

Refrigerant 407C [R-32/125/134a (23/25/52)] Properties of Liquid on the Bubble Line and Vapor on the Dew Line

Pres- sure, psia	Temp.*, °F		Den- sity, lb/ft ³	Volume, 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, sure, dyne/cm	Pres- sure, psia
	Bubble	Dew			Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor		
1.00	-125.91	-111.58	94.30	43.0639	-26.04	93.36	-0.06927	0.28125	0.2970	0.1565	1.182	3366.	484.2	1.9459	0.0194	0.0873	0.00354	25.71	1.00
1.50	-116.25	-102.11	93.35	29.4288	-23.17	94.74	-0.06079	0.27589	0.2979	0.1596	1.181	3273.	489.4	1.7307	0.0199	0.0854	0.00373	24.72	1.50
2.00	-108.99	-95.00	92.63	22.4684	-21.00	95.79	-0.05455	0.27221	0.2987	0.1620	1.181	3204.	493.2	1.5942	0.0203	0.0841	0.00388	23.98	2.00
2.50	-103.11	-89.24	92.05	18.2270	-19.24	96.63	-0.04958	0.26941	0.2994	0.1641	1.180	3148.	496.1	1.4962	0.0207	0.0829	0.00400	23.39	2.50
3.00	-98.14	-84.36	91.56	15.3639	-17.75	97.34	-0.04543	0.26717	0.3000	0.1658	1.180	3101.	498.5	1.4209	0.0209	0.0820	0.00410	22.88	3.00
4.00	-89.95	-76.34	90.74	11.7335	-15.29	98.51	-0.03870	0.26373	0.3012	0.1688	1.180	3025.	502.3	1.3095	0.0214	0.0805	0.00427	22.06	4.00
5.00	-83.30	-69.82	90.06	9.5196	-13.28	99.46	-0.03332	0.26113	0.3022	0.1714	1.181	2964.	505.2	1.2290	0.0217	0.0793	0.00441	21.40	5.00
6.00	-77.65	-64.29	89.49	8.0243	-11.57	100.26	-0.02882	0.25905	0.3032	0.1737	1.182	2912.	507.5	1.1666	0.0221	0.0782	0.00453	20.84	6.00
7.00	-72.73	-59.47	88.99	6.9445	-10.07	100.96	-0.02493	0.25733	0.3041	0.1757	1.182	2867.	509.4	1.1161	0.0223	0.0773	0.00463	20.36	7.00
8.00	-68.34	-55.17	88.54	6.1270	-8.74	101.58	-0.02150	0.25587	0.3049	0.1776	1.183	2828.	511.1	1.0739	0.0226	0.0766	0.00473	19.93	8.00
10.00	-60.75	-47.73	87.75	4.9691	-6.41	102.64	-0.01563	0.25348	0.3064	0.1809	1.185	2759.	513.7	1.0063	0.0230	0.0752	0.00489	19.19	10.00
12.00	-54.29	-41.40	87.07	4.1866	-4.43	103.54	-0.01070	0.25158	0.3078	0.1839	1.187	2702.	515.7	0.9537	0.0233	0.0741	0.00503	18.56	12.00
14.00	-48.64	-35.86	86.47	3.6213	-2.68	104.32	-0.00644	0.25000	0.3091	0.1866	1.189	2651.	517.3	0.9110	0.0236	0.0731	0.00515	18.02	14.00
14.70b	-46.82	-34.08	86.28	3.4596	-2.12	104.56	-0.00508	0.24951	0.3095	0.1875	1.189	2635.	517.8	0.8978	0.0237	0.0728	0.00519	17.84	14.70
16.00	-43.59	-30.92	85.94	3.1932	-1.12	105.00	-0.00267	0.24867	0.3103	0.1890	1.191	2606.	518.6	0.8751	0.0239	0.0722	0.00526	17.53	16.00
18.00	-39.03	-26.45	85.45	2.8573	0.30	105.62	0.00072	0.24751	0.3114	0.1914	1.193	2566.	519.7	0.8443	0.0242	0.0714	0.00537	17.10	18.00
20.00	-34.85	-22.36	85.00	2.5866	1.61	106.19	0.00380	0.24649	0.3125	0.1935	1.194	2529.	520.6	0.8174	0.0244	0.0707	0.00546	16.70	20.00
22.00	-30.98	-18.57	84.57	2.3635	2.82	106.70	0.00663	0.24558	0.3135	0.1956	1.196	2495.	521.3	0.7936	0.0246	0.0700	0.00555	16.34	22.00
24.00	-27.38	-15.05	84.18	2.1764	3.95	107.18	0.00925	0.24476	0.3145	0.1975	1.198	2463.	521.9	0.7723	0.0248	0.0694	0.00563	16.00	24.00
26.00	-24.01	-11.74	83.81	2.0172	5.02	107.62	0.01169	0.24402	0.3155	0.1994	1.200	2434.	522.4	0.7530	0.0250	0.0688	0.00571	15.69	26.00
28.00	-20.83	-8.64	83.46	1.8800	6.02	108.04	0.01398	0.24333	0.3164	0.2012	1.202	2406.	522.9	0.7355	0.0252	0.0683	0.00578	15.39	28.00
30.00	-17.83	-5.70	83.12	1.7605	6.98	108.43	0.01613	0.24270	0.3173	0.2029	1.204	2379.	523.2	0.7193	0.0254	0.0678	0.00585	15.11	30.00
32.00	-14.98	-2.91	82.80	1.6555	7.88	108.79	0.01817	0.24212	0.3182	0.2045	1.206	2354.	523.5	0.7044	0.0255	0.0673	0.00592	14.85	32.00
34.00	-12.26	-0.25	82.49	1.5624	8.75	109.14	0.02011	0.24158	0.3190	0.2062	1.208	2331.	523.7	0.6906	0.0257	0.0669	0.00598	14.60	34.00
36.00	-9.67	2.29	82.20	1.4793	9.58	109.47	0.02195	0.24107	0.3198	0.2077	1.210	2308.	523.9	0.6778	0.0258	0.0664	0.00604	14.36	36.00
38.00	-7.18	4.72	81.92	1.4047	10.38	109.78	0.02371	0.24059	0.3207	0.2092	1.212	2286.	524.0	0.6657	0.0260	0.0660	0.00610	14.13	38.00
40.00	-4.79	7.06	81.64	1.3372	11.15	110.08	0.02539	0.24014	0.3215	0.2107	1.214	2265.	524.1	0.6544	0.0261	0.0656	0.00616	13.92	40.00
42.00	-2.50	9.30	81.38	1.2760	11.89	110.36	0.02700	0.23972	0.3223	0.2122	1.216	2245.	524.1	0.6438	0.0262	0.0652	0.00622	13.71	42.00
44.00	-0.28	11.47	81.12	1.2202	12.60	110.64	0.02856	0.23932	0.3230	0.2136	1.218	2226.	524.1	0.6337	0.0264	0.0648	0.00627	13.51	44.00
46.00	1.86	13.56	80.87	1.1690	13.30	110.90	0.03005	0.23893	0.3238	0.2150	1.220	2207.	524.1	0.6241	0.0265	0.0645	0.00632	13.31	46.00
48.00	3.92	15.58	80.63	1.1220	13.97	111.15	0.03149	0.23857	0.3245	0.2163	1.222	2189.	524.1	0.6151	0.0266	0.0641	0.00637	13.13	48.00
50.00	5.93	17.53	80.39	1.0786	14.62	111.39	0.03289	0.23822	0.3253	0.2177	1.224	2171.	524.0	0.6064	0.0267	0.0638	0.00642	12.95	50.00
55.00	10.68	22.18	79.83	0.9835	16.17	111.96	0.03618	0.23741	0.3271	0.2209	1.229	2130.	523.7	0.5865	0.0270	0.0630	0.00654	12.52	55.00
60.00	15.11	26.50	79.30	0.9037	17.63	112.48	0.03924	0.23668	0.3289	0.2240	1.234	2091.	523.3	0.5686	0.0273	0.0623	0.00666	12.13	60.00
65.00	19.27	30.56	78.79	0.8358	19.01	112.95	0.04210	0.23601	0.3306	0.2271	1.239	2054.	522.8	0.5524	0.0275	0.0616	0.00677	11.76	65.00
70.00	23.19	34.39	78.31	0.7772	20.31	113.40	0.04478	0.23540	0.3323	0.2300	1.244	2020.	522.3	0.5376	0.0277	0.0610	0.00687	11.42	70.00
75.00	26.90	38.01	77.85	0.7263	21.55	113.81	0.04731	0.23483	0.3340	0.2329	1.249	1987.	521.6	0.5239	0.0280	0.0603	0.00697	11.10	75.00
80.00	30.43	41.46	77.41	0.6814	22.73	114.19	0.04971	0.23429	0.3356	0.2357	1.255	1956.	520.9	0.5113	0.0282	0.0598	0.00707	10.79	80.00
85.00	33.80	44.74	76.98	0.6417	23.87	114.55	0.05200	0.23379	0.3372	0.2384	1.260	1927.	520.2	0.4996	0.0284	0.0592	0.00716	10.50	85.00
90.00	37.02	47.88	76.57	0.6062	24.96	114.89	0.05418	0.23332	0.3388	0.2411	1.265	1898.	519.3	0.4886	0.0286	0.0587	0.00725	10.22	90.00
95.00	40.11	50.89	76.17	0.5744	26.01	115.21	0.05626	0.23287	0.3404	0.2438	1.270	1871.	518.5	0.4783	0.0288	0.0582	0.00734	9.96	95.00
100.00	43.08	53.78	75.78	0.5456	27.02	115.51	0.05826	0.23245	0.3420	0.2464	1.276	1845.	517.6	0.4686	0.0290	0.0577	0.00743	9.71	100.00
110.00	48.70	59.24	75.03	0.4956	28.96	116.07	0.06203	0.23165	0.3452	0.2516	1.287	1795.	515.7	0.4508	0.0294	0.0568	0.00760	9.23	110.00
120.00	53.95	64.35	74.32	0.4537	30.78	116.56	0.06555	0.23092	0.3483	0.2567	1.298	1748.	513.8	0.4347	0.0297	0.0559	0.00776	8.80	120.00
130.00	58.87	69.13	73.64	0.4180	32.50	117.01	0.06884	0.23024	0.3515	0.2618	1.309	1704.	511.7	0.4201	0.0300	0.0551	0.00792	8.39	130.00
140.00	63.53	73.65	72.99	0.3872	34.14	117.41	0.07194	0.22960	0.3546	0.2669	1.321	1662.	509.5	0.4066	0.0304	0.0543	0.00808	8.01	140.00
150.00	67.94	77.93	72.36	0.3604	35.71	117.78	0.07488	0.22899	0.3578	0.2720	1.333	1623.	507.3	0.3943	0.0307	0.0536	0.00824	7.65	150.00
160.00	72.13	81.99	71.75	0.3368	37.21	118.11	0.07767	0.22841	0.3610	0.2771	1.346	1585.	505.0	0.3828	0.0310	0.0529	0.00840	7.32	160.00
170.00	76.14	85.87	71.16	0.3159	38.66	118.41	0.08034	0.22785	0.3643	0.2823	1.359	1548.	502.7	0.3720	0.0313	0.0522	0.00855	7.00	170.00
180.00	79.97	89.58	70.58	0.2972	40.06	118.68	0.08289	0.22731	0.3676	0.2875	1.373	1513.	500.4	0.3619	0.0316	0.0516	0.00871	6.69	180.00
190.00	83.65	93.13	70.01	0.2804	41.41	118.93	0.08533	0.22679	0.3709	0.2928	1.387	1479.	498.0	0.3525	0.0319	0.0510	0.00886	6.41	190.00
200.00	87.18	96.55	69.46	0.2653	42.72	119.15	0.08769	0.22628	0.3744	0.2982	1.401	1447.	495.5	0.3435	0.0322	0.0504	0.00902	6.13	200.00
220.00	93.88	103.00	68.38	0.2389	45.23	119.53	0.09215	0.22529	0.3815	0.3094	1.432	1385.	490.5	0.3269	0.0328	0.0493	0.00934	5.62	220.00
240.00	100.14	109.02	67.33	0.2167	47.61	119.83	0.09633	0.22433	0.3890	0.321									