



# Forane<sup>®</sup> 407C

(23.0% R-32, 25.0% R-125, 52.0% R-134a by weight)

## Thermodynamic Properties (Saturation) - ENG

This data was generated using the NIST REFPROP Database

(Lemmon, E.W., Huber, M.L., McLinden, M.O. NIST Standard Reference Database 23: Reference Fluid Thermodynamic and Transport Properties-REFPROP, Version 9.0, National Institute of Standards and Technology, Standard Reference Data Program, Gaithersburg, 2010)



**Thermodynamic Properties of R-407C - Saturation**

Temperature (°F)	Pressure (psia)		Volume (ft <sup>3</sup> /lb)		Density (lb/ft <sup>3</sup> )		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (°F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
-150	0.306	0.138	0.01034	279.66	96.72	0.00358	28.60	150.96	0.09402	0.49892	-150
-149	0.322	0.146	0.01035	264.49	96.62	0.00378	28.91	151.10	0.09502	0.49802	-149
-148	0.339	0.155	0.01036	250.25	96.51	0.00400	29.22	151.25	0.09601	0.49713	-148
-147	0.357	0.164	0.01037	236.88	96.41	0.00422	29.53	151.39	0.09700	0.49625	-147
-146	0.376	0.174	0.01038	224.33	96.31	0.00446	29.83	151.53	0.09799	0.49538	-146
-145	0.395	0.184	0.01039	212.53	96.21	0.00471	30.14	151.67	0.09897	0.49452	-145
-144	0.416	0.195	0.01040	201.44	96.11	0.00496	30.45	151.81	0.09995	0.49366	-144
-143	0.437	0.206	0.01042	191.01	96.01	0.00524	30.76	151.96	0.10093	0.49282	-143
-142	0.459	0.218	0.01043	181.20	95.91	0.00552	31.07	152.10	0.10190	0.49199	-142
-141	0.482	0.230	0.01044	171.96	95.81	0.00582	31.38	152.24	0.10287	0.49116	-141
-140	0.506	0.243	0.01045	163.27	95.71	0.00613	31.69	152.38	0.10383	0.49035	-140
-139	0.531	0.257	0.01046	155.07	95.61	0.00645	31.99	152.53	0.10479	0.48954	-139
-138	0.557	0.271	0.01047	147.34	95.51	0.00679	32.30	152.67	0.10575	0.48874	-138
-137	0.584	0.286	0.01048	140.06	95.42	0.00714	32.61	152.81	0.10671	0.48795	-137
-136	0.613	0.302	0.01049	133.19	95.32	0.00751	32.92	152.96	0.10766	0.48717	-136
-135	0.642	0.318	0.01050	126.70	95.22	0.00789	33.22	153.10	0.10861	0.48640	-135
-134	0.673	0.335	0.01051	120.58	95.12	0.00829	33.53	153.25	0.10955	0.48563	-134
-133	0.704	0.353	0.01053	114.80	95.02	0.00871	33.84	153.39	0.11049	0.48487	-133
-132	0.738	0.372	0.01054	109.33	94.92	0.00915	34.15	153.53	0.11143	0.48413	-132
-131	0.772	0.391	0.01055	104.17	94.82	0.00960	34.45	153.68	0.11237	0.48339	-131
-130	0.808	0.412	0.01056	99.28	94.72	0.01007	34.76	153.82	0.11330	0.48265	-130
-129	0.845	0.433	0.01057	94.66	94.62	0.01056	35.07	153.97	0.11423	0.48193	-129
-128	0.883	0.456	0.01058	90.29	94.52	0.01108	35.37	154.11	0.11515	0.48121	-128
-127	0.923	0.479	0.01059	86.15	94.42	0.01161	35.68	154.25	0.11608	0.48050	-127
-126	0.965	0.503	0.01060	82.23	94.32	0.01216	35.99	154.40	0.11700	0.47980	-126
-125	1.008	0.528	0.01061	78.51	94.22	0.01274	36.29	154.54	0.11791	0.47911	-125
-124	1.053	0.555	0.01063	74.99	94.12	0.01334	36.60	154.69	0.11883	0.47842	-124
-123	1.099	0.582	0.01064	71.65	94.02	0.01396	36.91	154.83	0.11974	0.47774	-123
-122	1.147	0.611	0.01065	68.48	93.92	0.01460	37.21	154.98	0.12065	0.47707	-122
-121	1.197	0.641	0.01066	65.48	93.82	0.01527	37.52	155.12	0.12156	0.47640	-121
-120	1.249	0.672	0.01067	62.63	93.72	0.01597	37.83	155.27	0.12246	0.47574	-120
-119	1.302	0.704	0.01068	59.92	93.62	0.01669	38.13	155.41	0.12336	0.47509	-119
-118	1.358	0.738	0.01069	57.34	93.52	0.01744	38.44	155.56	0.12426	0.47445	-118
-117	1.415	0.773	0.01071	54.90	93.42	0.01822	38.74	155.70	0.12515	0.47381	-117
-116	1.475	0.809	0.01072	52.58	93.32	0.01902	39.05	155.85	0.12604	0.47318	-116
-115	1.536	0.847	0.01073	50.37	93.22	0.01986	39.36	155.99	0.12693	0.47256	-115
-114	1.600	0.886	0.01074	48.27	93.12	0.02072	39.66	156.14	0.12782	0.47194	-114
-113	1.665	0.927	0.01075	46.27	93.02	0.02162	39.97	156.28	0.12871	0.47133	-113
-112	1.733	0.969	0.01076	44.36	92.92	0.02254	40.28	156.43	0.12959	0.47072	-112
-111	1.803	1.014	0.01077	42.55	92.82	0.02350	40.58	156.58	0.13047	0.47012	-111
-110	1.876	1.059	0.01079	40.82	92.72	0.02450	40.89	156.72	0.13134	0.46953	-110
-109	1.951	1.107	0.01080	39.18	92.62	0.02552	41.20	156.87	0.13222	0.46895	-109
-108	2.029	1.156	0.01081	37.61	92.52	0.02659	41.50	157.01	0.13309	0.46837	-108
-107	2.109	1.207	0.01082	36.12	92.42	0.02769	41.81	157.16	0.13396	0.46779	-107
-106	2.191	1.260	0.01083	34.69	92.32	0.02882	42.11	157.30	0.13483	0.46722	-106
-105	2.276	1.314	0.01084	33.34	92.22	0.03000	42.42	157.45	0.13569	0.46666	-105
-104	2.364	1.371	0.01086	32.04	92.12	0.03121	42.73	157.60	0.13656	0.46611	-104
-103	2.455	1.430	0.01087	30.80	92.02	0.03247	43.03	157.74	0.13742	0.46556	-103
-102	2.549	1.491	0.01088	29.62	91.92	0.03376	43.34	157.89	0.13827	0.46501	-102
-101	2.646	1.554	0.01089	28.49	91.81	0.03510	43.65	158.03	0.13913	0.46447	-101
-100	2.745	1.619	0.01090	27.41	91.71	0.03648	43.95	158.18	0.13998	0.46394	-100
-99	2.848	1.686	0.01092	26.38	91.61	0.03791	44.26	158.33	0.14083	0.46341	-99
-98	2.954	1.756	0.01093	25.40	91.51	0.03938	44.57	158.47	0.14168	0.46289	-98

**Thermodynamic Properties of R-407C - Saturation**

Temperature (°F)	Pressure (psia)		Volume (ft <sup>3</sup> /lb)		Density (lb/ft <sup>3</sup> )		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (°F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
-97	3.063	1.828	0.01094	24.45	91.41	0.04089	44.88	158.62	0.14253	0.46237	-97
-96	3.175	1.903	0.01095	23.55	91.31	0.04246	45.18	158.76	0.14338	0.46186	-96
-95	3.291	1.980	0.01096	22.69	91.21	0.04407	45.49	158.91	0.14422	0.46136	-95
-94	3.410	2.060	0.01098	21.87	91.11	0.04573	45.80	159.06	0.14506	0.46086	-94
-93	3.532	2.142	0.01099	21.08	91.01	0.04745	46.10	159.20	0.14590	0.46036	-93
-92	3.659	2.227	0.01100	20.32	90.91	0.04921	46.41	159.35	0.14673	0.45987	-92
-91	3.788	2.315	0.01101	19.60	90.80	0.05103	46.72	159.49	0.14757	0.45938	-91
-90	3.922	2.406	0.01103	18.90	90.70	0.05290	47.03	159.64	0.14840	0.45890	-90
-89	4.059	2.499	0.01104	18.24	90.60	0.05483	47.33	159.78	0.14923	0.45843	-89
-88	4.201	2.596	0.01105	17.60	90.50	0.05682	47.64	159.93	0.15006	0.45796	-88
-87	4.346	2.696	0.01106	16.99	90.40	0.05886	47.95	160.08	0.15088	0.45749	-87
-86	4.496	2.798	0.01108	16.40	90.30	0.06096	48.26	160.22	0.15171	0.45703	-86
-85	4.649	2.904	0.01109	15.84	90.19	0.06312	48.56	160.37	0.15253	0.45657	-85
-84	4.807	3.014	0.01110	15.30	90.09	0.06535	48.87	160.51	0.15335	0.45612	-84
-83	4.969	3.126	0.01111	14.79	89.99	0.06764	49.18	160.66	0.15417	0.45567	-83
-82	5.136	3.243	0.01113	14.29	89.89	0.06999	49.49	160.80	0.15499	0.45523	-82
-81	5.307	3.362	0.01114	13.81	89.79	0.07240	49.80	160.95	0.15580	0.45479	-81
-80	5.483	3.485	0.01115	13.35	89.68	0.07489	50.11	161.10	0.15661	0.45436	-80
-79	5.663	3.612	0.01116	12.91	89.58	0.07744	50.41	161.24	0.15742	0.45393	-79
-78	5.848	3.743	0.01118	12.49	89.48	0.08007	50.72	161.39	0.15823	0.45351	-78
-77	6.039	3.878	0.01119	12.08	89.38	0.08276	51.03	161.53	0.15904	0.45309	-77
-76	6.234	4.016	0.01120	11.69	89.27	0.08553	51.34	161.68	0.15985	0.45267	-76
-75	6.434	4.159	0.01121	11.32	89.17	0.08837	51.65	161.82	0.16065	0.45226	-75
-74	6.639	4.305	0.01123	10.96	89.07	0.09128	51.96	161.97	0.16145	0.45185	-74
-73	6.850	4.456	0.01124	10.61	88.97	0.09428	52.27	162.11	0.16225	0.45144	-73
-72	7.066	4.611	0.01125	10.27	88.86	0.09735	52.58	162.26	0.16305	0.45105	-72
-71	7.287	4.770	0.01127	9.950	88.76	0.10050	52.89	162.40	0.16385	0.45065	-71
-70	7.514	4.934	0.01128	9.640	88.66	0.10373	53.20	162.55	0.16464	0.45026	-70
-69	7.746	5.103	0.01129	9.341	88.55	0.10705	53.51	162.69	0.16544	0.44987	-69
-68	7.985	5.276	0.01131	9.054	88.45	0.11045	53.82	162.83	0.16623	0.44948	-68
-67	8.229	5.454	0.01132	8.777	88.35	0.11394	54.13	162.98	0.16702	0.44910	-67
-66	8.479	5.636	0.01133	8.510	88.24	0.11751	54.44	163.12	0.16781	0.44873	-66
-65	8.735	5.824	0.01135	8.252	88.14	0.12118	54.75	163.27	0.16859	0.44836	-65
-64	8.998	6.017	0.01136	8.004	88.03	0.12493	55.06	163.41	0.16938	0.44799	-64
-63	9.267	6.214	0.01137	7.765	87.93	0.12878	55.37	163.56	0.17016	0.44762	-63
-62	9.542	6.417	0.01139	7.535	87.83	0.13272	55.68	163.70	0.17094	0.44726	-62
-61	9.823	6.626	0.01140	7.312	87.72	0.13676	55.99	163.84	0.17172	0.44690	-61
-60	10.11	6.840	0.01141	7.098	87.62	0.14089	56.31	163.99	0.17250	0.44655	-60
-59	10.41	7.059	0.01143	6.891	87.51	0.14513	56.62	164.13	0.17328	0.44619	-59
-58	10.71	7.284	0.01144	6.691	87.41	0.14946	56.93	164.27	0.17405	0.44585	-58
-57	11.02	7.515	0.01146	6.498	87.30	0.15390	57.24	164.42	0.17483	0.44550	-57
-56	11.33	7.751	0.01147	6.312	87.20	0.15844	57.55	164.56	0.17560	0.44516	-56
-55	11.66	7.994	0.01148	6.132	87.09	0.16309	57.87	164.70	0.17637	0.44482	-55
-54	11.99	8.243	0.01150	5.958	86.99	0.16785	58.18	164.85	0.17714	0.44449	-54
-53	12.32	8.497	0.01151	5.790	86.88	0.17271	58.49	164.99	0.17791	0.44416	-53
-52	12.67	8.759	0.01152	5.628	86.78	0.17769	58.80	165.13	0.17868	0.44383	-52
-51	13.02	9.026	0.01154	5.471	86.67	0.18278	59.12	165.27	0.17944	0.44351	-51
-50	13.38	9.300	0.01155	5.320	86.56	0.18799	59.43	165.42	0.18021	0.44318	-50
-49	13.75	9.581	0.01157	5.173	86.46	0.19331	59.74	165.56	0.18097	0.44286	-49
-48	14.13	9.868	0.01158	5.031	86.35	0.19876	60.06	165.70	0.18173	0.44255	-48
-47	14.51	10.16	0.01160	4.894	86.25	0.20432	60.37	165.84	0.18249	0.44224	-47
-46	14.91	10.46	0.01161	4.762	86.14	0.21001	60.69	165.98	0.18325	0.44193	-46
-45	15.31	10.77	0.01162	4.634	86.03	0.21582	61.00	166.12	0.18400	0.44162	-45

**Thermodynamic Properties of R-407C - Saturation**

Temperature (°F)	Pressure (psia)		Volume (ft <sup>3</sup> /lb)		Density (lb/ft <sup>3</sup> )		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (°F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
-44	15.72	11.09	0.01164	4.509	85.93	0.22176	61.31	166.26	0.18476	0.44132	-44
-43	16.13	11.41	0.01165	4.389	85.82	0.22783	61.63	166.41	0.18551	0.44102	-43
-42	16.56	11.74	0.01167	4.273	85.71	0.23402	61.94	166.55	0.18627	0.44072	-42
-41	17.00	12.08	0.01168	4.161	85.60	0.24036	62.26	166.69	0.18702	0.44042	-41
-40	17.44	12.43	0.01170	4.052	85.50	0.24682	62.57	166.83	0.18777	0.44013	-40
-39	17.90	12.78	0.01171	3.946	85.39	0.25343	62.89	166.97	0.18852	0.43984	-39
-38	18.36	13.14	0.01173	3.844	85.28	0.26017	63.21	167.11	0.18926	0.43956	-38
-37	18.83	13.51	0.01174	3.745	85.17	0.26705	63.52	167.25	0.19001	0.43927	-37
-36	19.31	13.89	0.01176	3.649	85.07	0.27408	63.84	167.39	0.19076	0.43899	-36
-35	19.81	14.27	0.01177	3.556	84.96	0.28125	64.16	167.53	0.19150	0.43871	-35
-34	20.31	14.67	0.01179	3.465	84.85	0.28858	64.47	167.66	0.19224	0.43843	-34
-33	20.82	15.07	0.01180	3.378	84.74	0.29605	64.79	167.80	0.19298	0.43816	-33
-32	21.34	15.48	0.01182	3.293	84.63	0.30367	65.11	167.94	0.19372	0.43789	-32
-31	21.87	15.91	0.01183	3.211	84.52	0.31145	65.42	168.08	0.19446	0.43762	-31
-30	22.42	16.34	0.01185	3.131	84.41	0.31938	65.74	168.22	0.19520	0.43736	-30
-29	22.97	16.77	0.01186	3.054	84.30	0.32747	66.06	168.36	0.19594	0.43709	-29
-28	23.53	17.22	0.01188	2.979	84.19	0.33573	66.38	168.49	0.19667	0.43683	-28
-27	24.11	17.68	0.01189	2.906	84.08	0.34415	66.70	168.63	0.19741	0.43657	-27
-26	24.69	18.15	0.01191	2.835	83.97	0.35273	67.01	168.77	0.19814	0.43631	-26
-25	25.29	18.63	0.01192	2.766	83.86	0.36148	67.33	168.91	0.19887	0.43606	-25
-24	25.89	19.11	0.01194	2.700	83.75	0.37041	67.65	169.04	0.19960	0.43581	-24
-23	26.51	19.61	0.01196	2.635	83.64	0.37950	67.97	169.18	0.20033	0.43556	-23
-22	27.14	20.12	0.01197	2.572	83.53	0.38877	68.29	169.32	0.20106	0.43531	-22
-21	27.78	20.63	0.01199	2.511	83.42	0.39822	68.61	169.45	0.20179	0.43507	-21
-20	28.44	21.16	0.01200	2.452	83.31	0.40785	68.93	169.59	0.20251	0.43482	-20
-19	29.10	21.70	0.01202	2.394	83.20	0.41767	69.25	169.72	0.20324	0.43458	-19
-18	29.78	22.25	0.01204	2.338	83.09	0.42766	69.57	169.86	0.20396	0.43434	-18
-17	30.47	22.81	0.01205	2.284	82.98	0.43785	69.90	169.99	0.20468	0.43411	-17
-16	31.17	23.38	0.01207	2.231	82.86	0.44823	70.22	170.13	0.20541	0.43387	-16
-15	31.88	23.96	0.01208	2.180	82.75	0.45880	70.54	170.26	0.20613	0.43364	-15
-14	32.61	24.55	0.01210	2.130	82.64	0.46957	70.86	170.40	0.20685	0.43341	-14
-13	33.35	25.16	0.01212	2.081	82.53	0.48053	71.18	170.53	0.20756	0.43318	-13
-12	34.10	25.77	0.01213	2.034	82.41	0.49170	71.51	170.66	0.20828	0.43295	-12
-11	34.87	26.40	0.01215	1.988	82.30	0.50307	71.83	170.80	0.20900	0.43273	-11
-10	35.64	27.04	0.01217	1.943	82.19	0.51465	72.15	170.93	0.20971	0.43251	-10
-9	36.44	27.69	0.01218	1.900	82.07	0.52643	72.48	171.06	0.21043	0.43229	-9
-8	37.24	28.36	0.01220	1.857	81.96	0.53843	72.80	171.19	0.21114	0.43207	-8
-7	38.06	29.03	0.01222	1.816	81.85	0.55065	73.12	171.33	0.21186	0.43185	-7
-6	38.89	29.72	0.01224	1.776	81.73	0.56308	73.45	171.46	0.21257	0.43163	-6
-5	39.74	30.42	0.01225	1.737	81.62	0.57574	73.77	171.59	0.21328	0.43142	-5
-4	40.60	31.14	0.01227	1.699	81.50	0.58862	74.10	171.72	0.21399	0.43121	-4
-3	41.48	31.87	0.01229	1.662	81.39	0.60172	74.42	171.85	0.21470	0.43100	-3
-2	42.37	32.61	0.01231	1.626	81.27	0.61506	74.75	171.98	0.21541	0.43079	-2
-1	43.27	33.36	0.01232	1.591	81.16	0.62862	75.08	172.11	0.21611	0.43058	-1
0	44.19	34.13	0.01234	1.557	81.04	0.64243	75.40	172.24	0.21682	0.43038	0
1	45.12	34.91	0.01236	1.523	80.92	0.65647	75.73	172.37	0.21752	0.43018	1
2	46.07	35.70	0.01238	1.491	80.81	0.67076	76.06	172.50	0.21823	0.42997	2
3	47.04	36.51	0.01239	1.459	80.69	0.68529	76.38	172.63	0.21893	0.42977	3
4	48.02	37.34	0.01241	1.428	80.57	0.70007	76.71	172.75	0.21964	0.42958	4
5	49.01	38.17	0.01243	1.398	80.46	0.71510	77.04	172.88	0.22034	0.42938	5
6	50.02	39.03	0.01245	1.369	80.34	0.73039	77.37	173.01	0.22104	0.42918	6
7	51.05	39.89	0.01247	1.341	80.22	0.74593	77.70	173.14	0.22174	0.42899	7
8	52.09	40.77	0.01248	1.313	80.10	0.76174	78.03	173.26	0.22244	0.42880	8

**Thermodynamic Properties of R-407C - Saturation**

Temperature (°F)	Pressure (psia)		Volume (ft <sup>3</sup> /lb)		Density (lb/ft <sup>3</sup> )		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (°F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
9	53.15	41.67	0.01250	1.286	79.99	0.77781	78.35	173.39	0.22314	0.42861	9
10	54.23	42.58	0.01252	1.259	79.87	0.79415	78.68	173.51	0.22384	0.42842	10
11	55.32	43.51	0.01254	1.233	79.75	0.81077	79.01	173.64	0.22453	0.42823	11
12	56.43	44.45	0.01256	1.208	79.63	0.82766	79.35	173.76	0.22523	0.42804	12
13	57.55	45.41	0.01258	1.184	79.51	0.84482	79.68	173.89	0.22592	0.42786	13
14	58.69	46.38	0.01260	1.160	79.39	0.86227	80.01	174.01	0.22662	0.42767	14
15	59.85	47.37	0.01262	1.136	79.27	0.88001	80.34	174.14	0.22731	0.42749	15
16	61.03	48.38	0.01264	1.114	79.15	0.89804	80.67	174.26	0.22801	0.42731	16
17	62.23	49.40	0.01265	1.091	79.03	0.91636	81.00	174.38	0.22870	0.42713	17
18	63.44	50.44	0.01267	1.070	78.91	0.93498	81.34	174.51	0.22939	0.42695	18
19	64.67	51.49	0.01269	1.048	78.79	0.95390	81.67	174.63	0.23008	0.42677	19
20	65.92	52.57	0.01271	1.028	78.66	0.97313	82.00	174.75	0.23077	0.42660	20
21	67.18	53.66	0.01273	1.007	78.54	0.99266	82.34	174.87	0.23146	0.42642	21
22	68.47	54.76	0.01275	0.988	78.42	1.0125	82.67	174.99	0.23215	0.42625	22
23	69.77	55.89	0.01277	0.968	78.30	1.0327	83.01	175.11	0.23284	0.42607	23
24	71.09	57.03	0.01279	0.950	78.17	1.0532	83.34	175.23	0.23353	0.42590	24
25	72.43	58.19	0.01281	0.931	78.05	1.0740	83.68	175.35	0.23421	0.42573	25
26	73.79	59.37	0.01283	0.913	77.93	1.0951	84.02	175.47	0.23490	0.42556	26
27	75.17	60.56	0.01285	0.896	77.80	1.1166	84.35	175.59	0.23559	0.42539	27
28	76.57	61.78	0.01287	0.878	77.68	1.1384	84.69	175.71	0.23627	0.42523	28
29	77.99	63.01	0.01290	0.862	77.55	1.1606	85.03	175.82	0.23696	0.42506	29
30	79.43	64.26	0.01292	0.845	77.43	1.1831	85.37	175.94	0.23764	0.42490	30
31	80.89	65.53	0.01294	0.829	77.30	1.2059	85.70	176.06	0.23832	0.42473	31
32	82.36	66.82	0.01296	0.814	77.18	1.2291	86.04	176.17	0.23901	0.42457	32
33	83.86	68.13	0.01298	0.798	77.05	1.2527	86.38	176.29	0.23969	0.42441	33
34	85.38	69.46	0.01300	0.783	76.92	1.2766	86.72	176.40	0.24037	0.42424	34
35	86.92	70.81	0.01302	0.769	76.79	1.3010	87.06	176.52	0.24105	0.42408	35
36	88.48	72.18	0.01304	0.754	76.67	1.3256	87.40	176.63	0.24173	0.42392	36
37	90.06	73.56	0.01307	0.740	76.54	1.3507	87.74	176.75	0.24241	0.42377	37
38	91.66	74.97	0.01309	0.727	76.41	1.3761	88.09	176.86	0.24309	0.42361	38
39	93.29	76.40	0.01311	0.713	76.28	1.4020	88.43	176.97	0.24377	0.42345	39
40	94.93	77.85	0.01313	0.700	76.15	1.4282	88.77	177.08	0.24445	0.42329	40
41	96.60	79.32	0.01315	0.687	76.02	1.4549	89.11	177.19	0.24513	0.42314	41
42	98.29	80.81	0.01318	0.675	75.89	1.4819	89.46	177.30	0.24580	0.42298	42
43	100.0	82.33	0.01320	0.663	75.76	1.5093	89.80	177.41	0.24648	0.42283	43
44	101.7	83.86	0.01322	0.651	75.63	1.5372	90.15	177.52	0.24716	0.42268	44
45	103.5	85.42	0.01325	0.639	75.50	1.5655	90.49	177.63	0.24783	0.42252	45
46	105.3	87.00	0.01327	0.627	75.37	1.5942	90.84	177.74	0.24851	0.42237	46
47	107.1	88.60	0.01329	0.616	75.24	1.6234	91.18	177.85	0.24918	0.42222	47
48	108.9	90.22	0.01332	0.605	75.10	1.6530	91.53	177.95	0.24986	0.42207	48
49	110.7	91.86	0.01334	0.594	74.97	1.6830	91.88	178.06	0.25053	0.42192	49
50	112.6	93.53	0.01336	0.584	74.84	1.7135	92.23	178.17	0.25121	0.42177	50
51	114.5	95.22	0.01339	0.573	74.70	1.7444	92.57	178.27	0.25188	0.42162	51
52	116.4	96.94	0.01341	0.563	74.57	1.7758	92.92	178.38	0.25256	0.42147	52
53	118.4	98.67	0.01344	0.553	74.43	1.8077	93.27	178.48	0.25323	0.42132	53
54	120.3	100.4	0.01346	0.543	74.29	1.8401	93.62	178.58	0.25390	0.42118	54
55	122.3	102.2	0.01349	0.534	74.16	1.8729	93.97	178.68	0.25457	0.42103	55
56	124.3	104.0	0.01351	0.525	74.02	1.9062	94.32	178.79	0.25525	0.42088	56
57	126.4	105.9	0.01354	0.515	73.88	1.9400	94.68	178.89	0.25592	0.42074	57
58	128.4	107.7	0.01356	0.506	73.75	1.9744	95.03	178.99	0.25659	0.42059	58
59	130.5	109.6	0.01359	0.498	73.61	2.0092	95.38	179.09	0.25726	0.42044	59
60	132.6	111.5	0.01361	0.489	73.47	2.0446	95.74	179.19	0.25793	0.42030	60
61	134.8	113.4	0.01364	0.481	73.33	2.0804	96.09	179.28	0.25860	0.42015	61

**Thermodynamic Properties of R-407C - Saturation**

Temperature (°F)	Pressure (psia)		Volume (ft <sup>3</sup> /lb)		Density (lb/ft <sup>3</sup> )		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (°F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
62	137.0	115.4	0.01366	0.472	73.19	2.1168	96.45	179.38	0.25927	0.42001	62
63	139.1	117.4	0.01369	0.464	73.05	2.1538	96.80	179.48	0.25994	0.41986	63
64	141.4	119.4	0.01372	0.456	72.91	2.1913	97.16	179.57	0.26061	0.41972	64
65	143.6	121.4	0.01374	0.449	72.76	2.2294	97.51	179.67	0.26128	0.41958	65
66	145.9	123.5	0.01377	0.441	72.62	2.2680	97.87	179.76	0.26195	0.41943	66
67	148.2	125.6	0.01380	0.433	72.48	2.3072	98.23	179.86	0.26262	0.41929	67
68	150.5	127.7	0.01383	0.426	72.34	2.3469	98.59	179.95	0.26329	0.41915	68
69	152.8	129.8	0.01385	0.419	72.19	2.3873	98.95	180.04	0.26396	0.41900	69
70	155.2	132.0	0.01388	0.412	72.05	2.4283	99.31	180.13	0.26463	0.41886	70
71	157.6	134.2	0.01391	0.405	71.90	2.4698	99.67	180.22	0.26530	0.41872	71
72	160.1	136.4	0.01394	0.398	71.75	2.5120	100.03	180.31	0.26597	0.41857	72
73	162.5	138.7	0.01397	0.391	71.61	2.5548	100.39	180.40	0.26664	0.41843	73
74	165.0	140.9	0.01399	0.385	71.46	2.5983	100.75	180.49	0.26730	0.41829	74
75	167.5	143.2	0.01402	0.378	71.31	2.6423	101.12	180.57	0.26797	0.41814	75
76	170.1	145.6	0.01405	0.372	71.16	2.6871	101.48	180.66	0.26864	0.41800	76
77	172.6	147.9	0.01408	0.366	71.01	2.7325	101.85	180.74	0.26931	0.41786	77
78	175.2	150.3	0.01411	0.360	70.86	2.7786	102.21	180.83	0.26998	0.41772	78
79	177.9	152.8	0.01414	0.354	70.71	2.8253	102.58	180.91	0.27065	0.41757	79
80	180.5	155.2	0.01417	0.348	70.56	2.8728	102.95	180.99	0.27132	0.41743	80
81	183.2	157.7	0.01420	0.342	70.41	2.9210	103.32	181.07	0.27198	0.41728	81
82	185.9	160.2	0.01424	0.337	70.25	2.9699	103.69	181.15	0.27265	0.41714	82
83	188.7	162.7	0.01427	0.331	70.10	3.0195	104.06	181.23	0.27332	0.41700	83
84	191.5	165.3	0.01430	0.326	69.94	3.0698	104.43	181.31	0.27399	0.41685	84
85	194.3	167.9	0.01433	0.320	69.79	3.1210	104.80	181.39	0.27466	0.41671	85
86	197.1	170.6	0.01436	0.315	69.63	3.1729	105.17	181.46	0.27533	0.41656	86
87	200.0	173.2	0.01439	0.310	69.47	3.2255	105.54	181.54	0.27600	0.41642	87
88	202.9	175.9	0.01443	0.305	69.31	3.2790	105.92	181.61	0.27667	0.41627	88
89	205.8	178.6	0.01446	0.300	69.16	3.3332	106.29	181.68	0.27734	0.41612	89
90	208.8	181.4	0.01449	0.295	69.00	3.3883	106.67	181.76	0.27801	0.41598	90
91	211.8	184.2	0.01453	0.290	68.83	3.4442	107.04	181.83	0.27868	0.41583	91
92	214.8	187.0	0.01456	0.286	68.67	3.5010	107.42	181.89	0.27935	0.41568	92
93	217.9	189.9	0.01460	0.281	68.51	3.5587	107.80	181.96	0.28002	0.41553	93
94	221.0	192.8	0.01463	0.276	68.35	3.6172	108.18	182.03	0.28069	0.41538	94
95	224.1	195.7	0.01467	0.272	68.18	3.6766	108.56	182.09	0.28136	0.41523	95
96	227.2	198.7	0.01470	0.268	68.02	3.7369	108.94	182.16	0.28203	0.41508	96
97	230.4	201.6	0.01474	0.263	67.85	3.7981	109.32	182.22	0.28270	0.41493	97
98	233.7	204.7	0.01478	0.259	67.68	3.8603	109.71	182.28	0.28337	0.41478	98
99	236.9	207.7	0.01481	0.255	67.51	3.9235	110.09	182.34	0.28405	0.41463	99
100	240.2	210.8	0.01485	0.251	67.34	3.9876	110.48	182.40	0.28472	0.41447	100
101	243.5	214.0	0.01489	0.247	67.17	4.0528	110.86	182.46	0.28539	0.41432	101
102	246.9	217.1	0.01493	0.243	67.00	4.1189	111.25	182.52	0.28607	0.41416	102
103	250.3	220.3	0.01496	0.239	66.83	4.1861	111.64	182.57	0.28674	0.41400	103
104	253.7	223.6	0.01500	0.235	66.65	4.2544	112.03	182.62	0.28742	0.41385	104
105	257.1	226.8	0.01504	0.231	66.48	4.3237	112.42	182.68	0.28809	0.41369	105
106	260.6	230.1	0.01508	0.228	66.30	4.3941	112.81	182.73	0.28877	0.41353	106
107	264.2	233.5	0.01512	0.224	66.12	4.4657	113.20	182.77	0.28944	0.41337	107
108	267.7	236.9	0.01516	0.220	65.94	4.5384	113.60	182.82	0.29012	0.41321	108
109	271.3	240.3	0.01521	0.217	65.76	4.6122	113.99	182.87	0.29080	0.41304	109
110	275.0	243.7	0.01525	0.213	65.58	4.6873	114.39	182.91	0.29148	0.41288	110
111	278.6	247.2	0.01529	0.210	65.40	4.7636	114.79	182.95	0.29216	0.41271	111
112	282.3	250.8	0.01533	0.207	65.22	4.8411	115.18	182.99	0.29284	0.41254	112
113	286.1	254.3	0.01538	0.203	65.03	4.9199	115.59	183.03	0.29352	0.41238	113
114	289.8	258.0	0.01542	0.200	64.84	5.0000	115.99	183.07	0.29420	0.41221	114

**Thermodynamic Properties of R-407C - Saturation**

Temperature (°F)	Pressure (psia)		Volume (ft <sup>3</sup> /lb)		Density (lb/ft <sup>3</sup> )		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (°F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
115	293.7	261.6	0.01547	0.197	64.66	5.0814	116.39	183.11	0.29488	0.41203	115
116	297.5	265.3	0.01551	0.194	64.47	5.1642	116.79	183.14	0.29556	0.41186	116
117	301.4	269.0	0.01556	0.191	64.28	5.2484	117.20	183.17	0.29625	0.41169	117
118	305.3	272.8	0.01561	0.187	64.08	5.3340	117.61	183.20	0.29693	0.41151	118
119	309.3	276.6	0.01565	0.184	63.89	5.4211	118.01	183.23	0.29762	0.41133	119
120	313.3	280.5	0.01570	0.182	63.69	5.5096	118.42	183.26	0.29831	0.41115	120
121	317.3	284.4	0.01575	0.179	63.50	5.5997	118.84	183.28	0.29900	0.41097	121
122	321.4	288.3	0.01580	0.176	63.30	5.6913	119.25	183.30	0.29969	0.41078	122
123	325.5	292.3	0.01585	0.173	63.10	5.7846	119.66	183.32	0.30038	0.41060	123
124	329.7	296.3	0.01590	0.170	62.89	5.8794	120.08	183.34	0.30107	0.41041	124
125	333.9	300.4	0.01595	0.167	62.69	5.9760	120.50	183.35	0.30176	0.41022	125
126	338.1	304.5	0.01600	0.165	62.48	6.0743	120.91	183.37	0.30246	0.41002	126
127	342.4	308.6	0.01606	0.162	62.28	6.1744	121.34	183.38	0.30315	0.40983	127
128	346.7	312.8	0.01611	0.159	62.07	6.2763	121.76	183.39	0.30385	0.40963	128
129	351.0	317.1	0.01617	0.157	61.86	6.3800	122.18	183.39	0.30455	0.40943	129
130	355.4	321.3	0.01622	0.154	61.64	6.4857	122.61	183.40	0.30525	0.40922	130
131	359.9	325.7	0.01628	0.152	61.43	6.5934	123.04	183.40	0.30595	0.40902	131
132	364.4	330.1	0.01634	0.149	61.21	6.7031	123.47	183.39	0.30666	0.40881	132
133	368.9	334.5	0.01640	0.147	60.99	6.8149	123.90	183.39	0.30737	0.40859	133
134	373.4	338.9	0.01646	0.144	60.76	6.9289	124.33	183.38	0.30807	0.40838	134
135	378.0	343.5	0.01652	0.142	60.54	7.0450	124.77	183.37	0.30878	0.40816	135
136	382.7	348.0	0.01658	0.140	60.31	7.1635	125.21	183.36	0.30950	0.40794	136
137	387.3	352.6	0.01664	0.137	60.08	7.2844	125.65	183.34	0.31021	0.40771	137
138	392.1	357.3	0.01671	0.135	59.85	7.4076	126.09	183.32	0.31093	0.40748	138
139	396.8	362.0	0.01678	0.133	59.61	7.5334	126.53	183.30	0.31165	0.40725	139
140	401.7	366.8	0.01684	0.131	59.37	7.6618	126.98	183.27	0.31237	0.40701	140
141	406.5	371.6	0.01691	0.128	59.13	7.7929	127.43	183.24	0.31309	0.40677	141
142	411.4	376.4	0.01698	0.126	58.89	7.9268	127.88	183.21	0.31382	0.40652	142
143	416.3	381.3	0.01705	0.124	58.64	8.0635	128.34	183.17	0.31455	0.40627	143
144	421.3	386.3	0.01713	0.122	58.39	8.2033	128.80	183.13	0.31528	0.40602	144
145	426.4	391.3	0.01720	0.120	58.14	8.3461	129.26	183.09	0.31602	0.40576	145
146	431.4	396.4	0.01728	0.118	57.88	8.4922	129.72	183.04	0.31676	0.40549	146
147	436.5	401.5	0.01736	0.116	57.62	8.6416	130.19	182.98	0.31750	0.40522	147
148	441.7	406.7	0.01744	0.114	57.35	8.7945	130.66	182.93	0.31825	0.40494	148
149	446.9	411.9	0.01752	0.112	57.08	8.9510	131.13	182.86	0.31900	0.40466	149
150	452.2	417.2	0.01760	0.110	56.81	9.1113	131.61	182.80	0.31975	0.40437	150
151	457.5	422.5	0.01769	0.108	56.53	9.2755	132.09	182.72	0.32051	0.40408	151
152	462.8	427.9	0.01778	0.106	56.25	9.4439	132.57	182.65	0.32128	0.40378	152
153	468.2	433.4	0.01787	0.104	55.96	9.6165	133.06	182.56	0.32204	0.40347	153
154	473.7	438.9	0.01796	0.102	55.67	9.7937	133.55	182.47	0.32282	0.40315	154
155	479.1	444.5	0.01806	0.100	55.37	9.9755	134.05	182.38	0.32360	0.40283	155
156	484.7	450.1	0.01816	0.098	55.07	10.162	134.55	182.28	0.32438	0.40249	156
157	490.3	455.8	0.01826	0.097	54.76	10.354	135.06	182.17	0.32517	0.40215	157
158	495.9	461.6	0.01837	0.095	54.44	10.552	135.57	182.06	0.32597	0.40180	158
159	501.6	467.4	0.01848	0.093	54.12	10.755	136.08	181.93	0.32677	0.40144	159
160	507.3	473.3	0.01859	0.091	53.79	10.965	136.61	181.80	0.32758	0.40107	160
161	513.0	479.2	0.01871	0.089	53.45	11.181	137.13	181.67	0.32840	0.40069	161
162	518.9	485.2	0.01883	0.088	53.11	11.403	137.67	181.52	0.32923	0.40029	162
163	524.7	491.3	0.01896	0.086	52.75	11.634	138.21	181.37	0.33007	0.39989	163
164	530.6	497.5	0.01909	0.084	52.39	11.872	138.76	181.20	0.33091	0.39947	164
165	536.6	503.7	0.01922	0.083	52.02	12.118	139.32	181.03	0.33177	0.39903	165
166	542.6	510.0	0.01937	0.081	51.63	12.373	139.88	180.84	0.33264	0.39858	166
167	548.7	516.4	0.01952	0.079	51.24	12.638	140.45	180.64	0.33352	0.39811	167

**Thermodynamic Properties of R-407C - Saturation**

Temperature (°F)	Pressure (psia)		Volume (ft <sup>3</sup> /lb)		Density (lb/ft <sup>3</sup> )		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (°F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
168	554.8	522.8	0.01967	0.077	50.83	12.914	141.04	180.43	0.33442	0.39763	168
169	561.0	529.3	0.01984	0.076	50.41	13.200	141.63	180.20	0.33533	0.39712	169
170	567.2	535.9	0.02001	0.074	49.97	13.499	142.24	179.96	0.33625	0.39660	170
171	573.4	542.6	0.02020	0.072	49.52	13.812	142.86	179.71	0.33720	0.39605	171
172	579.7	549.4	0.02039	0.071	49.04	14.139	143.49	179.43	0.33816	0.39547	172
173	586.1	556.2	0.02060	0.069	48.55	14.483	144.14	179.14	0.33915	0.39486	173
174	592.4	563.2	0.02082	0.067	48.04	14.844	144.80	178.82	0.34017	0.39422	174
175	598.9	570.2	0.02106	0.066	47.49	15.227	145.49	178.48	0.34121	0.39355	175
176	605.4	577.4	0.02131	0.064	46.92	15.633	146.20	178.11	0.34229	0.39283	176
177	611.9	584.6	0.02159	0.062	46.31	16.065	146.94	177.71	0.34340	0.39207	177
178	618.4	592.0	0.02190	0.061	45.67	16.529	147.71	177.27	0.34457	0.39125	178
179	625.0	599.5	0.02224	0.059	44.97	17.029	148.51	176.79	0.34579	0.39037	179
180	631.6	607.1	0.02262	0.057	44.21	17.574	149.37	176.26	0.34708	0.38940	180
181	638.2	614.8	0.02306	0.055	43.37	18.173	150.28	175.66	0.34847	0.38835	181
182	644.8	622.8	0.02357	0.053	42.44	18.842	151.27	174.98	0.34997	0.38716	182
183	651.4	630.9	0.02418	0.051	41.36	19.604	152.38	174.19	0.35165	0.38581	183
184	657.9	639.3	0.02496	0.049	40.06	20.498	153.66	173.26	0.35360	0.38423	184
185	664.1	660.6	0.02605	0.028	38.38	35.336	155.26	157.65	0.35603	0.35977	185
186	669.8	667.8	0.02787	0.030	35.88	33.860	157.56	159.23	0.35955	0.36216	186