

## 4.00 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	34.3387	3150.2	3138.4	56.50
					92	34.1791	3196.9	3185.0	57.01
					93	34.0179	3243.7	3231.8	57.52
					94	33.8550	3290.7	3278.7	58.02
					95	33.6906	3337.9	3325.8	58.52
					96	33.5244	3385.2	3373.1	59.01
					97	33.3566	3432.7	3420.6	59.51
					98	33.1871	3480.4	3468.2	60.00
					99	33.0158	3528.3	3516.0	60.48
					100	32.8428	3576.3	3564.0	60.97
					101	32.6679	3624.5	3612.1	61.44
					102	32.4911	3672.9	3660.4	61.92
				*	102.855	32.3384	3714.3	3701.8	62.33
				*	102.855	0.520302	9617.6	8838.6	119.72
					103	0.519345	9621.2	8840.8	119.75
					104	0.512883	9645.9	8855.6	119.99
					105	0.506612	9670.4	8870.4	120.23
					106	0.500522	9694.9	8885.1	120.46
					107	0.494603	9719.2	8899.7	120.69
					108	0.488849	9743.4	8914.3	120.91
					109	0.483250	9767.5	8928.8	121.14
					110	0.477800	9791.6	8943.3	121.36
					111	0.472493	9815.5	8957.7	121.57
					112	0.467321	9839.3	8972.0	121.79
					113	0.462279	9863.1	8986.3	122.00
					114	0.457361	9886.8	9000.6	122.21
					115	0.452563	9910.4	9014.8	122.41
					116	0.447879	9933.9	9029.0	122.62
					117	0.443305	9957.4	9043.1	122.82
					118	0.438837	9980.8	9057.2	123.02
					119	0.434469	10004.1	9071.2	123.21
					120	0.430200	10027.3	9085.2	123.41
					121	0.426024	10050.5	9099.2	123.60
					122	0.421939	10073.7	9113.1	123.79
					123	0.417941	10096.7	9127.0	123.98
					124	0.414028	10119.8	9140.8	124.17
					125	0.410196	10142.7	9154.6	124.35
					126	0.406442	10165.7	9168.4	124.53
					127	0.402764	10188.5	9182.2	124.71
					128	0.399159	10211.3	9195.9	124.89
					129	0.395625	10234.1	9209.6	125.07
					130	0.392160	10256.8	9223.3	125.24
					131	0.388762	10279.5	9236.9	125.42
					132	0.385427	10302.2	9250.6	125.59
					133	0.382155	10324.7	9264.2	125.76
					134	0.378944	10347.3	9277.7	125.93
					135	0.375791	10369.8	9291.3	126.10
					136	0.372695	10392.3	9304.8	126.26
					137	0.369654	10414.8	9318.3	126.43
					138	0.366667	10437.2	9331.8	126.59
					139	0.363733	10459.5	9345.2	126.75
					140	0.360848	10481.9	9358.7	126.91
					141	0.358013	10504.2	9372.1	127.07
					142	0.355226	10526.5	9385.5	127.23
					143	0.352486	10548.7	9398.9	127.39
					144	0.349790	10571.0	9412.2	127.54
					145	0.347139	10593.1	9425.6	127.69
					146	0.344531	10615.3	9438.9	127.85
					147	0.341965	10637.4	9452.2	128.00
					148	0.339439	10659.6	9465.5	128.15
					149	0.336953	10681.6	9478.8	128.30
					150	0.334506	10703.7	9492.0	128.44
					151	0.332097	10725.7	9505.3	128.59
					152	0.329724	10747.7	9518.5	128.73
					153	0.327388	10769.7	9531.7	128.88
					154	0.325086	10791.7	9544.9	129.02
					155	0.322819	10813.7	9558.1	129.16
					156	0.320585	10835.6	9571.3	129.31
					157	0.318384	10857.5	9584.5	129.45
					158	0.316215	10879.4	9597.6	129.58
					159	0.314076	10901.2	9610.7	129.72
					160	0.311969	10923.1	9623.9	129.86
86	35.1113	2920.0	2908.5	53.90					
87	34.9602	2965.7	2954.1	54.43					
88	34.8074	3011.5	2999.9	54.95					
89	34.6529	3057.6	3045.9	55.47					
90	34.4966	3103.8	3092.0	55.99					

\* PHASE CHANGE

## 4.00 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	0.309891	10944.9	9637.0	130.00	231	0.212534	12444.0	10537.0	137.73
162	0.307842	10966.7	9650.1	130.13	232	0.211595	12465.2	10549.7	137.82
163	0.305821	10988.5	9663.2	130.26	233	0.210664	12486.3	10562.4	137.92
164	0.303829	11010.3	9676.3	130.40	234	0.209742	12507.5	10575.0	138.01
165	0.301863	11032.0	9689.3	130.53	235	0.208828	12528.6	10587.7	138.10
166	0.299924	11053.8	9702.4	130.66	236	0.207922	12549.8	10600.4	138.19
167	0.298012	11075.5	9715.4	130.79	237	0.207024	12570.9	10613.1	138.28
168	0.296124	11097.2	9728.5	130.92	238	0.206134	12592.1	10625.8	138.36
169	0.294262	11118.9	9741.5	131.05	239	0.205251	12613.2	10638.5	138.45
170	0.292424	11140.6	9754.5	131.18	240	0.204376	12634.3	10651.2	138.54
171	0.290611	11162.2	9767.5	131.30	241	0.203509	12655.4	10663.8	138.63
172	0.288820	11183.9	9780.5	131.43	242	0.202649	12676.6	10676.5	138.72
173	0.287053	11205.5	9793.5	131.56	243	0.201797	12697.7	10689.2	138.80
174	0.285308	11227.1	9806.5	131.68	244	0.200952	12718.8	10701.8	138.89
175	0.283585	11248.7	9819.5	131.80	245	0.200114	12739.9	10714.5	138.98
176	0.281884	11270.3	9832.5	131.93	246	0.199283	12761.0	10727.2	139.06
177	0.280204	11291.9	9845.4	132.05	247	0.198460	12782.1	10739.8	139.15
178	0.278545	11313.5	9858.4	132.17	248	0.197643	12803.2	10752.5	139.23
179	0.276906	11335.0	9871.3	132.29	249	0.196833	12824.3	10765.2	139.32
180	0.275288	11356.6	9884.3	132.41	250	0.196029	12845.4	10777.8	139.40
181	0.273688	11378.1	9897.2	132.53	251	0.195233	12866.5	10790.5	139.49
182	0.272109	11399.6	9910.1	132.65	252	0.194443	12887.6	10803.1	139.57
183	0.270548	11421.1	9923.0	132.77	253	0.193659	12908.7	10815.8	139.65
184	0.269005	11442.6	9935.9	132.89	254	0.192882	12929.8	10828.4	139.74
185	0.267481	11464.1	9948.8	133.00	255	0.192111	12950.8	10841.1	139.82
186	0.265974	11485.6	9961.7	133.12	256	0.191346	12971.9	10853.7	139.90
187	0.264486	11507.1	9974.6	133.23	257	0.190588	12993.0	10866.4	139.99
188	0.263014	11528.5	9987.5	133.35	258	0.189835	13014.1	10879.0	140.07
189	0.261559	11550.0	10000.4	133.46	259	0.189089	13035.1	10891.6	140.15
190	0.260121	11571.4	10013.3	133.57	260	0.188348	13056.2	10904.3	140.23
191	0.258699	11592.8	10026.1	133.69	261	0.187614	13077.3	10916.9	140.31
192	0.257293	11614.3	10039.0	133.80	262	0.186885	13098.3	10929.5	140.39
193	0.255903	11635.7	10051.8	133.91	263	0.186162	13119.4	10942.2	140.47
194	0.254529	11657.1	10064.7	134.02	264	0.185445	13140.4	10954.8	140.55
195	0.253169	11678.5	10077.5	134.13	265	0.184733	13161.5	10967.4	140.63
196	0.251825	11699.8	10090.4	134.24	266	0.184027	13182.5	10980.1	140.71
197	0.250495	11721.2	10103.2	134.35	267	0.183326	13203.6	10992.7	140.79
198	0.249180	11742.6	10116.0	134.46	268	0.182630	13224.6	11005.3	140.87
199	0.247879	11764.0	10128.8	134.56	269	0.181940	13245.7	11017.9	140.95
200	0.246591	11785.3	10141.7	134.67	270	0.181255	13266.7	11030.6	141.02
201	0.245318	11806.6	10154.5	134.78	271	0.180576	13287.7	11043.2	141.10
202	0.244058	11828.0	10167.3	134.88	272	0.179901	13308.8	11055.8	141.18
203	0.242811	11849.3	10180.1	134.99	273	0.179232	13329.8	11068.4	141.26
204	0.241578	11870.6	10192.9	135.09	274	0.178568	13350.8	11081.0	141.33
205	0.240357	11891.9	10205.7	135.20	275	0.177908	13371.8	11093.6	141.41
206	0.239149	11913.3	10218.5	135.30	276	0.177254	13392.9	11106.3	141.49
207	0.237953	11934.6	10231.2	135.40	277	0.176604	13413.9	11118.9	141.56
208	0.236770	11955.9	10244.0	135.51	278	0.175960	13434.9	11131.5	141.64
209	0.235599	11977.1	10256.8	135.61	279	0.175320	13455.9	11144.1	141.71
210	0.234439	11998.4	10269.6	135.71	280	0.174684	13476.9	11156.7	141.79
211	0.233291	12019.7	10282.3	135.81	281	0.174054	13498.0	11169.3	141.86
212	0.232155	12041.0	10295.1	135.91	282	0.173428	13519.0	11181.9	141.94
213	0.231030	12062.2	10307.9	136.01	283	0.172806	13540.0	11194.5	142.01
214	0.229916	12083.5	10320.6	136.11	284	0.172189	13561.0	11207.1	142.09
215	0.228813	12104.7	10333.4	136.21	285	0.171577	13582.0	11219.7	142.16
216	0.227721	12126.0	10346.1	136.31	286	0.170968	13603.0	11232.3	142.23
217	0.226640	12147.2	10358.9	136.41	287	0.170365	13624.0	11244.9	142.31
218	0.225569	12168.4	10371.6	136.51	288	0.169765	13645.0	11257.5	142.38
219	0.224508	12189.7	10384.3	136.60	289	0.169170	13666.0	11270.1	142.45
220	0.223458	12210.9	10397.1	136.70	290	0.168579	13687.0	11282.7	142.53
221	0.222418	12232.1	10409.8	136.80	291	0.167992	13708.0	11295.3	142.60
222	0.221387	12253.3	10422.5	136.89	292	0.167409	13729.0	11307.9	142.67
223	0.220366	12274.5	10435.3	136.99	293	0.166831	13750.0	11320.5	142.74
224	0.219355	12295.7	10448.0	137.08	294	0.166256	13770.9	11333.1	142.81
225	0.218353	12316.9	10460.7	137.18	295	0.165685	13791.9	11345.7	142.88
226	0.217361	12338.1	10473.4	137.27	296	0.165119	13812.9	11358.2	142.96
227	0.216378	12359.3	10486.1	137.36	297	0.164556	13833.9	11370.8	143.03
228	0.215404	12380.5	10498.8	137.46	298	0.163997	13854.9	11383.4	143.10
229	0.214438	12401.7	10511.6	137.55	299	0.163442	13875.9	11396.0	143.17
230	0.213482	12422.8	10524.3	137.64	300	0.162890	13896.8	11408.6	143.24