R-407C PT Chart

Gauge & Wire

Saturation pressure in psig. Liquid = bubble point (use for subcooling), Vapor = dew point (use for superheat). * = inches of mercury vacuum.

°F	°C	Liquid	Vapor	°F	°C	Liquid	Vapor	°F	°C	Liquid	Vapor	°F	°C	Liquid	Vapor
-40	**-40.0**	**2.7**	**4.6***	8	-13.3	37.4	26.1	56	13.3	109.6	89.3	104	40.0	239.0	208.8
-39	-39.4	3.2	3.9*	9	-12.8	38.5	27.0	57	13.9	111.7	91.2	105	40.6	242.4	212.1
-38	-38.9	3.7	3.2*	**10**	**-12.2**	**39.5**	**27.9**	58	14.4	113.7	93.0	106	41.1	245.9	215.4
-37	-38.3	4.1	2.4*	11	-11.7	40.6	28.8	59	15.0	115.8	94.9	107	41.7	249.4	218.8
-36	-37.8	4.6	1.6*	12	-11.1	41.7	29.8	**60**	**15.6**	**117.9**	**96.8**	108	42.2	253.0	222.1
-35	-37.2	5.1	0.9*	13	-10.6	42.9	30.7	61	16.1	120.1	98.7	109	42.8	256.6	225.6
-34	-36.7	5.6	0.1*	14	-10.0	44.0	31.7	62	16.7	122.2	100.7	**110**	**43.3**	**260.2**	**229.0**
-33	-36.1	6.1	0.4	15	-9.4	45.2	32.7	63	17.2	124.4	102.7	111	43.9	263.9	232.5
-32	-35.6	6.6	0.8	16	-8.9	46.3	33.7	64	17.8	126.7	104.7	112	44.4	267.6	236.1
-31	-35.0	7.2	1.2	17	-8.3	47.5	34.7	65	18.3	128.9	106.7	113	45.0	271.3	239.6
-30	**-34.4**	**7.7**	**1.6**	18	-7.8	48.7	35.7	66	18.9	131.2	108.8	114	45.6	275.1	243.2
-29	-33.9	8.3	2.1	19	-7.2	50.0	36.8	67	19.4	133.5	110.9	115	46.1	278.9	246.9
-28	-33.3	8.8	2.5	**20**	**-6.7**	**51.2**	**37.9**	68	20.0	135.8	113.0	116	46.7	282.8	250.6
-27	-32.8	9.4	3.0	21	-6.1	52.5	39.0	69	20.6	138.1	115.1	117	47.2	286.7	254.3
-26	-32.2	10.0	3.5	22	-5.6	53.8	40.1	**70**	**21.1**	**140.5**	**117.3**	118	47.8	290.6	258.1
-25	-31.7	10.6	3.9	23	-5.0	55.1	41.2	71	21.7	142.9	119.5	119	48.3	294.6	261.9
-24	-31.1	11.2	4.4	24	-4.4	56.4	42.3	72	22.2	145.4	121.7	**120**	**48.9**	**298.6**	**265.8**
-23	-30.6	11.8	4.9	25	-3.9	57.7	43.5	73	22.8	147.8	124.0	121	49.4	302.6	269.6
-22	-30.0	12.4	5.4	26	-3.3	59.1	44.7	74	23.3	150.3	126.2	122	50.0	306.7	273.6
-21	-29.4	13.1	5.9	27	-2.8	60.5	45.9	75	23.9	152.8	128.5	123	50.6	310.8	277.6
-20	**-28.9**	**13.7**	**6.5**	28	-2.2	61.9	47.1	76	24.4	155.4	130.9	124	51.1	315.0	281.6
-19	-28.3	14.4	7.0	29	-1.7	63.3	48.3	77	25.0	157.9	133.2	125	51.7	319.2	285.6
-18	-27.8	15.1	7.6	**30**	**-1.1**	**64.7**	**49.6**	78	25.6	160.5	135.6	126	52.2	323.4	289.8
-17	-27.2	15.8	8.1	31	-0.6	66.2	50.8	79	26.1	163.2	138.0	127	52.8	327.7	293.9
-16	-26.7	16.5	8.7	32	0.0	67.7	52.1	**80**	**26.7**	**165.8**	**140.5**	128	53.3	332.0	298.1
-15	-26.1	17.2	9.3	33	0.6	69.2	53.4	81	27.2	168.5	143.0	129	53.9	336.3	302.3
-14	-25.6	17.9	9.9	34	1.1	70.7	54.8	82	27.8	171.2	145.5	**130**	**54.4**	**340.7**	**306.6**
-13	-25.0	18.7	10.5	35	1.7	72.2	56.1	83	28.3	174.0	148.0	131	55.0	345.2	311.0
-12	-24.4	19.4	11.1	36	2.2	73.8	57.5	84	28.9	176.8	150.6	132	55.6	349.7	315.3
-11	-23.9	20.2	11.7	37	2.8	75.4	58.9	85	29.4	179.6	153.2	133	56.1	354.2	319.8
-10	**-23.3**	**20.9**	**12.3**	38	3.3	77.0	60.3	86	30.0	182.4	155.8	134	56.7	358.7	324.2
-9	-22.8	21.7	13.0	39	3.9	78.6	61.7	87	30.6	185.3	158.5	135	57.2	363.3	328.7
-8	-22.2	22.5	13.7	**40**	**4.4**	**80.2**	**63.2**	88	31.1	188.2	161.2	136	57.8	368.0	333.3
-7	-21.7	23.4	14.3	41	5.0	81.9	64.6	89	31.7	191.1	163.9	137	58.3	372.7	337.9
-6	-21.1	24.2	15.0	42	5.6	83.6	66.1	**90**	**32.2**	**194.1**	**166.7**	138	58.9	377.4	342.6
-5	-20.6	25.0	15.7	43	6.1	85.3	67.6	91	32.8	197.1	169.5	139	59.4	382.2	347.3
-4	-20.0	25.9	16.4	44	6.7	87.0	69.2	92	33.3	200.1	172.3	**140**	**60.0**	**387.0**	**352.0**
-3	-19.4	26.8	17.2	45	7.2	88.8	70.7	93	33.9	203.2	175.2	141	60.6	391.8	356.9
-2	-18.9	27.7	17.9	46	7.8	90.6	72.3	94	34.4	206.2	178.1	142	61.1	396.7	361.7
-1	-18.3	28.6	18.7	47	8.3	92.4	73.9	95	35.0	209.4	181.0	143	61.7	401.7	366.6
0	**-17.8**	**29.5**	**19.4**	48	8.9	94.2	75.5	96	35.6	212.5	183.9	144	62.2	406.7	371.6
1	-17.2	30.4	20.2	49	9.4	96.0	77.2	97	36.1	215.7	186.9	145	62.8	411.7	376.6
2	-16.7	31.4	21.0	**50**	**10.0**	**97.9**	**78.8**	98	36.7	218.9	189.9	146	63.3	416.8	381.7
3	-16.1	32.3	21.8	51	10.6	99.8	80.5	99	37.2	222.2	193.0	147	63.9	421.9	386.8
4	-15.6	33.3	22.6	52	11.1	101.7	82.2	**100**	**37.8**	**225.5**	**196.1**	148	64.4	427.1	392.0
5	-15.0	34.3	23.5	53	11.7	103.7	84.0	101	38.3	228.8	199.2	149	65.0	432.3	397.2
6	-14.4	35.3	24.3	54	12.2	105.6	85.7	102	38.9	232.1	202.4	**150**	**65.6**	**437.5**	**402.5**
7	-13.9	36.4	25.2	55	12.8	107.6	87.5	103	39.4	235.5	205.6				

Source: calculated with CoolProp 8.1.0 (pseudo-pure fluid model).
Checked against: Arkema (max difference 0.07 psi).
Gauge pressure relative to 14.696 psia (sea level). Reference only: follow the equipment manufacturer's charging instructions.