.15
26	43.482	420.653	2.086	47.337	417.144	2.067							299.15
28	42.779	423.511	2.095	46.509	420.153	2.077	50.469	416.627	2.058				301.15
30	42.115	426.311	2.105	45.730	423.092	2.086	49.553	419.723	2.068	53.619	416.182	2.050	303.15
32	41.485	429.060	2.114	44.995	425.967	2.096	48.695	422.741	2.078	52.611	419.364	2.061	305.15
34	40.886	431.761	2.122	44.301	428.785	2.105	47.888	425.690	2.088	51.670	422.461	2.071	307.15
36	40.315	434.419	2.131	43.642	431.551	2.114	47.126	428.576	2.097	50.788	425.482	2.081	309.15
38	39.771	437.037	2.139	43.016	434.270	2.123	46.405	431.406	2.106	49.957	428.435	2.090	311.15
40	39.250	439.620	2.148	42.419	436.946	2.131	45.721	434.184	2.115	49.172	431.327	2.099	313.15
42	38.751	442.169	2.156	41.849	439.582	2.140	45.070	436.916	2.124	48.428	434.163	2.108	315.15
44	38.272	444.687	2.164	41.303	442.183	2.148	44.450	439.606	2.132	47.722	436.949	2.117	317.15
46	37.811	447.178	2.172	40.781	444.750	2.156	43.857	442.256	2.141	47.050	439.690	2.126	319.15
48	37.368	449.642	2.179	40.279	447.287	2.164	43.290	444.871	2.149	46.409	442.389	2.134	321.15
50	36.941	452.082	2.187	39.797	449.795	2.172	42.746	447.452	2.157	45.796	445.049	2.143	323.15
52	36.529	454.500	2.194	39.332	452.278	2.179	42.224	450.004	2.165	45.210	447.675	2.151	325.15
54	36.130	456.898	2.202	38.885	454.736	2.187	41.721	452.528	2.173	44.647	450.268	2.159	327.15
56	35.745	459.276	2.209	38.453	457.173	2.194	41.238	455.025	2.180	44.106	452.831	2.166	329.15
58	35.372	461.636	2.216	38.035	459.588	2.202	40.771	457.499	2.188	43.585	455.367	2.174	331.15
60	35.011	463.981	2.223	37.632	461.985	2.209	40.321	459.951	2.195	43.084	457.877	2.182	333.15
62	34.661	466.310	2.230	37.241	464.364	2.216	39.886	462.383	2.202	42.601	460.364	2.189	335.15
64	34.321	468.625	2.237	36.862	466.727	2.223	39.465	464.795	2.210	42.134	462.829	2.196	337.15
66	33.990	470.927	2.244	36.495	469.074	2.230	39.058	467.190	2.217	41.683	465.274	2.204	339.15
68	33.669	473.217	2.251	36.138	471.407	2.237	38.662	469.569	2.224	41.246	467.701	2.211	341.15
70	33.357	475.496	2.257	35.791	473.728	2.244	38.279	471.933	2.231	40.823	470.110	2.218	343.15
72	33.053	477.765	2.264	35.454	476.036	2.250	37.907	474.283	2.237	40.413	472.503	2.225	345.15
74	32.756	480.024	2.270	35.127	478.334	2.257	37.545	476.620	2.244	40.015	474.881	2.232	347.15
76	32.468	482.274	2.277	34.808	480.621	2.264	37.194	478.945	2.251	39.628	477.246	2.238	349.15
78	32.186	484.517	2.283	34.497	482.898	2.270	36.852	481.259	2.257	39.253	479.597	2.245	351.15
80	31.911	486.752	2.290	34.194	485.167	2.276	36.519	483.563	2.264	38.888	481.938	2.252	353.15
82	31.643	488.981	2.296	33.898	487.429	2.283	36.194	485.857	2.270	38.532	484.267	2.258	355.15
84	31.380	491.204	2.302	33.610	489.682	2.289	35.878	488.143	2.277	38.186	486.586	2.265	357.15
86	31.124	493.421	2.308	33.328	491.929	2.295	35.569	490.421	2.283	37.848	488.896	2.271	359.15
88	30.874	495.633	2.314	33.053	494.171	2.302	35.268	492.692	2.290	37.519	491.198	2.278	361.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	16.0 bar			17.0 bar			18.0 bar			19.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
90	30.629	497.841	2.321	32.784	496.406	2.308	34.974	494.957	2.296	37.198	493.492	2.284	363.15
92	30.389	500.045	2.327	32.521	498.637	2.314	34.686	497.215	2.302	36.885	495.779	2.290	365.15
94	30.154	502.245	2.333	32.264	500.863	2.320	34.405	499.468	2.308	36.579	498.059	2.297	367.15
96	29.924	504.443	2.339	32.012	503.086	2.326	34.130	501.716	2.314	36.280	500.334	2.303	369.15
98	29.699	506.637	2.344	31.765	505.305	2.332	33.862	503.960	2.320	35.988	502.603	2.309	371.15
100	29.478	508.830	2.350	31.524	507.521	2.338	33.598	506.200	2.326	35.702	504.868	2.315	373.15
102	29.261	511.021	2.356	31.287	509.734	2.344	33.341	508.436	2.332	35.422	507.128	2.321	375.15
104	29.049	513.210	2.362	31.055	511.945	2.350	33.088	510.670	2.338	35.148	509.384	2.327	377.15
106	28.840	515.398	2.368	30.828	514.155	2.356	32.841	512.901	2.344	34.880	511.638	2.333	379.15
108	28.636	517.586	2.374	30.605	516.362	2.362	32.599	515.130	2.350	34.617	513.888	2.339	381.15
110	28.435	519.773	2.379	30.386	518.569	2.367	32.361	517.357	2.356	34.360	516.136	2.345	383.15
112	28.237	521.960	2.385	30.171	520.776	2.373	32.128	519.583	2.362	34.108	518.382	2.351	385.15
114	28.044	524.147	2.391	29.960	522.981	2.379	31.899	521.808	2.367	33.860	520.626	2.356	387.15
116	27.853	526.335	2.396	29.753	525.187	2.384	31.674	524.032	2.373	33.617	522.869	2.362	389.15
118	27.666	528.523	2.402	29.550	527.393	2.390	31.454	526.256	2.379	33.379	525.111	2.368	391.15
120	27.482	530.712	2.407	29.350	529.599	2.396	31.237	528.479	2.384	33.145	527.353	2.374	393.15
122	27.301	532.903	2.413	29.153	531.806	2.401	31.024	530.703	2.390	32.915	529.594	2.379	395.15
124	27.123	535.095	2.419	28.960	534.015	2.407	30.815	532.928	2.396	32.690	531.835	2.385	397.15
126	26.948	537.289	2.424	28.770	536.224	2.412	30.610	535.153	2.401	32.468	534.077	2.391	399.15
128	26.776	539.485	2.430	28.583	538.435	2.418	30.408	537.380	2.407	32.250	536.319	2.396	401.15
130	26.606	541.683	2.435	28.399	540.648	2.423	30.209	539.608	2.412	32.036	538.562	2.402	403.15
132	26.439	543.883	2.440	28.218	542.863	2.429	30.014	541.837	2.418	31.826	540.806	2.407	405.15
134	26.275	546.086	2.446	28.040	545.080	2.434	29.821	544.068	2.423	31.619	543.052	2.413	407.15
136	26.113	548.292	2.451	27.865	547.299	2.440	29.632	546.301	2.429	31.415	545.299	2.418	409.15
138	25.954	550.500	2.457	27.692	549.521	2.445	29.446	548.537	2.434	31.215	547.548	2.424	411.15
140	25.797	552.712	2.462	27.522	551.746	2.451	29.262	550.775	2.440	31.017	549.800	2.429	413.15
142	25.642	554.928	2.467	27.355	553.974	2.456	29.082	553.015	2.445	30.823	552.053	2.435	415.15
144	25.489	557.147	2.473	27.190	556.205	2.461	28.904	555.259	2.451	30.632	554.309	2.440	417.15
146	25.339	559.369	2.478	27.027	558.439	2.467	28.729	557.506	2.456	30.444	556.568	2.446	419.15
148	25.191	561.596	2.483	26.867	560.677	2.472	28.556	559.755	2.461	30.258	558.830	2.451	421.15
150	25.044	563.826	2.489	26.709	562.919	2.477	28.386	562.009	2.467	30.076	561.095	2.456	423.15
152	24.900	566.061	2.494	26.553	565.165	2.483	28.218	564.266	2.472	29.896	563.363	2.462	425.15
154	24.758	568.299	2.499	26.399	567.414	2.488	28.053	566.526	2.477	29.718	565.635	2.467	427.15
156	24.618	570.543	2.504	26.248	569.668	2.493	27.890	568.791	2.483	29.544	567.910	2.472	429.15
158	24.479	572.791	2.510	26.098	571.927	2.498	27.729	571.060	2.488	29.371	570.190	2.478	431.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	20.0 bar			22.0 bar			24.0 bar			26.0 bar			Temp (K)
	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
32	56.780	415.810	2.043										305.15
34	55.678	419.077	2.054										307.15
36	54.652	422.251	2.064	63.120	415.296	2.031							309.15
38	53.691	425.343	2.074	61.819	418.727	2.042							311.15
40	52.789	428.361	2.084	60.613	422.049	2.052	69.441	415.096	2.020				313.15
42	51.938	431.313	2.093	59.491	425.275	2.063	67.932	418.680	2.032	77.583	411.332	2.000	315.15
44	51.134	434.206	2.102	58.442	428.418	2.072	66.542	422.140	2.043	75.694	415.220	2.012	317.15
46	50.372	437.045	2.111	57.457	431.485	2.082	65.254	425.492	2.053	73.975	418.945	2.024	319.15
48	49.647	439.835	2.120	56.528	434.484	2.091	64.054	428.749	2.063	72.399	422.530	2.035	321.15
50	48.957	442.581	2.128	55.650	437.423	2.101	62.931	431.922	2.073	70.944	425.996	2.045	323.15
52	48.298	445.286	2.137	54.818	440.307	2.109	61.876	435.020	2.083	69.592	429.357	2.056	325.15
54	47.667	447.953	2.145	54.028	443.142	2.118	60.881	438.051	2.092	68.332	432.625	2.066	327.15
56	47.063	450.586	2.153	53.275	445.930	2.127	59.940	441.021	2.101	67.150	435.812	2.076	329.15
58	46.483	453.188	2.161	52.556	448.677	2.135	59.048	443.936	2.110	66.039	438.925	2.085	331.15
60	45.926	455.760	2.169	51.868	451.386	2.143	58.200	446.801	2.118	64.990	441.973	2.094	333.15
62	45.390	458.306	2.176	51.210	454.060	2.151	57.393	449.621	2.127	63.998	444.961	2.103	335.15
64	44.873	460.826	2.184	50.577	456.701	2.159	56.621	452.399	2.135	63.056	447.895	2.112	337.15
66	44.374	463.324	2.191	49.970	459.313	2.167	55.883	455.139	2.143	62.160	450.781	2.120	339.15
68	43.892	465.800	2.198	49.385	461.897	2.174	55.176	457.844	2.151	61.306	453.621	2.129	341.15
70	43.426	468.257	2.206	48.822	464.456	2.182	54.498	460.516	2.159	60.490	456.421	2.137	343.15
72	42.975	470.695	2.213	48.278	466.991	2.189	53.846	463.159	2.167	59.708	459.183	2.145	345.15
74	42.538	473.116	2.220	47.753	469.505	2.196	53.218	465.774	2.174	58.960	461.911	2.153	347.15
76	42.114	475.522	2.227	47.246	471.998	2.204	52.613	468.363	2.182	58.241	464.606	2.161	349.15
78	41.702	477.913	2.233	46.754	474.473	2.211	52.029	470.930	2.189	57.549	467.273	2.168	351.15
80	41.302	480.291	2.240	46.278	476.931	2.218	51.465	473.474	2.196	56.883	469.912	2.176	353.15
82	40.914	482.656	2.247	45.817	479.372	2.225	50.919	475.998	2.203	56.241	472.526	2.183	355.15
84	40.536	485.010	2.253	45.369	481.799	2.231	50.391	478.504	2.210	55.622	475.117	2.190	357.15
86	40.168	487.353	2.260	44.933	484.212	2.238	49.880	480.992	2.217	55.023	477.687	2.198	359.15
88	39.809	489.687	2.266	44.510	486.612	2.245	49.384	483.464	2.224	54.444	480.236	2.205	361.15
90	39.460	492.011	2.273	44.099	489.001	2.251	48.902	485.921	2.231	53.883	482.767	2.212	363.15
92	39.119	494.328	2.279	43.698	491.379	2.258	48.434	488.365	2.238	53.339	485.281	2.218	365.15
94	38.787	496.636	2.285	43.308	493.747	2.264	47.980	490.796	2.244	52.812	487.779	2.225	367.15
96	38.462	498.938	2.292	42.928	496.105	2.271	47.537	493.215	2.251	52.300	490.263	2.232	369.15
98	38.145	501.234	2.298	42.557	498.456	2.277	47.107	495.623	2.257	51.803	492.733	2.239	371.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	20.0 bar			22.0 bar			24.0 bar			26.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
100	37.835	503.523	2.304	42.196	500.798	2.283	46.687	498.021	2.264	51.319	495.190	2.245	373.15
102	37.532	505.808	2.310	41.842	503.134	2.290	46.279	500.411	2.270	50.849	497.636	2.252	375.15
104	37.236	508.088	2.316	41.498	505.463	2.296	45.880	502.791	2.277	50.391	500.072	2.258	377.15
106	36.946	510.364	2.322	41.160	507.786	2.302	45.491	505.164	2.283	49.945	502.497	2.265	379.15
108	36.662	512.636	2.328	40.831	510.104	2.308	45.111	507.530	2.289	49.510	504.913	2.271	381.15
110	36.384	514.906	2.334	40.509	512.417	2.314	44.740	509.889	2.295	49.085	507.321	2.277	383.15
112	36.111	517.172	2.340	40.193	514.726	2.320	44.378	512.243	2.301	48.671	509.722	2.284	385.15
114	35.844	519.436	2.346	39.884	517.031	2.326	44.024	514.591	2.307	48.267	512.115	2.290	387.15
116	35.582	521.699	2.352	39.582	519.333	2.332	43.677	516.935	2.314	47.872	514.502	2.296	389.15
118	35.326	523.959	2.358	39.286	521.633	2.338	43.338	519.274	2.320	47.486	516.884	2.302	391.15
120	35.074	526.219	2.363	38.995	523.929	2.344	43.006	521.610	2.325	47.109	519.260	2.308	393.15
122	34.826	528.478	2.369	38.711	526.224	2.350	42.680	523.943	2.331	46.740	521.632	2.314	395.15
124	34.584	530.736	2.375	38.431	528.518	2.355	42.362	526.272	2.337	46.379	523.999	2.320	397.15
126	34.345	532.994	2.380	38.157	530.810	2.361	42.049	528.600	2.343	46.025	526.363	2.326	399.15
128	34.111	535.252	2.386	37.889	533.101	2.367	41.743	530.925	2.349	45.678	528.724	2.332	401.15
130	33.881	537.511	2.392	37.625	535.391	2.373	41.443	533.249	2.355	45.339	531.082	2.338	403.15
132	33.655	539.770	2.397	37.366	537.682	2.378	41.148	535.571	2.360	45.006	533.438	2.344	405.15
134	33.432	542.030	2.403	37.111	539.972	2.384	40.859	537.893	2.366	44.680	535.792	2.349	407.15
136	33.214	544.292	2.408	36.861	542.263	2.389	40.576	540.214	2.372	44.360	538.144	2.355	409.15
138	32.999	546.555	2.414	36.615	544.554	2.395	40.297	542.535	2.377	44.046	540.496	2.361	411.15
140	32.787	548.820	2.419	36.374	546.847	2.401	40.023	544.856	2.383	43.738	542.846	2.367	413.15
142	32.579	551.087	2.425	36.136	549.141	2.406	39.754	547.177	2.389	43.436	545.196	2.372	415.15
144	32.374	553.355	2.430	35.902	551.436	2.412	39.490	549.500	2.394	43.139	547.546	2.378	417.15
146	32.173	555.627	2.436	35.673	553.733	2.417	39.230	551.823	2.400	42.847	549.897	2.384	419.15
148	31.974	557.901	2.441	35.446	556.031	2.423	38.975	554.147	2.405	42.560	552.247	2.389	421.15
150	31.779	560.178	2.447	35.224	558.332	2.428	38.723	556.473	2.411	42.279	554.599	2.395	423.15
152	31.586	562.457	2.452	35.005	560.636	2.434	38.476	558.801	2.416	42.002	556.951	2.400	425.15
154	31.396	564.741	2.457	34.789	562.942	2.439	38.233	561.130	2.422	41.729	559.305	2.406	427.15
156	31.209	567.027	2.463	34.577	565.251	2.444	37.994	563.462	2.427	41.462	561.661	2.411	429.15
158	31.025	569.317	2.468	34.368	567.562	2.450	37.758	565.796	2.433	41.198	564.018	2.417	431.15
160	30.843	571.611	2.473	34.161	569.877	2.455	37.526	568.133	2.438	40.939	566.377	2.422	433.15
162	30.664	573.908	2.479	33.958	572.196	2.460	37.298	570.473	2.444	40.684	568.739	2.428	435.15
164	30.488	576.210	2.484	33.758	574.518	2.466	37.073	572.816	2.449	40.433	571.103	2.433	437.15
166	30.313	578.516	2.489	33.561	576.844	2.471	36.851	575.162	2.454	40.185	573.469	2.439	439.15
168	30.142	580.826	2.494	33.366	579.173	2.476	36.633	577.511	2.460	39.942	575.839	2.444	441.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	28.0 bar			30.0 bar			32.0 bar			35.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
46	83.955	411.649	1.993										319.15
48	81.829	415.678	2.005										321.15
50	79.904	419.526	2.017	90.151	412.324	1.988	98.998	408.869	1.970				323.15
52	78.144	423.222	2.029	87.799	416.471	2.000	96.121	413.358	1.984				325.15
54	76.526	426.787	2.040	85.677	420.423	2.013	93.562	417.597	1.997				327.15
56	75.027	430.239	2.050	83.743	424.212	2.024	91.258	421.632	2.009	111.369	406.060	1.953	329.15
58	73.631	433.591	2.060	81.969	427.862	2.035	89.164	425.496	2.021	107.736	410.975	1.968	331.15
60	72.327	436.856	2.070	80.329	431.391	2.046	87.245	429.215	2.032	104.561	415.565	1.982	333.15
62	71.102	440.042	2.080	78.805	434.816	2.056	85.473	432.808	2.043	101.743	419.895	1.995	335.15
64	69.948	443.158	2.089	77.382	438.147	2.066	83.829	436.292	2.053	99.208	424.013	2.007	337.15
66	68.857	446.211	2.098	76.048	441.397	2.076	82.296	439.679	2.063	96.905	427.954	2.019	339.15
68	67.824	449.207	2.107	74.793	444.572	2.085	80.861	442.981	2.073	94.796	431.746	2.030	341.15
70	66.842	452.151	2.115	73.609	447.681	2.094	79.511	446.206	2.082	92.852	435.408	2.041	343.15
72	65.906	455.048	2.124	72.487	450.731	2.103	78.237	449.363	2.091	91.049	438.957	2.051	345.15
74	65.014	457.901	2.132	71.422	453.726	2.111	77.032	452.459	2.100	89.368	442.407	2.061	347.15
76	64.160	460.714	2.140	70.409	456.671	2.120	75.889	455.498	2.109	87.795	445.769	2.071	349.15
78	63.343	463.491	2.148	69.443	459.572	2.128	74.802	458.486	2.117	86.316	449.053	2.080	351.15
80	62.558	466.235	2.156	68.520	462.431	2.136	73.766	461.427	2.126	84.922	452.266	2.089	353.15
82	61.805	468.947	2.163	67.636	465.252	2.144	72.777	464.326	2.134	83.604	455.416	2.098	355.15
84	61.080	471.632	2.171	66.789	468.038	2.152	71.830	467.185	2.142	82.354	458.508	2.107	357.15
86	60.381	474.289	2.178	65.975	470.792	2.160	70.923	470.009	2.150	81.165	461.547	2.115	359.15
88	59.707	476.922	2.186	65.193	473.516	2.167	70.052	472.800	2.157	80.033	464.539	2.123	361.15
90	59.056	479.533	2.193	64.439	476.213	2.175	69.215	475.560	2.165	78.952	467.487	2.132	363.15
92	58.427	482.123	2.200	63.713	478.884	2.182	68.409	478.292	2.172	77.918	470.395	2.140	365.15
94	57.818	484.693	2.207	63.011	481.533	2.189	67.632	480.997	2.180	76.927	473.267	2.147	367.15
96	57.228	487.246	2.214	62.334	484.159	2.197	66.882	483.679	2.187	75.976	476.104	2.155	369.15
98	56.656	489.782	2.221	61.678	486.765	2.204	66.158	486.338	2.194	75.062	478.910	2.163	371.15
100	56.101	492.302	2.228	61.043	489.353	2.211	65.457	488.977	2.201	74.183	481.687	2.170	373.15
102	55.562	494.808	2.234	60.428	491.923	2.217	64.779	491.597	2.208	73.335	484.437	2.177	375.15
104	55.038	497.301	2.241	59.831	494.477	2.224	64.122	494.198	2.215	72.518	487.162	2.185	377.15
106	54.529	499.782	2.247	59.252	497.017	2.231	63.485	496.784	2.222	71.728	489.865	2.192	379.15
108	54.033	502.251	2.254	58.689	499.542	2.238	62.867	499.354	2.228	70.964	492.547	2.199	381.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	28.0 bar			30.0 bar			32.0 bar			35.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
110	53.550	504.711	2.260	58.141	502.055	2.244	62.266	501.910	2.235	70.225	495.208	2.206	383.15
112	53.080	507.160	2.267	57.609	504.557	2.251	61.683	504.452	2.242	69.510	497.852	2.213	385.15
114	52.621	509.601	2.273	57.091	507.047	2.257	61.115	506.983	2.248	68.815	500.479	2.220	387.15
116	52.173	512.034	2.279	56.585	509.528	2.263	60.562	509.503	2.255	68.142	503.090	2.226	389.15
118	51.737	514.459	2.286	56.093	511.999	2.270	60.023	512.012	2.261	67.488	505.687	2.233	391.15
120	51.310	516.878	2.292	55.613	514.462	2.276	59.499	514.512	2.267	66.852	508.270	2.240	393.15
122	50.893	519.290	2.298	55.144	516.918	2.282	58.987	517.004	2.274	66.234	510.841	2.246	395.15
124	50.486	521.697	2.304	54.687	519.366	2.289	58.488	519.487	2.280	65.632	513.401	2.252	397.15
126	50.087	524.100	2.310	54.240	521.808	2.295	58.000	521.963	2.286	65.046	515.950	2.259	399.15
128	49.697	526.497	2.316	53.803	524.244	2.301	57.524	524.433	2.292	64.475	518.489	2.265	401.15
130	49.316	528.891	2.322	53.376	526.675	2.307	57.059	526.896	2.298	63.918	521.019	2.272	403.15
132	48.942	531.282	2.328	52.959	529.101	2.313	56.604	529.355	2.304	63.375	523.542	2.278	405.15
134	48.576	533.669	2.334	52.550	531.523	2.319	56.160	531.808	2.310	62.845	526.056	2.284	407.15
136	48.217	536.054	2.340	52.150	533.942	2.325	55.725	534.257	2.316	62.328	528.564	2.290	409.15
138	47.866	538.437	2.345	51.758	536.357	2.331	55.299	536.702	2.322	61.822	531.066	2.296	411.15
140	47.521	540.818	2.351	51.374	538.770	2.336	54.882	539.144	2.328	61.327	533.563	2.302	413.15
142	47.183	543.198	2.357	50.997	541.180	2.342	54.473	541.583	2.334	60.844	536.054	2.308	415.15
144	46.851	545.576	2.363	50.628	543.589	2.348	54.072	544.020	2.340	60.371	538.541	2.314	417.15
146	46.525	547.954	2.368	50.266	545.995	2.354	53.680	546.454	2.346	59.908	541.023	2.320	419.15
148	46.205	550.332	2.374	49.911	548.401	2.360	53.295	548.887	2.351	59.455	543.503	2.326	421.15
150	45.891	552.710	2.380	49.563	550.806	2.365	52.917	551.319	2.357	59.011	545.979	2.332	423.15
152	45.583	555.088	2.385	49.221	553.211	2.371	52.547	553.749	2.363	58.576	548.453	2.338	425.15
154	45.280	557.467	2.391	48.885	555.615	2.377	52.183	556.179	2.369	58.150	550.925	2.344	427.15
156	44.982	559.847	2.396	48.555	558.020	2.382	51.826	558.609	2.374	57.731	553.394	2.349	429.15
158	44.689	562.227	2.402	48.231	560.425	2.388	51.475	561.039	2.380	57.321	555.863	2.355	431.15
160	44.400	564.610	2.407	47.912	562.830	2.393	51.131	563.470	2.385	56.919	558.331	2.361	433.15
162	44.117	566.994	2.413	47.599	565.237	2.399	50.792	565.901	2.391	56.524	560.797	2.366	435.15
164	43.838	569.379	2.418	47.291	567.646	2.404	50.459	568.333	2.397	56.137	563.264	2.372	437.15
166	43.564	571.767	2.424	46.988	570.055	2.410	50.132	570.767	2.402	55.756	565.731	2.378	439.15
168	43.294	574.158	2.429	46.690	572.467	2.415	49.810	573.201	2.408	55.382	568.198	2.383	441.15
170	43.028	576.551	2.435	46.397	574.881	2.421	49.494	575.638	2.413	55.014	570.665	2.389	443.15
172	42.766	578.947	2.440	46.109	577.297	2.426	49.183	578.077	2.419	54.653	573.134	2.395	445.15
174	42.509	581.346	2.445	45.825	579.715	2.432	48.876	580.518	2.424	54.298	575.603	2.400	447.15
176	42.255	583.748	2.451	45.545	582.137	2.437	48.575	582.961	2.429	53.949	578.075	2.406	449.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	40.0 bar			45.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
62	134.505	400.178	1.923				335.15
64	129.057	406.019	1.941				337.15
66	124.484	411.328	1.956				339.15
68	120.539	416.242	1.971	158.899	395.107	1.898	341.15
70	117.070	420.849	1.984	151.120	401.960	1.918	343.15
72	113.975	425.209	1.997	144.860	408.004	1.936	345.15
74	111.181	429.366	2.009	139.613	413.491	1.951	347.15
76	108.636	433.352	2.020	135.095	418.564	1.966	349.15
78	106.300	437.191	2.031	131.127	423.315	1.980	351.15
80	104.142	440.904	2.042	127.592	427.809	1.992	353.15
82	102.138	444.506	2.052	124.405	432.089	2.004	355.15
84	100.267	448.010	2.062	121.505	436.190	2.016	357.15
86	98.514	451.427	2.071	118.846	440.139	2.027	359.15
88	96.865	454.767	2.081	116.392	443.955	2.038	361.15
90	95.309	458.036	2.090	114.114	447.655	2.048	363.15
92	93.836	461.243	2.098	111.990	451.254	2.058	365.15
94	92.439	464.392	2.107	110.001	454.762	2.067	367.15
96	91.110	467.489	2.115	108.132	458.189	2.077	369.15
98	89.843	470.538	2.124	106.369	461.543	2.086	371.15
100	88.633	473.544	2.132	104.702	464.832	2.094	373.15
102	87.475	476.510	2.140	103.120	468.061	2.103	375.15
104	86.365	479.438	2.147	101.617	471.236	2.112	377.15
106	85.300	482.333	2.155	100.185	474.361	2.120	379.15
108	84.276	485.197	2.163	98.818	477.440	2.128	381.15
110	83.290	488.032	2.170	97.511	480.479	2.136	383.15
112	82.340	490.840	2.177	96.258	483.478	2.144	385.15
114	81.423	493.623	2.185	95.056	486.443	2.151	387.15
116	80.537	496.383	2.192	93.902	489.375	2.159	389.15
118	79.681	499.122	2.199	92.791	492.277	2.166	391.15
120	78.852	501.841	2.206	91.720	495.151	2.174	393.15
122	78.049	504.542	2.212	90.687	498.000	2.181	395.15
124	77.270	507.227	2.219	89.690	500.825	2.188	397.15
126	76.514	509.895	2.226	88.727	503.627	2.195	399.15
128	75.780	512.549	2.233	87.794	506.410	2.202	401.15

HFC 32 : Properties of Superheated Vapour (SI Units)

Temp (°C)	40.0 bar			45.0 bar			Temp (K)
	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	(kg/m ³) Density	(kJ/kg) Enthalpy	(kJ/kg.K) Entropy	
130	75.067	515.190	2.239	86.891	509.173	2.209	403.15
132	74.373	517.818	2.246	86.015	511.918	2.216	405.15
134	73.698	520.435	2.252	85.166	514.648	2.222	407.15
136	73.040	523.041	2.259	84.341	517.362	2.229	409.15
138	72.399	525.637	2.265	83.540	520.062	2.236	411.15
140	71.775	528.225	2.271	82.761	522.750	2.242	413.15
142	71.165	530.804	2.277	82.002	525.425	2.249	415.15
144	70.570	533.376	2.284	81.264	528.090	2.255	417.15
146	69.989	535.941	2.290	80.545	530.744	2.261	419.15
148	69.422	538.500	2.296	79.845	533.389	2.268	421.15
150	68.867	541.053	2.302	79.161	536.025	2.274	423.15
152	68.324	543.602	2.308	78.494	538.654	2.280	425.15
154	67.793	546.146	2.314	77.843	541.275	2.286	427.15
156	67.274	548.685	2.320	77.207	543.890	2.292	429.15
158	66.765	551.222	2.326	76.586	546.499	2.298	431.15
160	66.267	553.755	2.331	75.978	549.103	2.304	433.15
162	65.779	556.286	2.337	75.384	551.702	2.310	435.15
164	65.301	558.815	2.343	74.802	554.296	2.316	437.15
166	64.832	561.342	2.349	74.233	556.887	2.322	439.15
168	64.371	563.867	2.355	73.675	559.475	2.328	441.15
170	63.920	566.392	2.360	73.129	562.060	2.334	443.15
172	63.477	568.916	2.366	72.594	564.643	2.340	445.15
174	63.042	571.439	2.372	72.069	567.223	2.346	447.15
176	62.615	573.963	2.377	71.555	569.802	2.351	449.15
178	62.196	576.487	2.383	71.050	572.380	2.357	451.15
180	61.783	579.012	2.388	70.555	574.958	2.363	453.15
182	61.378	581.538	2.394	70.069	577.534	2.368	455.15
184	60.98	584.064	2.400	69.592	580.111	2.374	457.15
186	60.589	586.593	2.405	69.124	582.688	2.380	459.15
188	60.204	589.123	2.411	68.663	585.265	2.385	461.15
190	59.825	591.655	2.416	68.211	587.843	2.391	463.15
192	59.452	594.189	2.422	67.766	590.422	2.396	465.15
194	59.086	596.726	2.427	67.329	593.003	2.402	467.15
196	58.725	599.265	2.432	66.900	595.585	2.408	469.15
198	58.369	601.808	2.438	66.477	598.169	2.413	471.15

KLEA® 32



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FLUOR

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