

Refrigerant 22 (Chlorodifluoromethane) Properties of Saturated Liquid and Saturated Vapor

Temp., °F	Pres- sure, psia	Density, Volume, lb/ft ³ , ft ³ /lb		Enthalpy, Btu/lb		Entropy, Btu/lb·°F		Specific Heat c_p , Btu/lb·°F			Vel. of Sound, ft/s		Viscosity, lb _m /ft·h		Thermal Cond., Btu/h·ft·°F		Surface Tension, dyne/cm	Temp., °F
		Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor		
-150.00	0.263	98.28	146.06	-28.119	87.566	-0.07757	0.29600	0.2536	0.1185	1.2437	3716.	469.7	2.093	0.0174	0.0831	0.00255	28.31	-150.00
-140.00	0.436	97.36	90.759	-25.583	88.729	-0.06951	0.28808	0.2536	0.1204	1.2404	3630.	476.2	1.874	0.0180	0.0814	0.00267	27.34	-140.00
-130.00	0.698	96.44	58.384	-23.046	89.899	-0.06170	0.28090	0.2536	0.1223	1.2375	3544.	482.4	1.692	0.0186	0.0797	0.00280	26.36	-130.00
-120.00	1.082	95.52	38.745	-20.509	91.074	-0.05412	0.27439	0.2537	0.1244	1.2350	3458.	488.5	1.537	0.0191	0.0780	0.00293	25.40	-120.00
-110.00	1.629	94.59	26.444	-17.970	92.252	-0.04675	0.26846	0.2540	0.1265	1.2330	3373.	494.2	1.405	0.0197	0.0763	0.00306	24.44	-110.00
-100.00	2.388	93.66	18.511	-15.427	93.430	-0.03959	0.26307	0.2543	0.1288	1.2315	3287.	499.7	1.290	0.0203	0.0747	0.00320	23.49	-100.00
-95.00	2.865	93.19	15.623	-14.154	94.018	-0.03608	0.26055	0.2546	0.1300	1.2310	3245.	502.4	1.238	0.0206	0.0739	0.00327	23.02	-95.00
-90.00	3.417	92.71	13.258	-12.880	94.605	-0.03261	0.25815	0.2549	0.1312	1.2307	3202.	504.9	1.189	0.0208	0.0731	0.00334	22.55	-90.00
-85.00	4.053	92.24	11.309	-11.604	95.191	-0.02918	0.25585	0.2552	0.1324	1.2305	3160.	507.4	1.144	0.0211	0.0723	0.00341	22.08	-85.00
-80.00	4.782	91.76	9.6939	-10.326	95.775	-0.02580	0.25366	0.2556	0.1337	1.2304	3118.	509.8	1.101	0.0214	0.0715	0.00348	21.61	-80.00
-75.00	5.615	91.28	8.3487	-9.046	96.357	-0.02245	0.25155	0.2561	0.1350	1.2305	3075.	512.2	1.060	0.0217	0.0708	0.00355	21.15	-75.00
-70.00	6.561	90.79	7.2222	-7.763	96.937	-0.01915	0.24954	0.2566	0.1363	1.2308	3033.	514.4	1.021	0.0220	0.0700	0.00363	20.68	-70.00
-65.00	7.631	90.31	6.2744	-6.477	97.514	-0.01587	0.24761	0.2571	0.1377	1.2313	2990.	516.5	0.985	0.0223	0.0692	0.00370	20.22	-65.00
-60.00	8.836	89.82	5.4730	-5.189	98.087	-0.01264	0.24577	0.2577	0.1392	1.2320	2948.	518.6	0.951	0.0225	0.0684	0.00378	19.76	-60.00
-55.00	10.190	89.33	4.7924	-3.897	98.657	-0.00943	0.24400	0.2583	0.1406	1.2328	2906.	520.5	0.918	0.0228	0.0677	0.00386	19.30	-55.00
-50.00	11.703	88.83	4.2119	-2.602	99.224	-0.00626	0.24230	0.2591	0.1422	1.2339	2863.	522.4	0.887	0.0231	0.0669	0.00394	18.85	-50.00
-45.00	13.390	88.33	3.7147	-1.303	99.786	-0.00311	0.24067	0.2598	0.1438	1.2352	2821.	524.1	0.857	0.0234	0.0661	0.00402	18.40	-45.00
-41.46b	14.696	87.97	3.4054	-0.381	100.181	-0.00091	0.23955	0.2604	0.1449	1.2362	2791.	525.3	0.837	0.0236	0.0656	0.00407	18.08	-41.46
-40.00	15.262	87.82	3.2872	0.000	100.343	0.00000	0.23910	0.2606	0.1454	1.2367	2778.	525.8	0.829	0.0237	0.0654	0.00410	17.94	-40.00
-35.00	17.336	87.32	2.9181	1.308	100.896	0.00309	0.23759	0.2615	0.1471	1.2384	2736.	527.3	0.802	0.0240	0.0646	0.00418	17.49	-35.00
-30.00	19.624	86.80	2.5984	2.620	101.443	0.00615	0.23615	0.2625	0.1488	1.2404	2694.	528.7	0.776	0.0242	0.0639	0.00426	17.05	-30.00
-25.00	22.142	86.29	2.3204	3.937	101.984	0.00918	0.23475	0.2635	0.1506	1.2426	2651.	530.0	0.751	0.0245	0.0631	0.00435	16.60	-25.00
-20.00	24.906	85.76	2.0778	5.260	102.519	0.01220	0.23341	0.2645	0.1525	1.2451	2609.	531.2	0.728	0.0248	0.0624	0.00444	16.16	-20.00
-15.00	27.929	85.24	1.8656	6.588	103.048	0.01519	0.23211	0.2656	0.1544	1.2479	2566.	532.3	0.705	0.0251	0.0617	0.00452	15.72	-15.00
-10.00	31.230	84.71	1.6792	7.923	103.570	0.01815	0.23086	0.2668	0.1564	1.2510	2524.	533.2	0.683	0.0254	0.0609	0.00461	15.28	-10.00
-5.00	34.824	84.17	1.5150	9.263	104.085	0.02110	0.22965	0.2681	0.1585	1.2544	2481.	534.0	0.662	0.0257	0.0602	0.00471	14.85	-5.00
0.00	38.728	83.63	1.3701	10.610	104.591	0.02403	0.22848	0.2694	0.1607	1.2581	2438.	534.7	0.642	0.0260	0.0595	0.00480	14.41	0.00
5.00	42.960	83.08	1.2417	11.964	105.090	0.02694	0.22735	0.2708	0.1629	1.2622	2396.	535.3	0.622	0.0262	0.0587	0.00489	13.98	5.00
10.00	47.536	82.52	1.1276	13.325	105.580	0.02983	0.22625	0.2722	0.1652	1.2666	2353.	535.7	0.603	0.0265	0.0580	0.00499	13.55	10.00
15.00	52.475	81.96	1.0261	14.694	106.061	0.03270	0.22519	0.2737	0.1676	1.2714	2310.	536.0	0.585	0.0268	0.0573	0.00509	13.13	15.00
20.00	57.795	81.39	0.9354	16.070	106.532	0.03556	0.22415	0.2753	0.1702	1.2767	2268.	536.1	0.568	0.0271	0.0566	0.00519	12.70	20.00
25.00	63.514	80.82	0.8543	17.455	106.994	0.03841	0.22315	0.2770	0.1728	1.2824	2225.	536.1	0.551	0.0274	0.0558	0.00530	12.28	25.00
30.00	69.651	80.24	0.7815	18.848	107.445	0.04124	0.22217	0.2787	0.1755	1.2886	2182.	535.9	0.534	0.0277	0.0551	0.00540	11.86	30.00
35.00	76.225	79.65	0.7161	20.250	107.884	0.04406	0.22121	0.2806	0.1783	1.2953	2139.	535.6	0.518	0.0280	0.0544	0.00551	11.45	35.00
40.00	83.255	79.05	0.6572	21.662	108.313	0.04686	0.22028	0.2825	0.1813	1.3026	2096.	535.1	0.503	0.0283	0.0537	0.00562	11.04	40.00
45.00	90.761	78.44	0.6040	23.083	108.729	0.04966	0.21936	0.2845	0.1844	1.3105	2053.	534.4	0.488	0.0286	0.0530	0.00574	10.63	45.00
50.00	98.763	77.83	0.5558	24.514	109.132	0.05244	0.21847	0.2866	0.1877	1.3191	2010.	533.6	0.473	0.0289	0.0522	0.00586	10.22	50.00
55.00	107.28	77.20	0.5122	25.956	109.521	0.05522	0.21758	0.2889	0.1911	1.3284	1967.	532.6	0.459	0.0292	0.0515	0.00598	9.82	55.00
60.00	116.33	76.57	0.4725	27.409	109.897	0.05798	0.21672	0.2913	0.1947	1.3385	1924.	531.5	0.445	0.0295	0.0508	0.00611	9.41	60.00
65.00	125.94	75.92	0.4364	28.874	110.257	0.06074	0.21586	0.2938	0.1985	1.3495	1880.	530.1	0.432	0.0299	0.0501	0.00625	9.02	65.00
70.00	136.13	75.27	0.4035	30.350	110.602	0.06350	0.21501	0.2964	0.2025	1.3615	1836.	528.6	0.419	0.0302	0.0494	0.00638	8.62	70.00
75.00	146.92	74.60	0.3734	31.839	110.929	0.06625	0.21417	0.2992	0.2067	1.3746	1793.	526.9	0.406	0.0305	0.0487	0.00653	8.23	75.00
80.00	158.33	73.92	0.3459	33.342	111.239	0.06899	0.21333	0.3022	0.2112	1.3889	1749.	525.0	0.394	0.0309	0.0479	0.00668	7.84	80.00
85.00	170.38	73.23	0.3207	34.859	111.530	0.07173	0.21250	0.3054	0.2160	1.4046	1705.	522.9	0.381	0.0312	0.0472	0.00684	7.46	85.00
90.00	183.09	72.52	0.2975	36.391	111.801	0.07447	0.21166	0.3089	0.2212	1.4218	1660.	520.6	0.369	0.0316	0.0465	0.00701	7.08	90.00
95.00	196.50	71.80	0.2762	37.938	112.050	0.07721	0.21083	0.3126	0.2267	1.4407	1615.	518.1	0.358	0.0320	0.0458	0.00718	6.70	95.00
100.00	210.61	71.06	0.2566	39.502	112.276	0.07996	0.20998	0.3166	0.2327	1.4616	1570.	515.4	0.346	0.0324	0.0450	0.00737	6.33	100.00
105.00	225.46	70.30	0.2385	41.084	112.478	0.08270	0.20913	0.3209	0.2391	1.4849	1525.	512.4	0.335	0.0328	0.0443	0.00757	5.96	105.00
110.00	241.06	69.52	0.2217	42.686	112.653	0.08545	0.20827	0.3257	0.2461	1.5107	1479.	509.2	0.324	0.0332	0.0436	0.00778	5.60	110.00
115.00	257.45	68.72	0.2062	44.308	112.799	0.08821	0.20739	0.3309	0.2538	1.5396	1433.	505.8	0.313	0.0336	0.0428	0.00801	5.24	115.00
120.00	274.65	67.90	0.1918	45.952	112.914	0.09098	0.20649	0.3367	0.2623	1.5722	1387.	502.1	0.302	0.0341	0.0421	0.00825	4.88	120.00
125.00	292.69	67.05	0.1785	47.621	112.996	0.09376	0.20557	0.3431	0.2717	1.6090	1340.	498.1	0.292	0.0346	0.0413	0.00851	4.53	125.00
130.00	311.58	66.18	0.1660	49.316	113.040	0.09656	0.20462	0.3504	0.2822	1.6509	1292.	493.9	0.281	0.0351	0.0406	0.00880	4.19	130.00
135.00	331.37	65.27	0.1544	51.041	113.043	0.09937	0.20364	0.3585	0.2941	1.6990	1244.	489.4	0.271	0.0356	0.0399	0.00911	3.85	135.00
140.00	352.08	64.32	0.1435	52.798	113.000	0.10222	0.20261	0.3679	0.3076	1.7548	1195.	484.6	0.260	0.0362	0.0391	0.00946	3.51	140.00
145.00	373.74	63.34	0.1334	54.591	112.907	0.10509	0.20153	0.3787	0.3233									