ARKEMA
INNOVATIVE CHEMISTRY

FORANE® REFRIGERANTS BY ARKEMA

Saturation Pressure-Temperature Data for R-410A (psig)*

Temp. (°F)	Pressure Liquid	Pressure Vapor	Temp. (°C)	Temp. (°F)	Pressure Liquid	Pressure Vapor	Temp. (°C)	Temp. (°F)	Pressure Liquid	Pressure Vapor	Temp. (°C)	Temp. (°F)	Pressure Liquid	Pressure Vapor	Temp. (°C)
-49	5.5	5.4	-45.0	1	49.7	49.5	-17.2	51	145.8	145.2	10.6	101	323.1	322.1	38.3
-48	6.0	5.9	-44.4	2	51.1	50.8	-16.7	52	148.4	147.9	11.1	102	327.7	326.7	38.9
-47	6.6	6.5	-43.9	3	52.4	52.2	-16.1	53	151.1	150.5	11.7	103	332.4	331.4	39.4
-46	7.1	7.1	-43.3	4	53.8	53.5	-15.6	54	153.8	153.2	12.2	104	337.1	336.1	40.0
-45	7.7	7.6	-42.8	5	55.2	54.9	-15.0	55	156.5	156.0	12.8	105	341.9	340.9	40.6
-44	8.3	8.2	-42.2	6	56.6	56.3	-14.4	56	159.3	158.7	13.3	106	346.7	345.7	41.1
-43	8.9	8.8	-41.7	7	58.0	57.8	-13.9	57	162.1	161.5	13.9	107	351.6	350.5	41.7
-42	9.5	9.4	-41.1	8	59.5	59.2	-13.3	58	164.9	164.4	14.4	108	356.5	355.4	42.2
-41	10.1	10.0	-40.6	9	60.9	60.7	-12.8	59	167.8	167.2	15.0	109	361.4	360.4	42.8
-40	10.8	10.7	-40.0	10	62.4	62.2	-12.2	60	170.7	170.1	15.6	110	366.4	365.4	43.3
-39	11.4	11.3	-39.4	11	63.9	63.7	-11.7	61	173.7	173.1	16.1	111	371.5	370.4	43.9
-38	12.1	12.0	-38.9	12	65.5	65.2	-11.1	62	176.7	176.0	16.7	112	376.6	375.5	44.4
-37	12.7	12.6	-38.3	13	67.1	66.8	-10.6	63	179.7	179.0	17.2	113	381.8	380.7	45.0
-36	13.4	13.3	-37.8	14	68.6	68.4	-10.0	64	182.7	182.1	17.8	114	387.0	385.9	45.6
-35	14.1	14.0	-37.2	15	70.3	70.0	-9.4	65	185.8	185.2	18.3	115	392.3	391.2	46.1
-34	14.8	14.7	-36.7	16	71.9	71.6	-8.9	66	188.9	188.3	18.9	116	397.6	396.5	46.7
-33	15.6	15.5	-36.1	17	73.5	73.3	-8.3	67	192.1	191.4	19.4	117	403.0	401.9	47.2
-32	16.3	16.2	-35.6	18	75.2	74.9	-7.8	68	195.3	194.6	20.0	118	408.4	407.3	47.8
-31	17.1	16.9	-35.0	19	76.9	76.6	-7.2	69	198.5	197.8	20.6	119	413.9	412.8	48.3
-30	17.8	17.7	-34.4	20	78.7	78.4	-6.7	70	201.8	201.1	21.1	120	419.4	418.3	48.9
-29	18.6	18.5	-33.9	21	80.4	80.1	-6.1	71	205.1	204.4	21.7	121	425.0	423.9	49.4
-28	19.4	19.3	-33.3	22	82.2	81.9	-5.6	72	208.4	207.7	22.2	122	430.7	429.5	50.0
-27	20.2	20.1	-32.8	23	84.0	83.7	-5.0	73	211.8	211.1	22.8	123	436.4	435.2	50.6
-26	21.0	20.9	-32.2	24	85.8	85.5	-4.4	74	215.2	214.5	23.3	124	442.1	441.0	51.1
-25	21.9	21.8	-31.7	25	87.7	87.4	-3.9	75	218.7	217.9	23.9	125	447.9	446.8	51.7
-24	22.7	22.6	-31.1	26	89.6	89.2	-3.3	76	222.2	221.4	24.4	126	453.8	452.7	52.2
-23	23.6	23.5	-30.6	27	91.5	91.1	-2.8	77	225.7	224.9	25.0	127	459.8	458.6	52.8
-22	24.5	24.4	-30.0	28	93.4	93.1	-2.2	78	229.3	228.5	25.6	128	465.8	464.6	53.3
-21	25.4	25.3	-29.4	29	95.4	95.0	-1.7	79	232.9	232.1	26.1	129	471.8	470.7	53.9
-20	26.3	26.2	-28.9	30	97.4	97.0	-1.1	80	236.5	235.8	26.7	130	477.9	476.8	54.4
-19	27.3	27.1	-28.3	31	99.4	99.0	-0.6	81	240.2	239.4	27.2	131	484.1	483.0	55.0
-18	28.2	28.1	-27.8	32	101.4	101.1	0.0	82	244.0	243.2	27.8	132	490.3	489.2	55.6
-17	29.2	29.0	-27.2	33	103.5	103.1	0.6	83	247.8	246.9	28.3	133	496.6	495.5	56.1
-16	30.2	30.0	-26.7	34	105.6	105.2	1.1	84	251.6	250.7	28.9	134	503.0	501.9	56.7
-15	31.2	31.0	-26.1	35	107.7	107.3	1.7	85	255.4	254.6	29.4	135	509.4	508.3	57.2
-14	32.2	32.0	-25.6	36	109.9	109.5	2.2	86	259.3	258.5	30.0	136	515.9	514.8	57.8
-13	33.2	33.1	-25.0	37	112.1	111.7	2.8	87	263.3	262.4	30.6	137	522.5	521.4	58.3
-12	34.3	34.1	-24.4	38	114.3	113.9	3.3	88	267.3	266.4	31.1	138	529.1	528.0	58.9
-11	35.4	35.2	-23.9	39	116.5	116.1	3.9	89	271.3	270.4	31.7	139	535.8	534.7	59.4
-10	36.5	36.3	-23.3	40	118.8	118.4	4.4	90	275.4	274.5	32.2	140	542.5	541.4	60.0
-9	37.6	37.4	-22.8	41	121.1	120.7	5.0	91	279.5	278.6	32.8	141	549.3	548.3	60.6
-8	38.7	38.5	-22.2	42	123.4	123.0	5.6	92	283.6	282.7	33.3	142	556.2	555.2	61.1
-7	39.9	39.7	-21.7	43	125.8	125.3	6.1	93	287.9	286.9	33.9	143	563.2	562.1	61.7
-6	41.0	40.8	-21.1	44	128.2	127.7	6.7	94	292.1	291.2	34.4	144	570.2	569.2	62.2
-5	42.2	42.0	-20.6	45	130.6	130.1	7.2	95	296.4	295.5	35.0	145	577.3	576.3	62.8
-4	43.4	43.2	-20.0	46	133.0	132.6	7.8	96	300.7	299.8	35.6	146	584.5	583.5	63.3
-3	44.6	44.4	-19.4	47	135.5	135.0	8.3	97	305.1	304.2	36.1	147	591.7	590.7	63.9
-2	45.9	45.7	-18.9	48	138.0	137.5	8.9	98	309.5	308.6	36.7	148	599.0	598.1	64.4
-1	47.1	46.9	-18.3	49	140.6	140.1	9.4	99	314.0	313.1	37.2	149	606.4	605.5	65.0
0	48.4	48.2	-17.8	50	143.2	142.6	10.0	100	318.6	317.6	37.8	150	613.9	613.0	65.6

**Red Italics Indicate Inches of Mercury Below Atmospheric Pressure*

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)