



Forane[®] 407A

(20.0% R-32, 40.0% R-125, 40.0% 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-407A - Saturation

Temperature (°F)	Pressure (psia)		Volume (ft ³ /lb)		Density (lb/ft ³)		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (°F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
-150	0.330	0.158	0.01018	232.81	98.23	0.00430	29.67	145.53	0.09676	0.48019	-150
-149	0.348	0.168	0.01019	220.26	98.13	0.00454	29.98	145.67	0.09774	0.47935	-149
-148	0.367	0.178	0.01020	208.48	98.02	0.00480	30.28	145.81	0.09872	0.47852	-148
-147	0.386	0.188	0.01021	197.42	97.92	0.00507	30.58	145.95	0.09969	0.47771	-147
-146	0.406	0.199	0.01022	187.03	97.81	0.00535	30.89	146.09	0.10066	0.47690	-146
-145	0.427	0.211	0.01024	177.26	97.71	0.00564	31.19	146.23	0.10163	0.47610	-145
-144	0.449	0.223	0.01025	168.08	97.60	0.00595	31.50	146.38	0.10259	0.47530	-144
-143	0.472	0.236	0.01026	159.44	97.50	0.00627	31.80	146.52	0.10355	0.47452	-143
-142	0.496	0.249	0.01027	151.30	97.40	0.00661	32.10	146.66	0.10451	0.47375	-142
-141	0.520	0.264	0.01028	143.65	97.29	0.00696	32.40	146.80	0.10546	0.47298	-141
-140	0.546	0.278	0.01029	136.43	97.19	0.00733	32.71	146.94	0.10641	0.47223	-140
-139	0.573	0.294	0.01030	129.63	97.08	0.00771	33.01	147.08	0.10735	0.47148	-139
-138	0.602	0.310	0.01031	123.22	96.98	0.00812	33.31	147.22	0.10829	0.47074	-138
-137	0.631	0.327	0.01032	117.18	96.88	0.00853	33.61	147.37	0.10923	0.47000	-137
-136	0.661	0.345	0.01033	111.47	96.77	0.00897	33.92	147.51	0.11017	0.46928	-136
-135	0.693	0.363	0.01035	106.08	96.67	0.00943	34.22	147.65	0.11110	0.46856	-135
-134	0.726	0.383	0.01036	101.00	96.57	0.00990	34.52	147.79	0.11203	0.46786	-134
-133	0.760	0.403	0.01037	96.19	96.46	0.01040	34.82	147.93	0.11295	0.46716	-133
-132	0.796	0.424	0.01038	91.65	96.36	0.01091	35.12	148.08	0.11387	0.46646	-132
-131	0.833	0.446	0.01039	87.35	96.25	0.01145	35.43	148.22	0.11479	0.46578	-131
-130	0.872	0.470	0.01040	83.29	96.15	0.01201	35.73	148.36	0.11571	0.46510	-130
-129	0.912	0.494	0.01041	79.44	96.05	0.01259	36.03	148.50	0.11662	0.46443	-129
-128	0.953	0.519	0.01042	75.80	95.94	0.01319	36.33	148.65	0.11753	0.46377	-128
-127	0.997	0.545	0.01043	72.35	95.84	0.01382	36.63	148.79	0.11843	0.46311	-127
-126	1.041	0.573	0.01045	69.09	95.74	0.01448	36.93	148.93	0.11934	0.46247	-126
-125	1.088	0.601	0.01046	65.99	95.63	0.01515	37.23	149.08	0.12024	0.46182	-125
-124	1.136	0.631	0.01047	63.05	95.53	0.01586	37.53	149.22	0.12113	0.46119	-124
-123	1.186	0.662	0.01048	60.27	95.43	0.01659	37.83	149.36	0.12203	0.46056	-123
-122	1.238	0.694	0.01049	57.63	95.32	0.01735	38.13	149.50	0.12292	0.45994	-122
-121	1.291	0.728	0.01050	55.12	95.22	0.01814	38.44	149.65	0.12381	0.45933	-121
-120	1.347	0.763	0.01051	52.74	95.12	0.01896	38.74	149.79	0.12470	0.45872	-120
-119	1.405	0.799	0.01053	50.48	95.01	0.01981	39.04	149.94	0.12558	0.45812	-119
-118	1.464	0.837	0.01054	48.33	94.91	0.02069	39.34	150.08	0.12646	0.45753	-118
-117	1.526	0.877	0.01055	46.29	94.81	0.02161	39.64	150.22	0.12734	0.45694	-117
-116	1.590	0.917	0.01056	44.34	94.70	0.02255	39.94	150.37	0.12821	0.45636	-116
-115	1.656	0.960	0.01057	42.50	94.60	0.02353	40.24	150.51	0.12909	0.45579	-115
-114	1.724	1.004	0.01058	40.74	94.49	0.02455	40.54	150.65	0.12996	0.45522	-114
-113	1.795	1.050	0.01059	39.07	94.39	0.02560	40.84	150.80	0.13082	0.45466	-113
-112	1.868	1.097	0.01061	37.47	94.29	0.02669	41.14	150.94	0.13169	0.45410	-112
-111	1.943	1.147	0.01062	35.96	94.18	0.02781	41.44	151.09	0.13255	0.45355	-111
-110	2.022	1.198	0.01063	34.51	94.08	0.02898	41.74	151.23	0.13341	0.45301	-110
-109	2.102	1.251	0.01064	33.13	93.98	0.03018	42.04	151.37	0.13427	0.45247	-109
-108	2.185	1.306	0.01065	31.82	93.87	0.03143	42.34	151.52	0.13513	0.45194	-108
-107	2.271	1.363	0.01067	30.57	93.77	0.03272	42.64	151.66	0.13598	0.45141	-107
-106	2.360	1.422	0.01068	29.37	93.66	0.03405	42.94	151.81	0.13683	0.45089	-106
-105	2.452	1.483	0.01069	28.23	93.56	0.03542	43.24	151.95	0.13768	0.45038	-105
-104	2.546	1.547	0.01070	27.14	93.46	0.03684	43.54	152.09	0.13852	0.44987	-104
-103	2.644	1.613	0.01071	26.11	93.35	0.03831	43.85	152.24	0.13937	0.44937	-103
-102	2.744	1.681	0.01072	25.11	93.25	0.03982	44.15	152.38	0.14021	0.44887	-102
-101	2.848	1.751	0.01074	24.16	93.14	0.04138	44.45	152.53	0.14105	0.44837	-101
-100	2.955	1.824	0.01075	23.26	93.04	0.04300	44.75	152.67	0.14188	0.44789	-100
-99	3.065	1.899	0.01076	22.39	92.94	0.04466	45.05	152.82	0.14272	0.44740	-99
-98	3.178	1.977	0.01077	21.56	92.83	0.04637	45.35	152.96	0.14355	0.44693	-98

Thermodynamic Properties of R-407A - Saturation

Temperature (°F)	Pressure (psia)		Volume (ft ³ /lb)		Density (lb/ft ³)		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (°F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
-97	3.295	2.057	0.01078	20.77	92.73	0.04814	45.65	153.10	0.14438	0.44645	-97
-96	3.416	2.140	0.01080	20.01	92.62	0.04997	45.95	153.25	0.14521	0.44599	-96
-95	3.540	2.226	0.01081	19.29	92.52	0.05185	46.25	153.39	0.14604	0.44552	-95
-94	3.667	2.315	0.01082	18.59	92.41	0.05378	46.55	153.54	0.14686	0.44507	-94
-93	3.799	2.407	0.01083	17.93	92.31	0.05578	46.85	153.68	0.14768	0.44461	-93
-92	3.934	2.501	0.01085	17.29	92.20	0.05783	47.16	153.83	0.14850	0.44417	-92
-91	4.073	2.599	0.01086	16.68	92.10	0.05995	47.46	153.97	0.14932	0.44372	-91
-90	4.216	2.700	0.01087	16.10	92.00	0.06212	47.76	154.11	0.15013	0.44329	-90
-89	4.364	2.804	0.01088	15.54	91.89	0.06437	48.06	154.26	0.15095	0.44285	-89
-88	4.515	2.911	0.01090	15.00	91.79	0.06667	48.36	154.40	0.15176	0.44242	-88
-87	4.671	3.022	0.01091	14.48	91.68	0.06905	48.66	154.55	0.15257	0.44200	-87
-86	4.831	3.136	0.01092	13.99	91.57	0.07149	48.97	154.69	0.15338	0.44158	-86
-85	4.995	3.253	0.01093	13.51	91.47	0.07400	49.27	154.83	0.15418	0.44116	-85
-84	5.164	3.375	0.01095	13.06	91.36	0.07658	49.57	154.98	0.15499	0.44075	-84
-83	5.338	3.499	0.01096	12.62	91.26	0.07923	49.87	155.12	0.15579	0.44035	-83
-82	5.516	3.628	0.01097	12.20	91.15	0.08196	50.17	155.27	0.15659	0.43995	-82
-81	5.699	3.761	0.01098	11.80	91.05	0.08476	50.48	155.41	0.15739	0.43955	-81
-80	5.887	3.897	0.01100	11.41	90.94	0.08764	50.78	155.55	0.15819	0.43915	-80
-79	6.080	4.037	0.01101	11.04	90.84	0.09060	51.08	155.70	0.15898	0.43876	-79
-78	6.278	4.182	0.01102	10.68	90.73	0.09363	51.38	155.84	0.15977	0.43838	-78
-77	6.481	4.331	0.01104	10.34	90.62	0.09675	51.69	155.98	0.16056	0.43800	-77
-76	6.689	4.484	0.01105	10.01	90.52	0.09995	51.99	156.13	0.16135	0.43762	-76
-75	6.903	4.641	0.01106	9.686	90.41	0.10324	52.29	156.27	0.16214	0.43725	-75
-74	7.123	4.803	0.01107	9.380	90.31	0.10661	52.60	156.41	0.16293	0.43688	-74
-73	7.347	4.969	0.01109	9.085	90.20	0.11007	52.90	156.56	0.16371	0.43651	-73
-72	7.578	5.140	0.01110	8.801	90.09	0.11362	53.20	156.70	0.16449	0.43615	-72
-71	7.814	5.316	0.01111	8.528	89.99	0.11726	53.51	156.84	0.16527	0.43579	-71
-70	8.057	5.497	0.01113	8.265	89.88	0.12100	53.81	156.99	0.16605	0.43544	-70
-69	8.305	5.683	0.01114	8.011	89.77	0.12482	54.11	157.13	0.16683	0.43508	-69
-68	8.559	5.873	0.01115	7.767	89.67	0.12875	54.42	157.27	0.16761	0.43474	-68
-67	8.820	6.069	0.01117	7.532	89.56	0.13277	54.72	157.41	0.16838	0.43439	-67
-66	9.087	6.270	0.01118	7.305	89.45	0.13689	55.03	157.56	0.16915	0.43405	-66
-65	9.360	6.477	0.01119	7.086	89.34	0.14112	55.33	157.70	0.16992	0.43372	-65
-64	9.640	6.689	0.01121	6.876	89.24	0.14544	55.63	157.84	0.17069	0.43338	-64
-63	9.927	6.906	0.01122	6.672	89.13	0.14988	55.94	157.98	0.17146	0.43305	-63
-62	10.22	7.129	0.01123	6.476	89.02	0.15442	56.24	158.13	0.17223	0.43273	-62
-61	10.52	7.358	0.01125	6.287	88.91	0.15906	56.55	158.27	0.17299	0.43241	-61
-60	10.83	7.593	0.01126	6.104	88.81	0.16382	56.85	158.41	0.17376	0.43209	-60
-59	11.14	7.834	0.01127	5.928	88.70	0.16870	57.16	158.55	0.17452	0.43177	-59
-58	11.46	8.081	0.01129	5.758	88.59	0.17368	57.47	158.69	0.17528	0.43146	-58
-57	11.79	8.334	0.01130	5.593	88.48	0.17879	57.77	158.83	0.17604	0.43115	-57
-56	12.13	8.593	0.01132	5.435	88.37	0.18401	58.08	158.98	0.17679	0.43084	-56
-55	12.47	8.859	0.01133	5.281	88.26	0.18935	58.38	159.12	0.17755	0.43054	-55
-54	12.82	9.132	0.01134	5.133	88.15	0.19482	58.69	159.26	0.17830	0.43024	-54
-53	13.18	9.411	0.01136	4.990	88.04	0.20041	59.00	159.40	0.17906	0.42994	-53
-52	13.55	9.697	0.01137	4.852	87.94	0.20612	59.30	159.54	0.17981	0.42964	-52
-51	13.93	9.990	0.01139	4.718	87.83	0.21197	59.61	159.68	0.18056	0.42935	-51
-50	14.31	10.29	0.01140	4.588	87.72	0.21794	59.92	159.82	0.18131	0.42906	-50
-49	14.70	10.60	0.01142	4.463	87.61	0.22405	60.22	159.96	0.18205	0.42878	-49
-48	15.10	10.91	0.01143	4.342	87.50	0.23029	60.53	160.10	0.18280	0.42850	-48
-47	15.51	11.23	0.01144	4.225	87.39	0.23667	60.84	160.24	0.18354	0.42822	-47
-46	15.93	11.56	0.01146	4.112	87.28	0.24319	61.15	160.38	0.18429	0.42794	-46
-45	16.36	11.90	0.01147	4.002	87.17	0.24985	61.46	160.52	0.18503	0.42766	-45

Thermodynamic Properties of R-407A - Saturation

Temperature (F)	Pressure (psia)		Volume (ft ³ /lb)		Density (lb/ft ³)		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
-44	16.79	12.24	0.01149	3.896	87.06	0.25666	61.76	160.66	0.18577	0.42739	-44
-43	17.24	12.60	0.01150	3.794	86.95	0.26361	62.07	160.80	0.18651	0.42712	-43
-42	17.69	12.96	0.01152	3.694	86.84	0.27071	62.38	160.94	0.18725	0.42686	-42
-41	18.15	13.33	0.01153	3.598	86.72	0.27796	62.69	161.08	0.18798	0.42659	-41
-40	18.62	13.70	0.01155	3.504	86.61	0.28536	63.00	161.21	0.18872	0.42633	-40
-39	19.11	14.09	0.01156	3.414	86.50	0.29292	63.31	161.35	0.18945	0.42608	-39
-38	19.60	14.48	0.01158	3.326	86.39	0.30063	63.62	161.49	0.19019	0.42582	-38
-37	20.10	14.89	0.01159	3.242	86.28	0.30850	63.93	161.63	0.19092	0.42557	-37
-36	20.61	15.30	0.01161	3.159	86.17	0.31654	64.24	161.77	0.19165	0.42532	-36
-35	21.13	15.72	0.01162	3.079	86.05	0.32474	64.55	161.90	0.19238	0.42507	-35
-34	21.67	16.15	0.01164	3.002	85.94	0.33311	64.86	162.04	0.19310	0.42482	-34
-33	22.21	16.59	0.01165	2.927	85.83	0.34164	65.17	162.18	0.19383	0.42458	-33
-32	22.76	17.03	0.01167	2.854	85.72	0.35035	65.48	162.31	0.19456	0.42434	-32
-31	23.33	17.49	0.01168	2.784	85.60	0.35923	65.79	162.45	0.19528	0.42410	-31
-30	23.90	17.96	0.01170	2.715	85.49	0.36829	66.11	162.59	0.19600	0.42386	-30
-29	24.49	18.44	0.01171	2.649	85.38	0.37753	66.42	162.72	0.19673	0.42363	-29
-28	25.08	18.92	0.01173	2.584	85.27	0.38695	66.73	162.86	0.19745	0.42339	-28
-27	25.69	19.42	0.01174	2.522	85.15	0.39656	67.04	163.00	0.19817	0.42316	-27
-26	26.31	19.93	0.01176	2.461	85.04	0.40635	67.35	163.13	0.19889	0.42294	-26
-25	26.94	20.45	0.01178	2.402	84.92	0.41634	67.67	163.27	0.19960	0.42271	-25
-24	27.59	20.98	0.01179	2.345	84.81	0.42651	67.98	163.40	0.20032	0.42249	-24
-23	28.24	21.51	0.01181	2.289	84.69	0.43688	68.29	163.54	0.20104	0.42227	-23
-22	28.91	22.06	0.01182	2.235	84.58	0.44745	68.61	163.67	0.20175	0.42205	-22
-21	29.59	22.62	0.01184	2.182	84.46	0.45822	68.92	163.80	0.20246	0.42183	-21
-20	30.28	23.20	0.01186	2.131	84.35	0.46919	69.24	163.94	0.20317	0.42161	-20
-19	30.98	23.78	0.01187	2.082	84.23	0.48037	69.55	164.07	0.20389	0.42140	-19
-18	31.70	24.37	0.01189	2.034	84.12	0.49176	69.87	164.20	0.20460	0.42119	-18
-17	32.43	24.98	0.01190	1.987	84.00	0.50336	70.18	164.34	0.20531	0.42098	-17
-16	33.17	25.60	0.01192	1.941	83.89	0.51517	70.50	164.47	0.20601	0.42077	-16
-15	33.93	26.23	0.01194	1.897	83.77	0.52721	70.81	164.60	0.20672	0.42057	-15
-14	34.69	26.87	0.01195	1.854	83.65	0.53946	71.13	164.74	0.20743	0.42036	-14
-13	35.48	27.52	0.01197	1.812	83.54	0.55194	71.44	164.87	0.20813	0.42016	-13
-12	36.27	28.19	0.01199	1.771	83.42	0.56464	71.76	165.00	0.20884	0.41996	-12
-11	37.08	28.87	0.01201	1.731	83.30	0.57758	72.08	165.13	0.20954	0.41976	-11
-10	37.90	29.56	0.01202	1.693	83.18	0.59074	72.39	165.26	0.21024	0.41957	-10
-9	38.74	30.26	0.01204	1.655	83.07	0.60415	72.71	165.39	0.21094	0.41937	-9
-8	39.59	30.98	0.01206	1.619	82.95	0.61779	73.03	165.52	0.21164	0.41918	-8
-7	40.46	31.71	0.01207	1.583	82.83	0.63168	73.35	165.65	0.21234	0.41899	-7
-6	41.34	32.45	0.01209	1.548	82.71	0.64581	73.67	165.78	0.21304	0.41880	-6
-5	42.23	33.21	0.01211	1.515	82.59	0.66019	73.99	165.91	0.21374	0.41861	-5
-4	43.14	33.98	0.01213	1.482	82.47	0.67482	74.30	166.04	0.21443	0.41842	-4
-3	44.06	34.77	0.01214	1.450	82.35	0.68971	74.62	166.17	0.21513	0.41824	-3
-2	45.00	35.57	0.01216	1.419	82.23	0.70486	74.94	166.30	0.21582	0.41806	-2
-1	45.96	36.38	0.01218	1.388	82.11	0.72027	75.26	166.43	0.21652	0.41788	-1
0	46.93	37.21	0.01220	1.359	81.99	0.73594	75.58	166.55	0.21721	0.41770	0
1	47.91	38.05	0.01221	1.330	81.87	0.75189	75.91	166.68	0.21790	0.41752	1
2	48.91	38.90	0.01223	1.302	81.75	0.76810	76.23	166.81	0.21860	0.41734	2
3	49.93	39.77	0.01225	1.275	81.63	0.78460	76.55	166.93	0.21929	0.41716	3
4	50.97	40.66	0.01227	1.248	81.51	0.80137	76.87	167.06	0.21998	0.41699	4
5	52.01	41.56	0.01229	1.222	81.39	0.81843	77.19	167.19	0.22067	0.41682	5
6	53.08	42.48	0.01231	1.197	81.27	0.83577	77.51	167.31	0.22135	0.41665	6
7	54.16	43.41	0.01232	1.172	81.14	0.85341	77.84	167.44	0.22204	0.41648	7
8	55.26	44.36	0.01234	1.148	81.02	0.87134	78.16	167.56	0.22273	0.41631	8

Thermodynamic Properties of R-407A - Saturation

Temperature (F)	Pressure (psia)		Volume (ft ³ /lb)		Density (lb/ft ³)		Enthalpy (Btu/lb)		Entropy (Btu/(lb R))		Temperature (F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
9	56.38	45.32	0.01236	1.124	80.90	0.88957	78.49	167.69	0.22341	0.41614	9
10	57.51	46.30	0.01238	1.101	80.77	0.90810	78.81	167.81	0.22410	0.41597	10
11	58.66	47.30	0.01240	1.079	80.65	0.92694	79.13	167.93	0.22478	0.41581	11
12	59.83	48.31	0.01242	1.057	80.53	0.94609	79.46	168.06	0.22547	0.41565	12
13	61.02	49.34	0.01244	1.036	80.40	0.96556	79.78	168.18	0.22615	0.41548	13
14	62.22	50.38	0.01246	1.015	80.28	0.98534	80.11	168.30	0.22683	0.41532	14
15	63.44	51.44	0.01248	0.995	80.15	1.0054	80.44	168.42	0.22751	0.41516	15
16	64.68	52.52	0.01250	0.975	80.03	1.0259	80.76	168.54	0.22820	0.41500	16
17	65.94	53.62	0.01252	0.955	79.90	1.0466	81.09	168.67	0.22888	0.41485	17
18	67.22	54.74	0.01254	0.937	79.77	1.0677	81.42	168.79	0.22956	0.41469	18
19	68.51	55.87	0.01256	0.918	79.65	1.0892	81.74	168.91	0.23023	0.41454	19
20	69.82	57.02	0.01258	0.900	79.52	1.1110	82.07	169.03	0.23091	0.41438	20
21	71.16	58.19	0.01260	0.883	79.39	1.1331	82.40	169.15	0.23159	0.41423	21
22	72.51	59.37	0.01262	0.865	79.27	1.1556	82.73	169.26	0.23227	0.41408	22
23	73.88	60.58	0.01264	0.849	79.14	1.1784	83.06	169.38	0.23294	0.41393	23
24	75.27	61.80	0.01266	0.832	79.01	1.2016	83.39	169.50	0.23362	0.41378	24
25	76.68	63.04	0.01268	0.816	78.88	1.2252	83.72	169.62	0.23430	0.41363	25
26	78.11	64.30	0.01270	0.801	78.75	1.2492	84.05	169.73	0.23497	0.41348	26
27	79.56	65.58	0.01272	0.785	78.62	1.2735	84.38	169.85	0.23564	0.41333	27
28	81.03	66.88	0.01274	0.770	78.49	1.2982	84.71	169.97	0.23632	0.41319	28
29	82.52	68.20	0.01276	0.756	78.36	1.3233	85.04	170.08	0.23699	0.41304	29
30	84.03	69.54	0.01278	0.741	78.23	1.3488	85.38	170.20	0.23766	0.41290	30
31	85.57	70.90	0.01280	0.727	78.10	1.3746	85.71	170.31	0.23833	0.41275	31
32	87.12	72.28	0.01283	0.714	77.97	1.4009	86.04	170.43	0.23901	0.41261	32
33	88.69	73.68	0.01285	0.700	77.84	1.4276	86.38	170.54	0.23968	0.41247	33
34	90.29	75.10	0.01287	0.687	77.70	1.4547	86.71	170.65	0.24035	0.41233	34
35	91.91	76.54	0.01289	0.675	77.57	1.4822	87.05	170.76	0.24102	0.41219	35
36	93.55	78.00	0.01291	0.662	77.44	1.5102	87.38	170.88	0.24169	0.41205	36
37	95.21	79.48	0.01294	0.650	77.30	1.5386	87.72	170.99	0.24235	0.41191	37
38	96.89	80.99	0.01296	0.638	77.17	1.5674	88.05	171.10	0.24302	0.41177	38
39	98.59	82.51	0.01298	0.626	77.03	1.5966	88.39	171.21	0.24369	0.41163	39
40	100.3	84.06	0.01300	0.615	76.90	1.6264	88.73	171.32	0.24436	0.41150	40
41	102.1	85.63	0.01303	0.604	76.76	1.6565	89.07	171.43	0.24503	0.41136	41
42	103.8	87.22	0.01305	0.593	76.63	1.6871	89.40	171.54	0.24569	0.41123	42
43	105.6	88.84	0.01307	0.582	76.49	1.7182	89.74	171.64	0.24636	0.41109	43
44	107.5	90.47	0.01310	0.572	76.35	1.7498	90.08	171.75	0.24702	0.41096	44
45	109.3	92.13	0.01312	0.561	76.21	1.7818	90.42	171.86	0.24769	0.41082	45
46	111.2	93.82	0.01315	0.551	76.08	1.8143	90.76	171.96	0.24836	0.41069	46
47	113.1	95.52	0.01317	0.541	75.94	1.8473	91.10	172.07	0.24902	0.41056	47
48	115.0	97.25	0.01319	0.532	75.80	1.8808	91.45	172.17	0.24968	0.41042	48
49	116.9	99.00	0.01322	0.522	75.66	1.9149	91.79	172.28	0.25035	0.41029	49
50	118.9	100.8	0.01324	0.513	75.52	1.9494	92.13	172.38	0.25101	0.41016	50
51	120.9	102.6	0.01327	0.504	75.38	1.9844	92.47	172.48	0.25168	0.41003	51
52	122.9	104.4	0.01329	0.495	75.24	2.0200	92.82	172.59	0.25234	0.40990	52
53	124.9	106.3	0.01332	0.486	75.09	2.0561	93.16	172.69	0.25300	0.40977	53
54	127.0	108.1	0.01334	0.478	74.95	2.0928	93.51	172.79	0.25366	0.40964	54
55	129.1	110.0	0.01337	0.469	74.81	2.1300	93.85	172.89	0.25433	0.40951	55
56	131.2	112.0	0.01339	0.461	74.66	2.1678	94.20	172.99	0.25499	0.40938	56
57	133.3	113.9	0.01342	0.453	74.52	2.2061	94.55	173.09	0.25565	0.40925	57
58	135.5	115.9	0.01345	0.445	74.37	2.2450	94.89	173.18	0.25631	0.40912	58
59	137.7	117.9	0.01347	0.438	74.23	2.2845	95.24	173.28	0.25697	0.40899	59
60	139.9	119.9	0.01350	0.430	74.08	2.3246	95.59	173.38	0.25764	0.40887	60
61	142.1	122.0	0.01353	0.423	73.93	2.3653	95.94	173.47	0.25830	0.40874	61

Thermodynamic Properties of R-407A - Saturation

Temperature (F)	Pressure (psia)		Volume (ft ³ /lb)		Density (lb/ft ³)		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
62	144.4	124.0	0.01355	0.416	73.79	2.4065	96.29	173.57	0.25896	0.40861	62
63	146.7	126.2	0.01358	0.408	73.64	2.4485	96.64	173.66	0.25962	0.40848	63
64	149.0	128.3	0.01361	0.401	73.49	2.4910	96.99	173.75	0.26028	0.40835	64
65	151.4	130.4	0.01364	0.395	73.34	2.5342	97.35	173.85	0.26094	0.40823	65
66	153.7	132.6	0.01366	0.388	73.19	2.5780	97.70	173.94	0.26160	0.40810	66
67	156.1	134.9	0.01369	0.381	73.04	2.6225	98.05	174.03	0.26226	0.40797	67
68	158.6	137.1	0.01372	0.375	72.89	2.6676	98.41	174.12	0.26292	0.40784	68
69	161.0	139.4	0.01375	0.369	72.73	2.7134	98.76	174.21	0.26358	0.40772	69
70	163.5	141.7	0.01378	0.362	72.58	2.7599	99.12	174.30	0.26424	0.40759	70
71	166.0	144.0	0.01381	0.356	72.43	2.8072	99.47	174.38	0.26490	0.40746	71
72	168.6	146.4	0.01384	0.350	72.27	2.8551	99.83	174.47	0.26556	0.40733	72
73	171.2	148.7	0.01387	0.344	72.12	2.9037	100.19	174.55	0.26622	0.40720	73
74	173.8	151.2	0.01390	0.339	71.96	2.9531	100.55	174.64	0.26688	0.40708	74
75	176.4	153.6	0.01393	0.333	71.80	3.0032	100.91	174.72	0.26754	0.40695	75
76	179.1	156.1	0.01396	0.327	71.65	3.0541	101.27	174.80	0.26820	0.40682	76
77	181.7	158.6	0.01399	0.322	71.49	3.1057	101.63	174.89	0.26886	0.40669	77
78	184.5	161.1	0.01402	0.317	71.33	3.1581	101.99	174.97	0.26952	0.40656	78
79	187.2	163.7	0.01405	0.311	71.17	3.2113	102.35	175.05	0.27018	0.40643	79
80	190.0	166.3	0.01408	0.306	71.01	3.2654	102.71	175.12	0.27084	0.40630	80
81	192.8	168.9	0.01412	0.301	70.84	3.3202	103.08	175.20	0.27151	0.40617	81
82	195.7	171.6	0.01415	0.296	70.68	3.3759	103.44	175.28	0.27217	0.40604	82
83	198.5	174.3	0.01418	0.291	70.52	3.4324	103.81	175.35	0.27283	0.40591	83
84	201.4	177.0	0.01421	0.287	70.35	3.4898	104.18	175.43	0.27349	0.40577	84
85	204.4	179.8	0.01425	0.282	70.19	3.5481	104.54	175.50	0.27415	0.40564	85
86	207.3	182.5	0.01428	0.277	70.02	3.6072	104.91	175.57	0.27481	0.40551	86
87	210.3	185.4	0.01432	0.273	69.85	3.6673	105.28	175.64	0.27547	0.40537	87
88	213.4	188.2	0.01435	0.268	69.68	3.7283	105.65	175.71	0.27614	0.40524	88
89	216.4	191.1	0.01439	0.264	69.51	3.7903	106.02	175.78	0.27680	0.40510	89
90	219.5	194.0	0.01442	0.260	69.34	3.8532	106.40	175.85	0.27746	0.40497	90
91	222.7	197.0	0.01446	0.255	69.17	3.9171	106.77	175.91	0.27812	0.40483	91
92	225.8	200.0	0.01449	0.251	69.00	3.9819	107.14	175.98	0.27879	0.40470	92
93	229.0	203.0	0.01453	0.247	68.83	4.0478	107.52	176.04	0.27945	0.40456	93
94	232.3	206.1	0.01457	0.243	68.65	4.1148	107.90	176.10	0.28012	0.40442	94
95	235.5	209.1	0.01460	0.239	68.48	4.1828	108.27	176.16	0.28078	0.40428	95
96	238.8	212.3	0.01464	0.235	68.30	4.2518	108.65	176.22	0.28145	0.40414	96
97	242.2	215.4	0.01468	0.231	68.12	4.3220	109.03	176.28	0.28211	0.40400	97
98	245.5	218.6	0.01472	0.228	67.94	4.3932	109.41	176.34	0.28278	0.40385	98
99	248.9	221.9	0.01476	0.224	67.76	4.4657	109.79	176.39	0.28344	0.40371	99
100	252.3	225.1	0.01480	0.220	67.58	4.5392	110.17	176.44	0.28411	0.40356	100
101	255.8	228.5	0.01484	0.217	67.40	4.6140	110.56	176.50	0.28478	0.40342	101
102	259.3	231.8	0.01488	0.213	67.21	4.6900	110.94	176.55	0.28545	0.40327	102
103	262.9	235.2	0.01492	0.210	67.03	4.7672	111.33	176.60	0.28612	0.40312	103
104	266.4	238.6	0.01496	0.206	66.84	4.8457	111.72	176.64	0.28679	0.40297	104
105	270.0	242.1	0.01500	0.203	66.65	4.9254	112.10	176.69	0.28746	0.40282	105
106	273.7	245.6	0.01505	0.200	66.46	5.0065	112.49	176.73	0.28813	0.40267	106
107	277.4	249.1	0.01509	0.197	66.27	5.0889	112.88	176.77	0.28880	0.40251	107
108	281.1	252.7	0.01513	0.193	66.08	5.1728	113.28	176.82	0.28947	0.40236	108
109	284.8	256.3	0.01518	0.190	65.88	5.2580	113.67	176.85	0.29015	0.40220	109
110	288.6	259.9	0.01522	0.187	65.69	5.3446	114.06	176.89	0.29082	0.40204	110
111	292.5	263.6	0.01527	0.184	65.49	5.4327	114.46	176.93	0.29150	0.40188	111
112	296.3	267.4	0.01532	0.181	65.29	5.5224	114.86	176.96	0.29217	0.40172	112
113	300.2	271.1	0.01536	0.178	65.09	5.6136	115.26	176.99	0.29285	0.40155	113
114	304.2	274.9	0.01541	0.175	64.89	5.7063	115.66	177.02	0.29353	0.40139	114

Thermodynamic Properties of R-407A - Saturation

Temperature (F)	Pressure (psia)		Volume (ft ³ /lb)		Density (lb/ft ³)		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
115	308.2	278.8	0.01546	0.172	64.69	5.8007	116.06	177.05	0.29421	0.40122	115
116	312.2	282.7	0.01551	0.170	64.48	5.8967	116.46	177.07	0.29489	0.40105	116
117	316.2	286.6	0.01556	0.167	64.27	5.9945	116.86	177.10	0.29557	0.40088	117
118	320.3	290.6	0.01561	0.164	64.07	6.0940	117.27	177.12	0.29625	0.40070	118
119	324.5	294.6	0.01566	0.161	63.85	6.1952	117.68	177.14	0.29694	0.40053	119
120	328.7	298.7	0.01571	0.159	63.64	6.2984	118.09	177.15	0.29762	0.40035	120
121	332.9	302.8	0.01577	0.156	63.43	6.4034	118.50	177.17	0.29831	0.40017	121
122	337.1	307.0	0.01582	0.154	63.21	6.5103	118.91	177.18	0.29900	0.39998	122
123	341.4	311.2	0.01588	0.151	62.99	6.6192	119.33	177.19	0.29969	0.39979	123
124	345.8	315.4	0.01593	0.149	62.77	6.7302	119.74	177.20	0.30038	0.39960	124
125	350.1	319.7	0.01599	0.146	62.55	6.8433	120.16	177.20	0.30107	0.39941	125
126	354.6	324.0	0.01605	0.144	62.32	6.9586	120.58	177.20	0.30177	0.39922	126
127	359.0	328.4	0.01611	0.141	62.09	7.0761	121.00	177.20	0.30247	0.39902	127
128	363.5	332.8	0.01617	0.139	61.86	7.1959	121.43	177.20	0.30317	0.39882	128
129	368.1	337.3	0.01623	0.137	61.63	7.3181	121.85	177.19	0.30387	0.39861	129
130	372.6	341.8	0.01629	0.134	61.39	7.4427	122.28	177.19	0.30457	0.39840	130
131	377.3	346.4	0.01635	0.132	61.16	7.5698	122.71	177.17	0.30528	0.39819	131
132	381.9	351.0	0.01642	0.130	60.92	7.6996	123.14	177.16	0.30598	0.39798	132
133	386.7	355.7	0.01648	0.128	60.67	7.8321	123.58	177.14	0.30669	0.39776	133
134	391.4	360.4	0.01655	0.126	60.42	7.9673	124.01	177.12	0.30741	0.39753	134
135	396.2	365.2	0.01662	0.123	60.17	8.1055	124.45	177.09	0.30812	0.39731	135
136	401.0	370.0	0.01669	0.121	59.92	8.2466	124.90	177.06	0.30884	0.39707	136
137	405.9	374.9	0.01676	0.119	59.66	8.3908	125.34	177.03	0.30956	0.39684	137
138	410.9	379.8	0.01683	0.117	59.40	8.5383	125.79	176.99	0.31028	0.39660	138
139	415.8	384.7	0.01691	0.115	59.14	8.6890	126.24	176.95	0.31101	0.39635	139
140	420.9	389.8	0.01699	0.113	58.87	8.8433	126.69	176.91	0.31174	0.39610	140
141	425.9	394.8	0.01707	0.111	58.60	9.0012	127.15	176.86	0.31248	0.39584	141
142	431.0	400.0	0.01715	0.109	58.33	9.1628	127.61	176.80	0.31321	0.39558	142
143	436.2	405.2	0.01723	0.107	58.05	9.3284	128.07	176.75	0.31395	0.39531	143
144	441.4	410.4	0.01731	0.105	57.76	9.4980	128.54	176.68	0.31470	0.39503	144
145	446.6	415.7	0.01740	0.103	57.47	9.6719	129.01	176.62	0.31545	0.39475	145
146	451.9	421.0	0.01749	0.102	57.18	9.8503	129.48	176.54	0.31621	0.39446	146
147	457.3	426.4	0.01758	0.100	56.88	10.033	129.96	176.46	0.31697	0.39417	147
148	462.7	431.9	0.01768	0.098	56.57	10.221	130.44	176.38	0.31773	0.39386	148
149	468.1	437.4	0.01778	0.096	56.26	10.414	130.93	176.29	0.31850	0.39355	149
150	473.6	443.0	0.01788	0.094	55.94	10.613	131.42	176.19	0.31928	0.39323	150
151	479.1	448.7	0.01798	0.092	55.62	10.817	131.92	176.09	0.32006	0.39290	151
152	484.7	454.4	0.01809	0.091	55.29	11.028	132.42	175.98	0.32085	0.39256	152
153	490.3	460.2	0.01820	0.089	54.95	11.244	132.93	175.86	0.32165	0.39221	153
154	496.0	466.0	0.01831	0.087	54.60	11.468	133.44	175.73	0.32245	0.39185	154
155	501.7	471.9	0.01843	0.085	54.25	11.698	133.96	175.60	0.32327	0.39148	155
156	507.5	477.9	0.01856	0.084	53.88	11.937	134.48	175.46	0.32409	0.39109	156
157	513.3	483.9	0.01869	0.082	53.51	12.183	135.02	175.30	0.32492	0.39070	157
158	519.2	490.0	0.01882	0.080	53.13	12.438	135.56	175.14	0.32576	0.39028	158
159	525.1	496.2	0.01896	0.079	52.73	12.703	136.10	174.97	0.32662	0.38986	159
160	531.1	502.4	0.01911	0.077	52.32	12.977	136.66	174.78	0.32748	0.38941	160
161	537.1	508.7	0.01927	0.075	51.90	13.263	137.23	174.59	0.32836	0.38895	161
162	543.2	515.1	0.01943	0.074	51.47	13.560	137.81	174.38	0.32926	0.38847	162
163	549.3	521.6	0.01960	0.072	51.02	13.870	138.39	174.15	0.33017	0.38797	163
164	555.4	528.2	0.01978	0.070	50.55	14.195	139.00	173.91	0.33110	0.38744	164
165	561.6	534.8	0.01998	0.069	50.06	14.535	139.61	173.65	0.33205	0.38689	165
166	567.9	541.5	0.02018	0.067	49.55	14.892	140.24	173.37	0.33302	0.38631	166
167	574.2	548.3	0.02040	0.065	49.01	15.268	140.89	173.07	0.33402	0.38570	167

Thermodynamic Properties of R-407A - Saturation

Temperature (°F)	Pressure (psia)		Volume (ft ³ /lb)		Density (lb/ft ³)		Enthalpy (Btu/lb)		Entropy (Btu/(lb °R))		Temperature (°F)
	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
168	580.6	555.2	0.02064	0.064	48.45	15.666	141.56	172.75	0.33505	0.38505	168
169	586.9	562.2	0.02090	0.062	47.86	16.089	142.25	172.40	0.33611	0.38436	169
170	593.4	569.3	0.02118	0.060	47.22	16.540	142.97	172.02	0.33721	0.38362	170
171	599.9	576.6	0.02148	0.059	46.55	17.024	143.72	171.60	0.33835	0.38283	171
172	606.4	583.9	0.02182	0.057	45.82	17.546	144.50	171.14	0.33956	0.38198	172
173	612.9	591.3	0.02221	0.055	45.03	18.115	145.34	170.62	0.34083	0.38105	173
174	619.4	598.9	0.02264	0.053	44.16	18.742	146.23	170.05	0.34220	0.38002	174
175	626.0	606.7	0.02316	0.051	43.19	19.444	147.20	169.39	0.34368	0.37887	175
176	632.5	614.6	0.02378	0.049	42.05	20.250	148.29	168.63	0.34535	0.37755	176
177	638.9	622.8	0.02456	0.047	40.72	21.185	149.52	167.72	0.34725	0.37601	177
178	645.2	631.3	0.02564	0.045	39.01	22.350	151.05	166.58	0.34961	0.37410	178
179	651.0	640.3	0.02738	0.042	36.52	23.950	153.21	164.99	0.35294	0.37149	179
180	654.7	651.0	0.03171	0.037	31.53	27.217	157.60	161.73	0.35978	0.36627	180