R-404A 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**	**4.9**	**4.3**	8	-13.3	42.0	40.9	56	13.3	117.4	115.7	104	40.0	250.7	248.5
-39	-39.4	5.4	4.8	9	-12.8	43.1	42.0	57	13.9	119.5	117.8	105	40.6	254.2	252.1
-38	-38.9	5.9	5.3	**10**	**-12.2**	**44.3**	**43.1**	58	14.4	121.7	119.9	106	41.1	257.8	255.7
-37	-38.3	6.4	5.8	11	-11.7	45.4	44.3	59	15.0	123.8	122.1	107	41.7	261.4	259.3
-36	-37.8	7.0	6.3	12	-11.1	46.6	45.4	**60**	**15.6**	**126.0**	**124.2**	108	42.2	265.1	263.0
-35	-37.2	7.5	6.8	13	-10.6	47.8	46.6	61	16.1	128.2	126.4	109	42.8	268.8	266.7
-34	-36.7	8.0	7.4	14	-10.0	49.0	47.8	62	16.7	130.4	128.7	**110**	**43.3**	**272.6**	**270.4**
-33	-36.1	8.6	7.9	15	-9.4	50.2	49.0	63	17.2	132.7	130.9	111	43.9	276.3	274.2
-32	-35.6	9.2	8.5	16	-8.9	51.5	50.2	64	17.8	135.0	133.2	112	44.4	280.2	278.0
-31	-35.0	9.7	9.0	17	-8.3	52.7	51.5	65	18.3	137.3	135.5	113	45.0	284.0	281.9
-30	**-34.4**	**10.3**	**9.6**	18	-7.8	54.0	52.7	66	18.9	139.7	137.8	114	45.6	287.9	285.8
-29	-33.9	10.9	10.2	19	-7.2	55.3	54.0	67	19.4	142.0	140.2	115	46.1	291.8	289.7
-28	-33.3	11.5	10.8	**20**	**-6.7**	**56.6**	**55.3**	68	20.0	144.4	142.6	116	46.7	295.8	293.7
-27	-32.8	12.2	11.4	21	-6.1	57.9	56.6	69	20.6	146.9	145.0	117	47.2	299.8	297.7
-26	-32.2	12.8	12.0	22	-5.6	59.3	57.9	**70**	**21.1**	**149.3**	**147.4**	118	47.8	303.9	301.7
-25	-31.7	13.4	12.7	23	-5.0	60.6	59.3	71	21.7	151.8	149.9	119	48.3	308.0	305.8
-24	-31.1	14.1	13.3	24	-4.4	62.0	60.7	72	22.2	154.3	152.4	**120**	**48.9**	**312.1**	**309.9**
-23	-30.6	14.8	14.0	25	-3.9	63.4	62.1	73	22.8	156.8	154.9	121	49.4	316.3	314.1
-22	-30.0	15.4	14.6	26	-3.3	64.8	63.5	74	23.3	159.4	157.5	122	50.0	320.5	318.3
-21	-29.4	16.1	15.3	27	-2.8	66.3	64.9	75	23.9	162.0	160.1	123	50.6	324.7	322.6
-20	**-28.9**	**16.8**	**16.0**	28	-2.2	67.8	66.4	76	24.4	164.6	162.7	124	51.1	329.0	326.9
-19	-28.3	17.5	16.7	29	-1.7	69.2	67.8	77	25.0	167.3	165.3	125	51.7	333.4	331.2
-18	-27.8	18.3	17.4	**30**	**-1.1**	**70.7**	**69.3**	78	25.6	169.9	168.0	126	52.2	337.7	335.6
-17	-27.2	19.0	18.2	31	-0.6	72.3	70.8	79	26.1	172.7	170.7	127	52.8	342.2	340.0
-16	-26.7	19.8	18.9	32	0.0	73.8	72.4	**80**	**26.7**	**175.4**	**173.4**	128	53.3	346.6	344.5
-15	-26.1	20.5	19.7	33	0.6	75.4	73.9	81	27.2	178.2	176.2	129	53.9	351.1	349.0
-14	-25.6	21.3	20.4	34	1.1	77.0	75.5	82	27.8	181.0	179.0	**130**	**54.4**	**355.7**	**353.6**
-13	-25.0	22.1	21.2	35	1.7	78.6	77.1	83	28.3	183.8	181.8	131	55.0	360.3	358.2
-12	-24.4	22.9	22.0	36	2.2	80.2	78.7	84	28.9	186.7	184.7	132	55.6	364.9	362.8
-11	-23.9	23.7	22.8	37	2.8	81.8	80.3	85	29.4	189.5	187.5	133	56.1	369.6	367.5
-10	**-23.3**	**24.6**	**23.6**	38	3.3	83.5	82.0	86	30.0	192.5	190.5	134	56.7	374.3	372.3
-9	-22.8	25.4	24.5	39	3.9	85.2	83.7	87	30.6	195.4	193.4	135	57.2	379.1	377.1
-8	-22.2	26.3	25.3	**40**	**4.4**	**86.9**	**85.4**	88	31.1	198.4	196.4	136	57.8	384.0	381.9
-7	-21.7	27.1	26.2	41	5.0	88.6	87.1	89	31.7	201.4	199.4	137	58.3	388.8	386.8
-6	-21.1	28.0	27.0	42	5.6	90.4	88.8	**90**	**32.2**	**204.5**	**202.4**	138	58.9	393.7	391.7
-5	-20.6	28.9	27.9	43	6.1	92.2	90.6	91	32.8	207.6	205.5	139	59.4	398.7	396.7
-4	-20.0	29.8	28.8	44	6.7	94.0	92.4	92	33.3	210.7	208.6	**140**	**60.0**	**403.7**	**401.7**
-3	-19.4	30.8	29.8	45	7.2	95.8	94.2	93	33.9	213.8	211.8	141	60.6	408.8	406.8
-2	-18.9	31.7	30.7	46	7.8	97.6	96.0	94	34.4	217.0	214.9	142	61.1	413.9	412.0
-1	-18.3	32.7	31.6	47	8.3	99.5	97.9	95	35.0	220.2	218.1	143	61.7	419.1	417.1
0	**-17.8**	**33.7**	**32.6**	48	8.9	101.4	99.8	96	35.6	223.5	221.4	144	62.2	424.3	422.4
1	-17.2	34.7	33.6	49	9.4	103.3	101.7	97	36.1	226.7	224.6	145	62.8	429.6	427.7
2	-16.7	35.7	34.6	**50**	**10.0**	**105.3**	**103.6**	98	36.7	230.0	228.0	146	63.3	434.9	433.0
3	-16.1	36.7	35.6	51	10.6	107.2	105.6	99	37.2	233.4	231.3	147	63.9	440.3	438.4
4	-15.6	37.7	36.6	52	11.1	109.2	107.5	**100**	**37.8**	**236.8**	**234.7**	148	64.4	445.7	443.9
5	-15.0	38.8	37.7	53	11.7	111.2	109.5	101	38.3	240.2	238.1	149	65.0	451.2	449.4
6	-14.4	39.8	38.7	54	12.2	113.3	111.6	102	38.9	243.6	241.5	**150**	**65.6**	**456.8**	**455.0**
7	-13.9	40.9	39.8	55	12.8	115.3	113.6	103	39.4	247.1	245.0				

Source: calculated with CoolProp 8.1.0 (pseudo-pure fluid model).
Checked against: Arkema (max difference 0.04 psi); Chemours (max difference 0.78 psi).
Gauge pressure relative to 14.696 psia (sea level). Reference only: follow the equipment manufacturer's charging instructions.