

## 18. Appendix A

# Table of Thermodynamic Properties of Argon at Saturation

The number of significant figures given in the table is not justified on the basis of the uncertainty of the data, but is presented to maintain internal consistency.

## 18. APPENDIX A - Table of Thermodynamic Properties of Argon at Saturation

## SATURATION DATA

TEMP. K	PRESSURE ATM	DENSITY MOL/LITER		ENTHALPY J/MOL		ENTROPY J/MOL-K	
		VAPOR	LIQUID	VAPOR	LIQUID	VAPOR	LIQUID
TP 83.800	0.67979	0.101354	35.4126	9388.0	2814.2	131.21	52.77
84.000	0.69567	0.103520	35.3834	9391.2	2823.2	131.06	52.87
85.000	0.77945	0.114883	35.2363	9407.1	2868.7	130.33	53.41
86.000	0.87082	0.127166	35.0873	9422.7	2914.3	129.62	53.94
87.000	0.97024	0.140413	34.9366	9437.9	2960.2	128.92	54.47
88.000	1.07816	0.154674	34.7841	9452.7	3006.3	128.24	54.99
89.000	1.19503	0.169995	34.6300	9467.1	3052.6	127.58	55.51
90.000	1.32133	0.186428	34.4742	9481.0	3099.2	126.93	56.02
91.000	1.45754	0.204020	34.3169	9494.6	3145.9	126.30	56.54
92.000	1.60412	0.222826	34.1581	9507.7	3192.8	125.68	57.04
93.000	1.76157	0.242895	33.9978	9520.3	3240.0	125.08	57.55
94.000	1.93037	0.264283	33.8360	9532.5	3287.3	124.49	58.05
95.000	2.11103	0.287044	33.6727	9544.2	3334.8	123.91	58.55
96.000	2.30404	0.311234	33.5080	9555.4	3382.5	123.34	59.04
97.000	2.50991	0.336911	33.3418	9566.1	3430.4	122.78	59.53
98.000	2.72914	0.364134	33.1741	9576.2	3478.5	122.24	60.02
99.000	2.96224	0.392964	33.0049	9585.8	3526.8	121.70	60.50
100.000	3.20974	0.423464	32.8342	9594.9	3575.2	121.18	60.98
101.000	3.47213	0.455699	32.6620	9603.4	3623.8	120.66	61.45
102.000	3.74996	0.489735	32.4883	9611.3	3672.5	120.15	61.93
103.000	4.04373	0.525642	32.3129	9618.6	3721.5	119.65	62.39
104.000	4.35397	0.563492	32.1359	9625.3	3770.6	119.15	62.86
105.000	4.68121	0.603360	31.9572	9631.4	3819.8	118.67	63.32
106.000	5.02598	0.645324	31.7768	9636.8	3869.2	118.19	63.78
107.000	5.38880	0.689465	31.5947	9641.6	3918.8	117.72	64.23
108.000	5.77023	0.735870	31.4107	9645.6	3968.6	117.25	64.68
109.000	6.17079	0.784628	31.2247	9649.0	4018.5	116.79	65.13
110.000	6.59102	0.835832	31.0368	9651.7	4068.7	116.33	65.58
111.000	7.03147	0.889583	30.8469	9653.6	4119.0	115.88	66.02
112.000	7.49269	0.945986	30.6547	9654.7	4169.5	115.44	66.46
113.000	7.97523	1.00515	30.4604	9655.1	4220.3	114.99	66.90
114.000	8.47964	1.06719	30.2637	9654.7	4271.2	114.55	67.33
115.000	9.00650	1.13225	30.0645	9653.4	4322.4	114.12	67.76
116.000	9.55635	1.20044	29.8628	9651.2	4373.9	113.69	68.19
117.000	10.12979	1.27192	29.6584	9648.2	4425.7	113.26	68.62
118.000	10.72739	1.34685	29.4511	9644.2	4477.7	112.83	69.05
119.000	11.34972	1.42538	29.2409	9639.3	4530.1	112.40	69.47
120.000	11.99740	1.50769	29.0274	9633.4	4582.8	111.98	69.89
121.000	12.67102	1.59399	28.8107	9626.4	4636.0	111.56	70.31
122.000	13.37120	1.68449	28.5904	9618.3	4689.6	111.13	70.73
123.000	14.09855	1.77941	28.3663	9609.1	4743.6	110.71	71.15
124.000	14.85371	1.87901	28.1382	9598.7	4798.2	110.29	71.57
125.000	15.63733	1.98357	27.9059	9587.1	4853.3	109.86	71.99
126.000	16.45007	2.09340	27.6690	9574.1	4909.1	109.44	72.41
127.000	17.29259	2.20884	27.4273	9559.8	4965.6	109.01	72.84
128.000	18.16559	2.33026	27.1803	9544.0	5022.8	108.58	73.26
129.000	19.06978	2.45809	26.9276	9526.6	5080.9	108.15	73.69
130.000	20.00587	2.59280	26.6689	9507.6	5139.9	107.71	74.11
131.000	20.97461	2.73495	26.4036	9486.8	5200.0	107.27	74.55
132.000	21.97677	2.88513	26.1312	9464.1	5261.2	106.82	74.98
133.000	23.01312	3.04406	25.8508	9439.4	5323.7	106.37	75.42
134.000	24.08448	3.21255	25.5619	9412.4	5387.7	105.91	75.87
135.000	25.19168	3.39153	25.2635	9383.1	5453.2	105.44	76.33
136.000	26.33558	3.58212	24.9546	9351.1	5520.1	104.95	76.79
137.000	27.51709	3.78563	24.6339	9316.2	5588.7	104.46	77.25
138.000	28.73712	4.00365	24.3000	9278.0	5659.2	103.95	77.73
139.000	29.99663	4.23809	23.9510	9236.2	5731.7	103.43	78.21
140.000	31.29662	4.49134	23.5848	9190.4	5806.7	102.88	78.71
141.000	32.63813	4.76639	23.1987	9139.8	5884.5	102.31	79.22
142.000	34.02222	5.06709	22.7890	9083.8	5965.6	101.71	79.76
143.000	35.45004	5.39851	22.3511	9021.3	6050.8	101.08	80.31
144.000	36.92273	5.76760	21.8787	8951.1	6141.0	100.41	80.89
145.000	38.44154	6.18418	21.3629	8871.2	6237.7	99.68	81.51
146.000	40.00773	6.66296	20.7905	8778.9	6342.6	98.87	82.18
147.000	41.62265	7.22752	20.1401	8669.9	6459.0	97.97	82.93
148.000	43.28771	7.91978	19.3746	8536.7	6592.2	96.91	83.77
149.000	45.00437	8.82745	18.4161	8364.0	6753.8	95.61	84.80
150.000	46.77419	10.2023	17.0416	8109.1	6977.6	93.78	86.23
150.860	48.34000	13.4123	13.4123	7557.1	7557.1	90.02	90.02