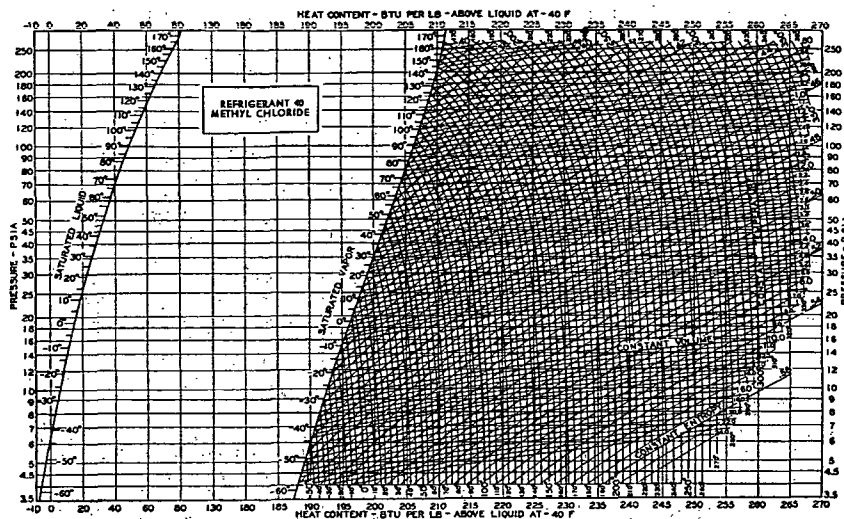




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Fig. 7 . . . Pressure-Enthalpy Diagram for Refrigerant 40.

Table 11 . . . Refrigerant 40 (Methyl Chloride) Properties of Liquid and Saturated Vapor*

Temp F	Pressure		Volume cu ft/lb	Density lb/cu ft	Enthalpy** Btu/lb	Entropy** Btu/(lb) (°R)	Temp F	Pressure		Volume cu ft/lb	Density lb/cu ft	Enthalpy** Btu/lb	Entropy** Btu/(lb) (°R)			
	psia	psig						psia	psig							
-80	1.953	25.94*	41.08	66.98	-13.988	184.75	-0.0351	0.4882	50	51.99	37.29	1.920	58.69	22.93	0.0710	0.4034
-70	2.701	34.32*	29.84	66.91	-10.521	186.25	-0.0261	0.4790	60	63.08	47.39	1.824	58.00	36.71	0.0784	0.3991
-60	3.709	42.19*	22.09	66.86	-7.030	187.74	-0.0172	0.4703	70	74.37	57.47	1.727	57.31	50.83	0.0839	0.3958
-50	5.054	50.43*	16.54	65.02	-3.632	189.21	-0.0083	0.4620	80	85.83	67.73	1.624	56.61	64.21	0.0884	0.3925
-40	6.878	59.92*	12.73	64.39	0.000	190.66	-0.0000	0.4544	90	97.45	78.21	1.515	55.91	77.64	0.0921	0.3892
-30	9.036	71.62*	9.873	63.78	3.562	192.08	0.0084	0.4473	100	109.22	88.89	1.401	55.20	91.18	0.0950	0.3859
-20	11.71	83.00*	7.761	63.17	7.146	193.49	0.0166	0.4405	110	121.14	99.70	1.282	54.49	104.83	0.0971	0.3826
-10	14.98	95.93*	6.176	62.56	10.78	194.87	0.0247	0.4343	120	133.21	110.73	1.159	53.78	118.56	0.0985	0.3793
0	18.90	120.01*	4.969	62.00	14.39	196.23	0.0327	0.4284	130	145.43	121.98	1.033	53.06	132.36	0.0993	0.3760
10	23.50	152.01*	4.038	61.31	18.04	197.58	0.0406	0.4229	140	157.80	133.45	0.905	52.34	146.22	0.1000	0.3727
20	28.95	192.95*	3.312	60.51	21.73	198.84	0.0484	0.4177	150	170.32	145.13	0.776	51.61	160.14	0.1008	0.3694
30	35.33	240.33*	2.789	60.01	25.44	200.03	0.0560	0.4126	160	183.00	157.25	0.646	50.88	174.12	0.1016	0.3661
40	42.68	295.68*	2.365	59.51	29.15	201.17	0.0635	0.4079	170	195.83	169.60	0.515	50.15	188.16	0.1024	0.3628
50	50.95	358.95*	2.020	59.00	32.86	202.26	0.0709	0.4036	180	208.81	182.21	0.384	49.42	202.26	0.1032	0.3595
60	59.99	429.99*	1.739	58.49	36.57	203.31	0.0783	0.4000	190	221.94	195.06	0.253	48.69	216.42	0.1040	0.3562
70	69.84	508.84*	1.504	57.98	40.28	204.33	0.0857	0.3967	200	235.21	208.25	0.122	47.96	230.64	0.1048	0.3529
80	80.44	595.44*	1.299	57.47	44.00	205.32	0.0931	0.3937	210	248.63	221.79	0.091	47.23	244.92	0.1056	0.3496
90	91.74	689.74*	1.120	56.96	47.73	206.28	0.1005	0.3910	220	262.20	235.68	0.059	46.50	259.26	0.1064	0.3463
100	103.69	791.69*	0.964	56.45	51.46	207.21	0.1079	0.3886	230	275.92	249.91	0.027	45.77	273.64	0.1072	0.3430
110	116.24	901.24*	0.829	55.94	55.19	208.11	0.1153	0.3864	240	289.79	264.40	0.000	45.04	288.06	0.1080	0.3397
120	129.44	1018.44*	0.713	55.43	58.92	208.98	0.1227	0.3844	250	303.81	279.13	-0.032	44.31	302.52	0.1088	0.3364
130	143.24	1143.24*	0.613	54.92	62.65	209.82	0.1301	0.3826	260	317.98	294.11	-0.064	43.58	317.04	0.1096	0.3331
140	157.61	1275.61*	0.527	54.41	66.38	210.63	0.1375	0.3810	270	332.30	309.34	-0.096	42.85	331.62	0.1104	0.3298
150	172.63	1415.63*	0.453	53.90	70.11	211.41	0.1449	0.3796	280	346.77	324.91	-0.128	42.12	346.26	0.1112	0.3265
160	188.34	1563.34*	0.389	53.39	73.84	212.16	0.1523	0.3783	290	361.39	340.81	-0.160	41.39	360.94	0.1120	0.3232
170	204.69	1718.69*	0.335	52.88	77.57	212.89	0.1597	0.3771	300	376.15	356.95	-0.192	40.66	375.66	0.1128	0.3199
180	221.74	1881.74*	0.289	52.37	81.30	213.60	0.1671	0.3760	310	391.05	373.35	-0.224	39.93	390.38	0.1136	0.3166
190	239.44	2052.44*	0.250	51.86	85.03	214.29	0.1745	0.3750	320	406.09	390.00	-0.256	39.20	405.10	0.1144	0.3133
200	257.74	2230.74*	0.217	51.35	88.76	214.96	0.1819	0.3741	330	421.27	406.81	-0.288	38.47	419.82	0.1152	0.3100
210	276.69	2416.69*	0.189	50.84	92.49	215.61	0.1893	0.3733	340	436.59	423.81	-0.320	37.74	434.54	0.1160	0.3067
220	296.24	2610.24*	0.165	50.33	96.22	216.24	0.1967	0.3726	350	452.05	441.00	-0.352	37.01	449.26	0.1168	0.3034
230	316.39	2811.39*	0.143	49.82	100.00	216.85	0.2041	0.3720	360	467.65	458.39	-0.384	36.28	463.98	0.1176	0.3001
240	337.19	3019.19*	0.122	49.31	103.73	217.44	0.2115	0.3715	370	483.39	475.95	-0.416	35.55	478.70	0.1184	0.2968
250	358.64	3234.64*	0.103	48.80	107.50	218.01	0.2189	0.3711	380	499.27	493.71	-0.448	34.82	493.42	0.1192	0.2935
260	380.84	3457.84*	0.086	48.29	111.27	218.56	0.2263	0.3708	390	515.29	511.73	-0.480	34.09	508.14	0.1200	0.2902
270	403.74	3688.74*	0.071	47.78	115.00	219.09	0.2337	0.3706	400	531.44	529.98	-0.512	33.36	522.86	0.1208	0.2869
280	427.39	3927.39*	0.058	47.27	118.73	219.60	0.2411	0.3705	410	547.73	548.47	-0.544	32.63	537.58	0.1216	0.2836
290	451.74	4173.74*	0.047	46.76	122.46	220.09	0.2485	0.3706	420	564.16	567.21	-0.576	31.90	552.30	0.1224	0.2803
300	476.74	4428.74*	0.038	46.25	126.19	220.56	0.2559	0.3708	430	580.73	586.18	-0.608	31.17	567.02	0.1232	0.2770
310	502.34	4691.34*	0.031	45.74	129.92	221.01	0.2633	0.3711	440	597.44	605.39	-0.640	30.44	581.74	0.1240	0.2737
320	528.54	4961.54*	0.025	45.23	133.65	221.44	0.2707	0.3715	450	614.29	624.95	-0.672	29.71	596.46	0.1248	0.2704
330	555.29	5239.29*	0.020	44.72	137.38	221.85	0.2781	0.3720	460	631.28	644.76	-0.704	28.98	611.18	0.1256	0.2671
340	582.64	5524.64*	0.016	44.21	141.11	222.24	0.2855	0.3726	470	648.41	664.81	-0.736	28.25	625.90	0.1264	0.2638
350	610.59	5817.59*	0.013	43.70	144.84	222.61	0.2929	0.3733	480	665.68	685.10	-0.768	27.52	640.62	0.1272	0.2605
360	639.14	6117.14*	0.010	43.19	148.57	222.96	0.3003	0.3741	490	683.09	705.63	-0.800	26.79	655.34	0.1280	0.2572
370	668.34	6423.34*	0.008	42.68	152.30	223.29	0.3077	0.3750	500	700.64	726.39	-0.832	26.06	670.06	0.1288	0.2539
380	698.14	6736.14*	0.006	42.17	156.03	223.60	0.3151	0.3759	510	718.33	747.36	-0.864	25.33	684.78	0.1296	0.2506
390	728.59	7055.59*	0.005	41.66	159.76	223.89	0.3225	0.3769	520	736.16	768.51	-0.896	24.60	699.50	0.1304	0.2473
400	759.74	7381.74*	0.004	41.15	163.49	224.16	0.3299	0.3779	530	754.13	789.81	-0.928	23.87	714.22	0.1312	0.2440
410	791.59	7714.59*	0.003	40.64	167.22	224.41	0.3373	0.3790	540	772.24	811.36	-0.960	23.14	728.94	0.1320	0.2407
420	824.09	8054.09*	0.002	40.13	170.95	224.64	0.3447	0.3801	550	790.49	833.15	-0.992	22.41	743.66	0.1328	0.2374
430	857.29	8400.29*	0.001	39.62	174.68	224.85	0.3521	0.3812	560	808.88	855.18	-1.024	21.68	758.38	0.1336	0.2341
440	891.14	8752.14*	0.001	39.11	178.41	225.04	0.3595	0.3823	570	827.41	877.45	-1.056	20.95	773.10	0.1344	0.2308
450	925.59	9109.59*	0.000	38.60	182.14	225.21	0.3669	0.3834	580	846.08	899.96	-1.088	20.22	787.82	0.1352	0.2275
460	960.59	9472.59*	0.000	38.09	185.87	225.36	0.3743	0.3845	590	864.89	922.71	-1.120	19.49	802.54	0.1360	0.2242
470	996.09	9841.09*	0.000	37.58	189.60	225.49	0.3817	0.3856	600	883.84	945.70	-1.152	18.76	817.26	0.1368	0.2209
480	1032.14	10215.14*	0.000	37.07	193.33	225.60	0.3891	0.3867	610	902.93	968.83	-1.184	18.03	831.98	0.1376	0.2176
490	1068.79	10595.79*	0.000	36.56	197.06	225.69	0.3965	0.3878	620	922.16	992.10	-1.216	17.30	846.70	0.1384	0.2143
500	1105.99	10982.99*	0.000	36.05	200.79	225.76	0.4039	0.3889	630	941.53	1015.51	-1.248	16.57	861.42	0.1392	0.2110
510	1143.69	11376.69*	0.000	35.54	204.52	225.81	0.4113	0.3900	640	961.04	1039.06	-1.280	15.84	876.14	0.1400	0.2077
520	1181.84	11776.84*	0.000	35.03	208.25	225.84	0.4187	0.3911	650	980.69	1062.75	-1.312	15.11	890.86	0.1408	0.2044
530	1220.49	12183.49*	0.000	34.52	211.98	225.85	0.4261	0.3922	660	1000.48	1086.58	-1.344	14.38	905.58	0.1416	0.2011
540	1259.64	12596.64*	0.000	34.01	215.71	225.86	0.4335	0.3933	670	1020.41	1110.55	-1.376	13.65	920.30	0.1424	0.1978
550	1299.29	13003.29*	0.000	33.50	219.44	225.87	0.4409	0.3944	680	1040.49	1134.71	-1.408	12.92	935.02	0.1432	0.1945
560	1339.44	13414.44*	0.000	32.99	223.17	225.88	0.4483	0.3955	690	1060.62	1158.94	-1.440	12.19	949.74	0.1440	0.1912
570	1379.99	13825.99*	0.000	32.48	226.90	225.89	0.4557	0.3966	700	1080.80	1183.21	-1.472	11.46	964.46	0.1448	0.1879
580	1420.94	14237.94*	0.000	31.97	230.63	225.90	0.4631	0.3977	710	1101.03	1207.52	-1.504	10.7.0			