

19. APPENDIX B - Table of Thermodynamic Properties of Argon at Selected Pressures

0.01 ATMOSPHERE ISOBAR

TEMP. K	DENSITY MOL/LITER	ENTHALPY J/MOL	INTERNAL ENERGY J/MOL	ENTROPY J/MOL-K	TEMP. K	DENSITY MOL/LITER	ENTHALPY J/MOL	INTERNAL ENERGY J/MOL	ENTROPY J/MOL-K
					91	0.0013396	9581.6	8825.3	168.33
					92	0.0013251	9602.4	8837.7	168.56
					93	0.0013108	9623.2	8850.2	168.78
					94	0.0012968	9644.0	8862.7	169.01
					95	0.0012832	9664.8	8875.2	169.23
					96	0.0012698	9685.6	8887.6	169.44
					97	0.0012567	9706.4	8900.1	169.66
					98	0.0012439	9727.2	8912.6	169.87
					99	0.0012313	9748.0	8925.1	170.08
					100	0.0012190	9768.8	8937.5	170.29
					101	0.0012069	9789.6	8950.0	170.50
					102	0.0011951	9810.4	8962.5	170.70
					103	0.0011835	9831.2	8975.0	170.91
					104	0.0011721	9852.0	8987.4	171.11
					105	0.0011609	9872.8	8999.9	171.31
					106	0.0011499	9893.5	9012.4	171.50
					107	0.0011392	9914.3	9024.9	171.70
					108	0.0011286	9935.1	9037.3	171.89
					109	0.0011183	9955.9	9049.8	172.08
					110	0.0011081	9976.7	9062.3	172.27
					111	0.0010981	9997.5	9074.8	172.46
					112	0.0010883	10018.3	9087.2	172.65
					113	0.0010787	10039.1	9099.7	172.83
					114	0.0010692	10059.9	9112.2	173.02
					115	0.0010599	10080.7	9124.7	173.20
					116	0.0010508	10101.5	9137.1	173.38
					117	0.0010418	10122.3	9149.6	173.56
					118	0.0010330	10143.0	9162.1	173.73
					119	0.0010243	10163.8	9174.6	173.91
					120	0.0010157	10184.6	9187.0	174.08
					121	0.0010073	10205.4	9199.5	174.26
					122	0.0009991	10226.2	9212.0	174.43
					123	0.0009909	10247.0	9224.5	174.60
					124	0.0009830	10267.8	9236.9	174.76
					125	0.0009751	10288.6	9249.4	174.93
					126	0.0009673	10309.4	9261.9	175.10
					127	0.0009597	10330.2	9274.4	175.26
					128	0.0009522	10351.0	9286.8	175.42
					129	0.0009448	10371.7	9299.3	175.59
					130	0.0009376	10392.5	9311.8	175.75
					131	0.0009304	10413.3	9324.3	175.91
					132	0.0009234	10434.1	9336.7	176.06
					133	0.0009164	10454.9	9349.2	176.22
					134	0.0009096	10475.7	9361.7	176.38
					135	0.0009028	10496.5	9374.2	176.53
					136	0.0008962	10517.3	9386.6	176.69
					137	0.0008897	10538.1	9399.1	176.84
					138	0.0008832	10558.8	9411.6	176.99
					139	0.0008769	10579.6	9424.1	177.14
					140	0.0008706	10600.4	9436.5	177.29
					141	0.0008644	10621.2	9449.0	177.44
					142	0.0008583	10642.0	9461.5	177.58
					143	0.0008523	10662.8	9473.9	177.73
					144	0.0008464	10683.6	9486.4	177.87
					145	0.0008406	10704.4	9498.9	178.02
					146	0.0008348	10725.2	9511.4	178.16
					147	0.0008291	10746.0	9523.8	178.30
					148	0.0008235	10766.7	9536.3	178.44
					149	0.0008180	10787.5	9548.8	178.58
					150	0.0008125	10808.3	9561.3	178.72
					151	0.0008072	10829.1	9573.7	178.86
					152	0.0008018	10849.9	9586.2	179.00
					153	0.0007966	10870.7	9598.7	179.13
					154	0.0007914	10891.5	9611.2	179.27
					155	0.0007863	10912.3	9623.6	179.40
					156	0.0007813	10933.0	9636.1	179.54
					157	0.0007763	10953.8	9648.6	179.67
					158	0.0007714	10974.6	9661.0	179.80
					159	0.0007665	10995.4	9673.5	179.93
					160	0.0007617	11016.2	9686.0	180.06
86	0.0014176	9477.7	8762.9	167.16					
87	0.0014013	9498.5	8775.4	167.40					
88	0.0013853	9519.3	8787.8	167.63					
89	0.0013698	9540.1	8800.3	167.87					
90	0.0013545	9560.8	8812.8	168.10					

0.01 ATMOSPHERE ISOBAR

TEMP. K	DENSITY MOL/LITER	ENTHALPY J/MOL	INTERNAL ENERGY J/MOL	ENTROPY J/MOL-K	TEMP. K	DENSITY MOL/LITER	ENTHALPY J/MOL	INTERNAL ENERGY J/MOL	ENTROPY J/MOL-K
161	0.0007570	11037.0	9698.5	180.19	231	0.0005276	12492.1	10571.5	187.70
162	0.0007523	11057.8	9710.9	180.32	232	0.0005253	12512.9	10584.0	187.79
163	0.0007477	11078.6	9723.4	180.45	233	0.0005231	12533.7	10596.5	187.88
164	0.0007432	11099.4	9735.9	180.58	234	0.0005208	12554.5	10608.9	187.97
165	0.0007387	11120.1	9748.4	180.70	235	0.0005186	12575.2	10621.4	188.05
166	0.0007342	11140.9	9760.8	180.83	236	0.0005164	12596.0	10633.9	188.14
167	0.0007298	11161.7	9773.3	180.95	237	0.0005142	12616.8	10646.4	188.23
168	0.0007255	11182.5	9785.8	181.08	238	0.0005121	12637.6	10658.8	188.32
169	0.0007212	11203.3	9798.2	181.20	239	0.0005099	12658.4	10671.3	188.41
170	0.0007169	11224.1	9810.7	181.32	240	0.0005078	12679.2	10683.8	188.49
171	0.0007127	11244.9	9823.2	181.45	241	0.0005057	12700.0	10696.2	188.58
172	0.0007086	11265.7	9835.7	181.57	242	0.0005036	12720.8	10708.7	188.66
173	0.0007045	11286.4	9848.1	181.69	243	0.0005015	12741.5	10721.2	188.75
174	0.0007004	11307.2	9860.6	181.81	244	0.0004995	12762.3	10733.7	188.84
175	0.0006964	11328.0	9873.1	181.93	245	0.0004974	12783.1	10746.1	188.92
176	0.0006925	11348.8	9885.6	182.05	246	0.0004954	12803.9	10758.6	189.01
177	0.0006886	11369.6	9898.0	182.16	247	0.0004934	12824.7	10771.1	189.09
178	0.0006847	11390.4	9910.5	182.28	248	0.0004914	12845.5	10783.6	189.17
179	0.0006809	11411.2	9923.0	182.40	249	0.0004895	12866.3	10796.0	189.26
180	0.0006771	11432.0	9935.4	182.51	250	0.0004875	12887.0	10808.5	189.34
181	0.0006734	11452.7	9947.9	182.63	251	0.0004856	12907.8	10821.0	189.42
182	0.0006697	11473.5	9960.4	182.74	252	0.0004836	12928.6	10833.4	189.51
183	0.0006660	11494.3	9972.9	182.86	253	0.0004817	12949.4	10845.9	189.59
184	0.0006624	11515.1	9985.3	182.97	254	0.0004798	12970.2	10858.4	189.67
185	0.0006588	11535.9	9997.8	183.08	255	0.0004779	12991.0	10870.9	189.75
186	0.0006552	11556.7	10010.3	183.19	256	0.0004761	13011.8	10883.3	189.83
187	0.0006517	11577.5	10022.8	183.31	257	0.0004742	13032.5	10895.8	189.91
188	0.0006483	11598.3	10035.2	183.42	258	0.0004724	13053.3	10908.3	190.00
189	0.0006448	11619.0	10047.7	183.53	259	0.0004706	13074.1	10920.7	190.08
190	0.0006415	11639.8	10060.2	183.64	260	0.0004687	13094.9	10933.2	190.16
191	0.0006381	11660.6	10072.6	183.75	261	0.0004669	13115.7	10945.7	190.24
192	0.0006348	11681.4	10085.1	183.85	262	0.0004652	13136.5	10958.2	190.32
193	0.0006315	11702.2	10097.6	183.96	263	0.0004634	13157.3	10970.6	190.39
194	0.0006282	11723.0	10110.1	184.07	264	0.0004616	13178.1	10983.1	190.47
195	0.0006250	11743.8	10122.5	184.18	265	0.0004599	13198.8	10995.6	190.55
196	0.0006218	11764.6	10135.0	184.28	266	0.0004582	13219.6	11008.0	190.63
197	0.0006187	11785.3	10147.5	184.39	267	0.0004565	13240.4	11020.5	190.71
198	0.0006155	11806.1	10159.9	184.49	268	0.0004547	13261.2	11033.0	190.79
199	0.0006124	11826.9	10172.4	184.60	269	0.0004531	13282.0	11045.5	190.86
200	0.0006094	11847.7	10184.9	184.70	270	0.0004514	13302.8	11057.9	190.94
201	0.0006063	11868.5	10197.4	184.81	271	0.0004497	13323.6	11070.4	191.02
202	0.0006033	11889.3	10209.8	184.91	272	0.0004481	13344.3	11082.9	191.09
203	0.0006004	11910.1	10222.3	185.01	273	0.0004464	13365.1	11095.3	191.17
204	0.0005974	11930.9	10234.8	185.11	274	0.0004448	13385.9	11107.8	191.25
205	0.0005945	11951.6	10247.3	185.22	275	0.0004432	13406.7	11120.3	191.32
206	0.0005916	11972.4	10259.7	185.32	276	0.0004416	13427.5	11132.8	191.40
207	0.0005888	11993.2	10272.2	185.42	277	0.0004400	13448.3	11145.2	191.47
208	0.0005859	12014.0	10284.7	185.52	278	0.0004384	13469.1	11157.7	191.55
209	0.0005831	12034.8	10297.1	185.62	279	0.0004368	13489.8	11170.2	191.62
210	0.0005804	12055.6	10309.6	185.72	280	0.0004353	13510.6	11182.7	191.70
211	0.0005776	12076.4	10322.1	185.82	281	0.0004337	13531.4	11195.1	191.77
212	0.0005749	12097.1	10334.6	185.91	282	0.0004322	13552.2	11207.6	191.84
213	0.0005722	12117.9	10347.0	186.01	283	0.0004306	13573.0	11220.1	191.92
214	0.0005695	12138.7	10359.5	186.11	284	0.0004291	13593.8	11232.5	191.99
215	0.0005669	12159.5	10372.0	186.21	285	0.0004276	13614.6	11245.0	192.06
216	0.0005642	12180.3	10384.4	186.30	286	0.0004261	13635.4	11257.5	192.14
217	0.0005616	12201.1	10396.9	186.40	287	0.0004246	13656.1	11270.0	192.21
218	0.0005591	12221.9	10409.4	186.49	288	0.0004232	13676.9	11282.4	192.28
219	0.0005565	12242.7	10421.9	186.59	289	0.0004217	13697.7	11294.9	192.35
220	0.0005540	12263.4	10434.3	186.68	290	0.0004203	13718.5	11307.4	192.43
221	0.0005515	12284.2	10446.8	186.78	291	0.0004188	13739.3	11319.8	192.50
222	0.0005490	12305.0	10459.3	186.87	292	0.0004174	13760.1	11332.3	192.57
223	0.0005465	12325.8	10471.8	186.97	293	0.0004159	13780.9	11344.8	192.64
224	0.0005441	12346.6	10484.2	187.06	294	0.0004145	13801.6	11357.3	192.71
225	0.0005417	12367.4	10496.7	187.15	295	0.0004131	13822.4	11369.7	192.78
226	0.0005393	12388.2	10509.2	187.24	296	0.0004117	13843.2	11382.2	192.85
227	0.0005369	12409.0	10521.6	187.33	297	0.0004103	13864.0	11394.7	192.92
228	0.0005345	12429.7	10534.1	187.43	298	0.0004090	13884.8	11407.1	192.99
229	0.0005322	12450.5	10546.6	187.52	299	0.0004076	13905.6	11419.6	193.06
230	0.0005299	12471.3	10559.1	187.61	300	0.0004062	13926.4	11432.1	193.13