

A-GAS[®]

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Pressure / Temperature Charts

30045 FM 2978
Magnolia, TX 77354
1.800.366.1356



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Data generated using the
REFPROP database 23, ver. 9.0
by NIST (Lemmon, Huber,
McLinden), Gaithersburg, MD

°F	°C	R-11	R-123	R-113	R-114	R-124	R-500
-40	-40	-28.4	-28.9			-22.1	-7.6
-35	-37.2	-28.1	-28.7			-20.9	-4.5
-30	-34.4	-27.8	-28.4	-29.3		-19.4	-1.1
-25	-31.7	-27.5	-28.1	-29.2		-17.8	1.3
-20	-28.9	-27.0	-27.8	-29.0		-16.0	3.3
-15	-26.1	-26.6	-27.4	-28.9		-14.0	5.5
-10	-23.3	-26.0	-27.0	-28.7		-11.8	7.9
-5	-20.6	-25.4	-26.5	-28.4		-9.3	10.6
0	-17.8	-24.7	-25.9	-28.2		-6.6	13.4
5	-15	-24.0	-25.3	-27.9		-3.6	16.6
10	-12.2	-23.1	-24.6	-27.5		-0.3	19.9
15	-9.4	-22.1	-23.8	-27.2		1.6	23.6
20	-6.7	-21.1	-22.9	-26.7		3.6	27.5
25	-3.9	-19.9	-21.9	-26.3		5.7	31.7
30	-1.1	-18.6	-20.8	-25.7		8.0	36.2
35	1.7	-17.2	-19.5	-25.1	-2.1	10.5	41.1
40	4.4	-15.6	-18.2	-24.4	0.5	13.2	46.3
45	7.2	-13.9	-16.6	-23.7	2.1	16.1	51.9
50	10	-12.0	-15.0	-22.9	4.0	19.3	57.8
55	12.8	-10.0	-13.2	-21.9	5.9	22.7	64.2
60	15.6	-7.7	-11.2	-20.9	8.0	26.3	70.9
65	18.3	-5.3	-9.0	-19.8	10.3	30.2	78.1
70	21.1	-2.7	-6.6	-18.6	12.7	34.4	85.7
75	23.9	0.1	-4.0	-17.3	15.3	38.9	93.7
80	26.7	1.6	-1.2	-15.8	18.1	43.7	102.2
85	29.4	3.2	0.9	-14.2	21.1	48.8	111.2
90	32.2	5.0	2.5	-12.5	24.3	54.3	120.8
95	35	6.9	4.2	-10.6	27.7	60.1	130.8
100	37.8	8.9	6.1	-8.6	31.3	66.2	141.4
105	40.6	11.0	8.1	-6.4	35.2	72.7	152.5
110	43.3	13.4	10.3	-4.0	39.3	79.6	164.2
115	46.1	15.8	12.6	-1.4	43.6	86.9	176.5
120	48.9	18.5	15.1	0.6	48.2	94.6	189.4
125	51.7	21.3	17.7	2.1	53.1	102.8	203.0
130	54.4	24.2	20.6	3.6	58.2	111.3	217.2
135	57.2	27.4	23.6	5.3	63.6	120.4	232.1
140	60	30.7	26.8	7.1	69.4	129.9	247.7
145	62.8		30.2	9.0	75.4	139.9	264.0
150	65.6		33.8	11.0	81.8	150.4	281.1

Please note:

Pressures are in psig, except for the negative numerals which are in inches of Hg below 1 ATM.

A-GAS[®]

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(*) All refrigerants available from A-Gas Americas in disposable, refillable, large refillables, and bulk.

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°F	°C	R-22		R-410A		R-407A		R-407C	
		Liq.	Vap.	Liq.	Vap.	Liq.	Vap.	Liq.	Vap.
-40	-40	0.6	10.8	3.9	-2.0	2.7	-4.6		
-35	-37.2	2.6	14.1	6.4	1.0	5.1	-0.9		
-30	-34.4	4.9	17.8	9.2	3.3	7.7	1.6		
-25	-31.7	7.4	21.9	12.2	5.8	10.6	3.9		
-20	-28.9	10.2	26.3	15.6	8.5	13.7	6.5		
-15	-26.1	13.2	31.2	19.2	11.5	17.2	9.3		
-10	-23.3	16.5	36.5	23.2	14.9	20.9	12.3		
-5	-20.6	20.1	42.2	27.5	18.5	25.0	15.7		
0	-17.8	24.0	48.4	32.2	22.5	29.5	19.4		
5	-15	28.3	55.2	37.3	26.9	34.3	23.5		
10	-12.2	32.8	62.4	42.8	31.6	39.5	27.9		
15	-9.4	37.8	70.3	48.7	36.7	45.2	32.7		
20	-6.7	43.1	78.7	55.1	42.3	51.2	37.9		
25	-3.9	48.8	87.7	62.0	48.3	57.7	43.5		
30	-1.1	55.0	97.4	69.3	54.8	64.7	49.6		
35	1.7	61.5	107.7	77.2	61.8	72.2	56.1		
40	4.4	68.6	118.8	85.6	69.4	80.2	63.2		
45	7.2	76.1	130.6	94.6	77.4	88.8	70.7		
50	10	84.1	143.2	104.2	86.1	97.9	78.8		
55	12.8	92.6	156.5	114.4	95.3	107.6	87.5		
60	15.6	101.6	170.7	125.2	105.2	118.0	96.8		
65	18.3	111.3	185.8	136.7	115.8	128.9	106.7		
70	21.1	121.4	201.8	148.8	127.0	140.5	117.3		
75	23.9	132.2	218.7	161.7	138.9	152.8	128.6		
80	26.7	143.6	236.5	175.3	151.6	165.8	140.5		
85	29.4	155.7	255.4	189.7	165.1	179.6	153.2		
90	32.2	168.4	275.4	204.8	179.3	194.1	166.7		
95	35	181.8	296.4	220.8	194.5	209.4	181.0		
100	37.8	195.9	318.6	237.7	210.4	225.5	196.1		
105	40.6	210.8	341.9	255.3	227.4	242.4	212.1		
110	43.3	226.4	366.4	273.9	245.2	260.3	229.0		
115	46.1	242.8	392.3	293.5	264.1	279.0	246.9		
120	48.9	260.0	419.4	314.0	284.0	298.6	265.8		
125	51.7	278.0	447.9	335.4	305.0	319.2	285.7		
130	54.4	296.9	477.9	357.9	327.1	340.7	306.7		
135	57.2	316.7	509.4	381.5	350.5	363.3	328.8		
140	60	337.4	542.5	406.2	375.1	387.0	352.1		
145	62.8	359.0	577.3	431.9	401.0	411.7	376.6		
150	65.6	381.7	613.9	458.9	428.3	437.5	402.5		

°F	°C	R-134a	R-12	R-409A		R-401A		R-401B		R-502	R-404A	R-507A	R-408A	R-421A
				Liq.	Vap.	Liq.	Vap.	Liq.	Vap.					
-40	-40	-14.8	-11.0	-6.7	-14.8	-8.4	-13.8	-6.7	-12.4	4.0	4.9	5.4	3.5	0.5
-35	-37.2	-12.5	-8.4	-3.5	-12.5	-5.3	-11.4	-3.4	-9.7	6.4	7.5	8.1	5.8	2.6
-30	-34.4	-9.8	-5.5	0.0	-9.9	-2.0	-8.7	0.1	-6.8	9.1	10.3	11.0	8.5	4.9
-25	-31.7	-6.9	-2.4	1.9	-7.0	0.8	-5.6	2.0	-3.5	11.9	13.4	14.1	11.3	7.4
-20	-28.9	-3.7	0.5	4.0	-3.8	2.9	-2.2	4.1	0.1	15.1	16.8	17.6	14.5	10.2
-15	-26.1	-0.1	2.4	6.3	-0.2	5.1	0.7	6.5	2.0	18.5	20.5	21.4	17.9	13.2
-10	-23.3	1.9	4.5	8.8	1.8	7.5	2.8	9.1	4.2	22.2	24.6	25.5	21.7	16.5
-5	-20.6	4.1	6.7	11.6	4.0	10.1	5.0	11.9	6.6	26.3	28.9	30.0	25.7	20.1
0	-17.8	6.5	9.1	14.6	6.3	13.0	7.4	14.9	9.2	30.6	33.7	34.8	30.1	24.0
5	-15	9.1	11.7	17.8	8.8	16.1	10.1	18.2	12.1z	35.3	38.8	40.1	34.9	28.3
10	-12.2	11.9	14.6	21.3	11.6	19.5	13.0	21.8	15.2	40.4	44.3	45.7	40.0	32.9
15	-9.4	15.0	17.7	25.1	14.7	23.1	16.2	25.7	18.6	45.8	50.2	51.8	45.5	37.8
20	-6.7	18.4	21.0	29.2	18.0	27.1	19.6	29.9	22.3	51.6	56.6	58.3	51.5	43.2
25	-3.9	22.1	24.6	33.6	21.6	31.4	23.4	34.4	26.3	57.9	63.4	65.3	57.8	48.9
30	-1.1	26.1	28.4	38.4	25.5	36.0	27.4	39.3	30.6	64.6	70.7	72.7	64.6	55.0
35	1.7	30.4	32.5	43.4	29.7	40.9	31.8	44.5	35.2	71.7	78.6	80.7	71.9	61.6
40	4.4	35.0	36.9	48.9	34.2	46.2	36.5	50.1	40.2	79.3	86.9	89.2	79.7	68.7
45	7.2	40.1	41.6	54.7	39.1	51.8	41.6	56.0	45.6	87.4	95.8	98.3	88.0	76.2
50	10	45.4	46.6	60.9	44.3	57.9	47.0	62.4	51.4	96.0	105.3	108.0	96.8	84.2
55	12.8	51.2	51.9	67.4	49.9	64.3	52.8	69.2	57.5	105.1	115.3	118.3	106.2	92.8
60	15.6	57.4	57.6	74.5	55.9	71.2	59.0	76.5	64.1	114.7	126.0	129.2	116.1	101.9
65	18.3	64.0	63.7	81.9	62.3	78.5	65.7	84.2	71.2	125.0	137.3	140.8	126.7	111.5
70	21.1	71.1	70.1	89.8	69.1	86.3	72.8	92.3	78.7	135.8	149.3	153.0	137.8	121.8
75	23.9	78.7	76.8	98.2	76.4	94.5	80.3	101.0	86.7	147.2	162.0	165.9	149.6	132.6
80	26.7	86.7	84.0	107.0	84.2	103.2	88.4	110.2	95.2	159.2	175.4	179.6	162.1	144.1
85	29.4	95.2	91.6	116.4	92.5	112.4	96.9	119.9	104.2	171.9	189.5	194.1	175.3	156.2
90	32.2	104.3	99.6	126.2	101.2	122.2	106.0	130.1	113.8	185.3	204.5	209.3	189.2	169.0
95	35	114.0	108.0	136.6	110.5	132.5	115.6	140.9	123.9	199.4	220.2	225.4	203.8	182.5
100	37.8	124.2	116.9	147.6	120.3	143.3	125.8	152.3	134.7	214.1	236.8	242.3	219.2	196.7
105	40.6	135.0	126.3	159.1	130.7	154.8	136.5	164.3	146.0	229.7	254.2	260.1	235.3	211.7
110	43.3	146.4	136.1	171.2	141.7	166.8	147.8	176.9	158.0	246.0	272.5	278.8	252.3	227.5
115	46.1	158.4	146.4	183.9	153.3	179.4	159.8	190.1	170.6	263.1	291.8	298.5	270.2	244.0
120	48.9	171.2	157.3	197.2	165.6	192.7	172.4	204.1	183.9	281.0	312.1	319.2	288.9	261.4
125	51.7	184.6	168.6	211.1	178.5	206.6	185.7	218.6	197.9	299.8	333.3	340.9	308.6	279.7
130	54.4	198.7	180.5	225.7	192.0	221.2	199.7	233.9	212.6	319.4	355.7	363.8	329.2	298.9
135	57.2	213.6	193.0	241.0	206.3	236.5	214.5	250.0	228.1	340.0	379.1	387.8	350.7	319.0
140	60	229.2	206.0	257.0	221.3	252.5	229.9	266.7	244.3	361.6	403.7	413.0	373.3	340.1
145	62.8	245.7	219.7	273.7	237.1	269.3	246.2	284.3	261.4	384.1	429.6	439.5	397.0	362.1
150	65.6	262.9	233.9	291.1	253.6	286.8	263.2	302.6	279.3	407.7	456.8	467.4	421.7	385.3