



Thermodynamic Properties of Forane[®] 409A - Saturation

Saturation Temperature (°F)	Liquid Pressure (psia)	Vapor Pressure (psia)	Liquid Density (lb/ft ³)	Vapor Density (lb/ft ³)	Liquid Enthalpy (BTU/lb)	Vapor Enthalpy (BTU/lb)	Liquid Entropy (BTU/lb °R)	Vapor Entropy (BTU/lb °R)
-50	8.62	6.27	89.33	0.141	-2.4	92.6	-0.006	0.230
-45	9.92	7.21	88.85	0.161	-1.2	93.3	-0.003	0.229
-40	11.36	8.27	88.37	0.182	0.0	94.0	0.000	0.228
-35	12.96	9.44	87.89	0.206	1.2	94.6	0.003	0.227
-30	14.73	10.74	87.41	0.232	2.4	95.3	0.006	0.226
-25	16.68	12.18	86.92	0.261	3.7	96.0	0.009	0.225
-20	18.83	13.78	86.43	0.292	4.9	96.6	0.011	0.224
-15	21.17	15.53	85.93	0.327	6.2	97.3	0.014	0.223
-10	23.73	17.46	85.43	0.364	7.4	98.0	0.017	0.222
-5	26.52	19.57	84.93	0.405	8.7	98.6	0.020	0.221
0	29.54	21.88	84.42	0.449	10.0	99.3	0.023	0.221
5	32.82	24.41	83.91	0.498	11.2	100.0	0.025	0.220
10	36.36	27.15	83.40	0.550	12.5	100.6	0.028	0.219
15	40.18	30.14	82.88	0.606	13.8	101.3	0.031	0.219
20	44.29	33.38	82.35	0.667	15.2	101.9	0.034	0.218
25	48.69	36.89	81.82	0.732	16.5	102.6	0.036	0.217
30	53.42	40.68	81.28	0.803	17.8	103.2	0.039	0.217
35	58.47	44.77	80.74	0.879	19.2	103.9	0.042	0.216
40	63.87	49.18	80.19	0.961	20.6	104.5	0.044	0.216
45	69.62	53.92	79.64	1.049	21.9	105.1	0.047	0.215
50	75.74	59.02	79.08	1.143	23.3	105.7	0.050	0.215
55	82.25	64.49	78.51	1.244	24.8	106.3	0.053	0.214
60	89.16	70.34	77.93	1.352	26.2	106.9	0.055	0.214
65	96.48	76.62	77.35	1.469	27.6	107.5	0.058	0.213
70	104.23	83.32	76.76	1.593	29.1	108.1	0.061	0.213
75	112.42	90.47	76.15	1.726	30.6	108.7	0.064	0.213
80	121.08	98.11	75.54	1.868	32.0	109.3	0.066	0.212
85	130.22	106.24	74.92	2.021	33.6	109.8	0.069	0.212
90	139.85	114.90	74.29	2.184	35.1	110.3	0.072	0.211
95	149.99	124.11	73.64	2.359	36.6	110.9	0.075	0.211
100	160.66	133.89	72.98	2.545	38.2	111.4	0.077	0.210
105	171.88	144.28	72.31	2.746	39.8	111.9	0.080	0.210
110	183.68	155.31	71.62	2.960	41.4	112.3	0.083	0.210
115	196.06	166.99	70.92	3.189	43.1	112.8	0.086	0.209
120	209.05	179.37	70.20	3.436	44.7	113.2	0.088	0.209
125	222.67	192.48	69.46	3.700	46.4	113.6	0.091	0.208
130	236.95	206.35	68.70	3.984	48.2	114.0	0.094	0.208
135	251.91	221.01	67.92	4.289	49.9	114.4	0.097	0.207
140	267.57	236.50	67.12	4.618	51.7	114.7	0.100	0.207
145	283.96	252.87	66.28	4.973	53.5	115.0	0.103	0.206
150	301.11	270.15	65.42	5.357	55.4	115.2	0.106	0.206