70.00 ATMOSPHERE ISOBAR

| | TEMP. K | DENSITY MOL/LITER | ENTHALPY J/MOL | INTERNAL ENERGY J/MOL | ENTROPY J/MOL-K |
|---|---|---|---|---|---|
| * | 85.542 | 35.6494 | 3022.1 | 2823.2 | 52.89 |
| | 86 | 35.5851 | 3042.4 | 2843.1 | 53.12 |
| | 87 | 35.4438 | 3086.7 | 2886.6 | 53.64 |
| | 88 | 35.3010 | 3131.2 | 2930.3 | 54.14 |
| | 89 | 35.1570 | 3175.9 | 2974.2 | 54.65 |
| | 90 | 35.0117 | 3220.8 | 3018.2 | 55.15 |
| | 91 | 34.8651 | 3265.9 | 3062.5 | 55.65 |
| | 92 | 34.7174 | 3311.1 | 3106.8 | 56.14 |
| | 93 | 34.5686 | 3356.5 | 3151.3 | 56.63 |
| | 94 | 34.4186 | 3402.0 | 3195.9 | 57.12 |
| | 95 | 34.2675 | 3447.7 | 3240.7 | 57.60 |
| | 96 | 34.1154 | 3493.4 | 3285.5 | 58.08 |
| | 97 | 33.9621 | 3539.3 | 3330.5 | 58.56 |
| | 98 | 33.8078 | 3585.4 | 3375.6 | 59.03 |
| | 99 | 33.6525 | 3631.5 | 3420.7 | 59.50 |
| | 100 | 33.4960 | 3677.7 | 3465.9 | 59.96 |
| | 101 | 33.3385 | 3724.0 | 3511.2 | 60.42 |
| | 102 | 33.1798 | 3770.3 | 3556.6 | 60.88 |
| | 103 | 33.0201 | 3816.8 | 3602.0 | 61.33 |
| | 104 | 32.8592 | 3863.3 | 3647.4 | 61.78 |
| | 105 | 32.6971 | 3909.9 | 3692.9 | 62.23 |
| | 106 | 32.5338 | 3956.5 | 3738.5 | 62.67 |
| | 107 | 32.3693 | 4003.2 | 3784.0 | 63.11 |
| | 108 | 32.2036 | 4049.9 | 3829.7 | 63.54 |
| | 109 | 32.0365 | 4096.7 | 3875.3 | 63.97 |
| | 110 | 31.8681 | 4143.5 | 3921.0 | 64.40 |
| | 111 | 31.6982 | 4190.4 | 3966.7 | 64.83 |
| | 112 | 31.5269 | 4237.4 | 4012.4 | 65.25 |
| | 113 | 31.3541 | 4284.4 | 4058.2 | 65.67 |
| | 114 | 31.1798 | 4331.5 | 4104.0 | 66.08 |
| | 115 | 31.0038 | 4378.6 | 4149.8 | 66.49 |
| | 116 | 30.8260 | 4425.8 | 4195.7 | 66.90 |
| | 117 | 30.6465 | 4473.2 | 4241.7 | 67.31 |
| | 118 | 30.4651 | 4520.6 | 4287.8 | 67.71 |
| | 119 | 30.2817 | 4568.1 | 4333.9 | 68.11 |
| | 120 | 30.0963 | 4615.8 | 4380.1 | 68.51 |
| | 121 | 29.9087 | 4663.6 | 4426.5 | 68.91 |
| | 122 | 29.7188 | 4711.7 | 4473.0 | 69.30 |
| | 123 | 29.5265 | 4759.9 | 4519.7 | 69.70 |
| | 124 | 29.3317 | 4808.4 | 4566.5 | 70.09 |
| | 125 | 29.1342 | 4857.1 | 4613.6 | 70.48 |
| | 126 | 28.9339 | 4906.1 | 4661.0 | 70.87 |
| | 127 | 28.7306 | 4955.5 | 4708.6 | 71.26 |
| | 128 | 28.5241 | 5005.2 | 4756.6 | 71.65 |
| | 129 | 28.3142 | 5055.4 | 4804.9 | 72.04 |
| | 130 | 28.1007 | 5106.1 | 4853.7 | 72.43 |
| | 131 | 27.8835 | 5157.4 | 4903.0 | 72.83 |
| | 132 | 27.6621 | 5209.3 | 4952.9 | 73.22 |
| | 133 | 27.4364 | 5261.8 | 5003.3 | 73.62 |
| | 134 | 27.2059 | 5315.2 | 5054.5 | 74.02 |
| | 135 | 26.9705 | 5369.4 | 5106.4 | 74.42 |
| | 136 | 26.7296 | 5424.1 | 5158.8 | 74.82 |
| | 137 | 26.4828 | 5479.6 | 5211.7 | 75.23 |
| | 138 | 26.2297 | 5535.8 | 5265.4 | 75.64 |
| | 139 | 25.9696 | 5593.0 | 5319.8 | 76.05 |
| | 140 | 25.7021 | 5651.0 | 5375.0 | 76.47 |
| | 141 | 25.4262 | 5710.0 | 5431.0 | 76.89 |
| | 142 | 25.1412 | 5770.2 | 5488.1 | 77.32 |
| | 143 | 24.8462 | 5831.8 | 5546.3 | 77.75 |
| | 144 | 24.5400 | 5895.0 | 5605.9 | 78.19 |
| | 145 | 24.2214 | 5960.0 | 5667.2 | 78.64 |
| | 146 | 23.8886 | 6027.1 | 5730.2 | 79.10 |
| | 147 | 23.5400 | 6096.6 | 5795.3 | 79.58 |
| | 148 | 23.1733 | 6168.8 | 5862.8 | 80.07 |
| | 149 | 22.7856 | 6244.1 | 5932.8 | 80.58 |
| | 150 | 22.3738 | 6322.9 | 6005.9 | 81.11 |
| | 151 | 21.9334 | 6406.3 | 6082.9 | 81.67 |
| | 152 | 21.4593 | 6495.2 | 6164.7 | 82.25 |
| | 153 | 20.9446 | 6590.2 | 6251.5 | 82.88 |
| | 154 | 20.3808 | 6692.6 | 6344.5 | 83.54 |
| | 155 | 19.7570 | 6804.1 | 6445.1 | 84.27 |
| | 156 | 19.0601 | 6927.1 | 6554.9 | 85.06 |
| | 157 | 18.2761 | 7064.0 | 6675.9 | 85.93 |
| | 158 | 17.3953 | 7217.2 | 6809.5 | 86.90 |
| | 159 | 16.4234 | 7387.4 | 6955.5 | 87.98 |
| | 160 | 15.3952 | 7571.0 | 7110.3 | 89.13 |

* PHASE CHANGE

70.00 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 | 14.3725 | 7760.2 | 7266.6 | 90.31 | 231 | 4.18861 | 11601.6 | 9908.2 | 111.24 |
| 162 | 13.4174 | 7945.3 | 7416.7 | 91.45 | 232 | 4.16082 | 11631.0 | 9926.3 | 111.37 |
| 163 | 12.5661 | 8119.7 | 7555.2 | 92.53 | 233 | 4.13351 | 11660.2 | 9944.2 | 111.50 |
| 164 | 11.8273 | 8280.0 | 7680.3 | 93.51 | 234 | 4.10665 | 11689.3 | 9962.1 | 111.62 |
| 165 | 11.1926 | 8425.8 | 7792.1 | 94.39 | 235 | 4.08025 | 11718.2 | 9979.9 | 111.75 |
| 166 | 10.6475 | 8558.2 | 7892.1 | 95.19 | 236 | 4.05428 | 11747.1 | 9997.6 | 111.87 |
| 167 | 10.1767 | 8678.8 | 7981.8 | 95.92 | 237 | 4.02873 | 11775.7 | 10015.2 | 111.99 |
| 168 | 9.76684 | 8789.2 | 8062.9 | 96.58 | 238 | 4.00359 | 11804.3 | 10032.7 | 112.11 |
| 169 | 9.40667 | 8890.8 | 8136.8 | 97.18 | 239 | 3.97885 | 11832.7 | 10050.1 | 112.23 |
| 170 | 9.08737 | 8985.1 | 8204.6 | 97.74 | 240 | 3.95450 | 11861.1 | 10067.4 | 112.35 |
| 171 | 8.80189 | 9073.0 | 8267.2 | 98.25 | 241 | 3.93053 | 11889.3 | 10084.7 | 112.46 |
| 172 | 8.54466 | 9155.5 | 8325.4 | 98.73 | 242 | 3.90692 | 11917.4 | 10101.9 | 112.58 |
| 173 | 8.31125 | 9233.3 | 8379.9 | 99.18 | 243 | 3.88367 | 11945.4 | 10119.0 | 112.70 |
| 174 | 8.09809 | 9307.0 | 8431.1 | 99.61 | 244 | 3.86077 | 11973.2 | 10136.0 | 112.81 |
| 175 | 7.90233 | 9377.1 | 8479.5 | 100.01 | 245 | 3.83820 | 12001.0 | 10153.0 | 112.92 |
| 176 | 7.72161 | 9444.1 | 8525.5 | 100.39 | 246 | 3.81597 | 12028.7 | 10169.9 | 113.04 |
| 177 | 7.55401 | 9508.2 | 8569.2 | 100.76 | 247 | 3.79406 | 12056.2 | 10186.7 | 113.15 |
| 178 | 7.39794 | 9569.8 | 8611.0 | 101.10 | 248 | 3.77246 | 12083.7 | 10203.5 | 113.26 |
| 179 | 7.25204 | 9629.1 | 8651.1 | 101.44 | 249 | 3.75117 | 12111.1 | 10220.2 | 113.37 |
| 180 | 7.11519 | 9686.5 | 8689.6 | 101.75 | 250 | 3.73018 | 12138.3 | 10236.8 | 113.48 |
| 181 | 6.98643 | 9741.9 | 8726.7 | 102.06 | 251 | 3.70947 | 12165.5 | 10253.4 | 113.59 |
| 182 | 6.86494 | 9795.7 | 8762.5 | 102.36 | 252 | 3.68906 | 12192.6 | 10269.9 | 113.69 |
| 183 | 6.75002 | 9848.0 | 8797.2 | 102.65 | 253 | 3.66892 | 12219.6 | 10286.4 | 113.80 |
| 184 | 6.64104 | 9898.9 | 8830.8 | 102.92 | 254 | 3.64905 | 12246.5 | 10302.8 | 113.91 |
| 185 | 6.53747 | 9948.4 | 8863.5 | 103.19 | 255 | 3.62944 | 12273.4 | 10319.1 | 114.01 |
| 186 | 6.43885 | 9996.8 | 8895.2 | 103.45 | 256 | 3.61010 | 12300.1 | 10335.4 | 114.12 |
| 187 | 6.34477 | 10044.1 | 8926.2 | 103.71 | 257 | 3.59100 | 12326.8 | 10351.6 | 114.22 |
| 188 | 6.25486 | 10090.3 | 8956.3 | 103.95 | 258 | 3.57216 | 12353.4 | 10367.8 | 114.33 |
| 189 | 6.16879 | 10135.6 | 8985.8 | 104.19 | 259 | 3.55355 | 12379.9 | 10383.9 | 114.43 |
| 190 | 6.08628 | 10180.0 | 9014.6 | 104.43 | 260 | 3.53518 | 12406.4 | 10400.0 | 114.53 |
| 191 | 6.00707 | 10223.5 | 9042.8 | 104.65 | 261 | 3.51705 | 12432.8 | 10416.0 | 114.63 |
| 192 | 5.93093 | 10266.3 | 9070.4 | 104.88 | 262 | 3.49913 | 12459.1 | 10432.0 | 114.73 |
| 193 | 5.85764 | 10308.3 | 9097.5 | 105.10 | 263 | 3.48145 | 12485.3 | 10447.9 | 114.83 |
| 194 | 5.78703 | 10349.7 | 9124.0 | 105.31 | 264 | 3.46397 | 12511.5 | 10463.8 | 114.93 |
| 195 | 5.71892 | 10390.4 | 9150.1 | 105.52 | 265 | 3.44671 | 12537.6 | 10479.7 | 115.03 |
| 196 | 5.65314 | 10430.5 | 9175.8 | 105.72 | 266 | 3.42966 | 12563.6 | 10495.5 | 115.13 |
| 197 | 5.58957 | 10470.0 | 9201.0 | 105.93 | 267 | 3.41281 | 12589.5 | 10511.2 | 115.23 |
| 198 | 5.52807 | 10508.9 | 9225.8 | 106.12 | 268 | 3.39616 | 12615.4 | 10526.9 | 115.32 |
| 199 | 5.46852 | 10547.3 | 9250.3 | 106.32 | 269 | 3.37970 | 12641.3 | 10542.6 | 115.42 |
| 200 | 5.41081 | 10585.2 | 9274.4 | 106.51 | 270 | 3.36344 | 12667.1 | 10558.2 | 115.51 |
| 201 | 5.35485 | 10622.7 | 9298.1 | 106.69 | 271 | 3.34736 | 12692.8 | 10573.8 | 115.61 |
| 202 | 5.30053 | 10659.7 | 9321.5 | 106.88 | 272 | 3.33147 | 12718.4 | 10589.4 | 115.70 |
| 203 | 5.24778 | 10696.3 | 9344.7 | 107.06 | 273 | 3.31576 | 12744.0 | 10604.9 | 115.80 |
| 204 | 5.19650 | 10732.4 | 9367.5 | 107.24 | 274 | 3.30022 | 12769.6 | 10620.3 | 115.89 |
| 205 | 5.14664 | 10768.2 | 9390.1 | 107.41 | 275 | 3.28486 | 12795.1 | 10635.8 | 115.98 |
| 206 | 5.09812 | 10803.6 | 9412.3 | 107.58 | 276 | 3.26966 | 12820.5 | 10651.2 | 116.08 |
| 207 | 5.05088 | 10838.7 | 9434.4 | 107.75 | 277 | 3.25464 | 12845.9 | 10666.5 | 116.17 |
| 208 | 5.00485 | 10873.4 | 9456.2 | 107.92 | 278 | 3.23978 | 12871.2 | 10681.9 | 116.26 |
| 209 | 4.95999 | 10907.8 | 9477.7 | 108.08 | 279 | 3.22508 | 12896.5 | 10697.2 | 116.35 |
| 210 | 4.91624 | 10941.8 | 9499.1 | 108.25 | 280 | 3.21053 | 12921.7 | 10712.4 | 116.44 |
| 211 | 4.87355 | 10975.6 | 9520.2 | 108.41 | 281 | 3.19614 | 12946.9 | 10727.7 | 116.53 |
| 212 | 4.83188 | 11009.0 | 9541.1 | 108.57 | 282 | 3.18191 | 12972.0 | 10742.9 | 116.62 |
| 213 | 4.79118 | 11042.2 | 9561.8 | 108.72 | 283 | 3.16782 | 12997.1 | 10758.0 | 116.71 |
| 214 | 4.75141 | 11075.2 | 9582.4 | 108.88 | 284 | 3.15388 | 13022.1 | 10773.2 | 116.80 |
| 215 | 4.71255 | 11107.8 | 9602.7 | 109.03 | 285 | 3.14009 | 13047.1 | 10788.3 | 116.88 |
| 216 | 4.67454 | 11140.2 | 9622.9 | 109.18 | 286 | 3.12643 | 13072.0 | 10803.3 | 116.97 |
| 217 | 4.63736 | 11172.4 | 9642.9 | 109.33 | 287 | 3.11292 | 13096.9 | 10818.4 | 117.06 |
| 218 | 4.60097 | 11204.3 | 9662.7 | 109.47 | 288 | 3.09954 | 13121.8 | 10833.4 | 117.14 |
| 219 | 4.56535 | 11236.1 | 9682.4 | 109.62 | 289 | 3.08629 | 13146.6 | 10848.4 | 117.23 |
| 220 | 4.53046 | 11267.6 | 9701.9 | 109.76 | 290 | 3.07318 | 13171.3 | 10863.3 | 117.32 |
| 221 | 4.49629 | 11298.8 | 9721.3 | 109.90 | 291 | 3.06020 | 13196.1 | 10878.3 | 117.40 |
| 222 | 4.46280 | 11329.9 | 9740.6 | 110.04 | 292 | 3.04735 | 13220.7 | 10893.2 | 117.49 |
| 223 | 4.42997 | 11360.8 | 9759.7 | 110.18 | 293 | 3.03462 | 13245.4 | 10908.0 | 117.57 |
| 224 | 4.39778 | 11391.5 | 9778.7 | 110.32 | 294 | 3.02201 | 13270.0 | 10922.9 | 117.65 |
| 225 | 4.36621 | 11422.0 | 9797.5 | 110.46 | 295 | 3.00953 | 13294.5 | 10937.7 | 117.74 |
| 226 | 4.33523 | 11452.4 | 9816.3 | 110.59 | 296 | 2.99717 | 13319.0 | 10952.5 | 117.82 |
| 227 | 4.30483 | 11482.5 | 9834.9 | 110.72 | 297 | 2.98492 | 13343.5 | 10967.3 | 117.90 |
| 228 | 4.27498 | 11512.5 | 9853.4 | 110.86 | 298 | 2.97279 | 13368.0 | 10982.0 | 117.98 |
| 229 | 4.24567 | 11542.4 | 9871.8 | 110.99 | 299 | 2.96078 | 13392.4 | 10996.7 | 118.07 |
| 230 | 4.21689 | 11572.1 | 9890.0 | 111.12 | 300 | 2.94887 | 13416.8 | 11011.4 | 118.15 |