

**Table 1. Saturation (Temperature)**

| $t_s, ^\circ\text{C}$ | $p, \text{MPa}$ | Density, $\text{kg/m}^3$ |           | Enthalpy, $\text{kJ/kg}$ |        |            | Entropy, $\text{kJ/(kg}\cdot\text{K)}$ |        |            | Volume, $\text{cm}^3/\text{g}$ |          |
|-----------------------|-----------------|--------------------------|-----------|--------------------------|--------|------------|--|--------|------------|--------------------------------|----------|
|                       |                 | $\rho_L$                 | $\rho_V$  | $h_L$                    | $h_V$  | $\Delta h$ | $s_L$                                  | $s_V$  | $\Delta s$ | $v_L$                          | $v_V$    |
| <b>0.01</b>           | 0.000 611 7     | 999.79                   | 0.004 855 | 0.00                     | 2500.9 | 2500.9     | 0.000 00                               | 9.1555 | 9.1555     | 1.000 21                       | 205 991. |
| <b>1</b>              | 0.000 657 1     | 999.85                   | 0.005 196 | 4.18                     | 2502.7 | 2498.6     | 0.015 26                               | 9.1291 | 9.1138     | 1.000 15                       | 192 439. |
| <b>2</b>              | 0.000 706 0     | 999.89                   | 0.005 563 | 8.39                     | 2504.6 | 2496.2     | 0.030 61                               | 9.1027 | 9.0720     | 1.000 11                       | 179 758. |
| <b>3</b>              | 0.000 758 1     | 999.92                   | 0.005 952 | 12.60                    | 2506.4 | 2493.8     | 0.045 89                               | 9.0765 | 9.0306     | 1.000 08                       | 168 008. |
| <b>4</b>              | 0.000 813 5     | 999.93                   | 0.006 365 | 16.81                    | 2508.2 | 2491.4     | 0.061 10                               | 9.0505 | 8.9894     | 1.000 07                       | 157 116. |
| <b>5</b>              | 0.000 872 6     | 999.92                   | 0.006 802 | 21.02                    | 2510.1 | 2489.0     | 0.076 25                               | 9.0248 | 8.9486     | 1.000 08                       | 147 011. |
| <b>6</b>              | 0.000 935 4     | 999.89                   | 0.007 266 | 25.22                    | 2511.9 | 2486.7     | 0.091 34                               | 8.9993 | 8.9080     | 1.000 11                       | 137 633. |
| <b>7</b>              | 0.001 002 1     | 999.86                   | 0.007 757 | 29.43                    | 2513.7 | 2484.3     | 0.106 37                               | 8.9741 | 8.8677     | 1.000 14                       | 128 923. |
| <b>8</b>              | 0.001 073 0     | 999.80                   | 0.008 276 | 33.63                    | 2515.6 | 2481.9     | 0.121 33                               | 8.9491 | 8.8278     | 1.000 20                       | 120 829. |
| <b>9</b>              | 0.001 148 3     | 999.74                   | 0.008 826 | 37.82                    | 2517.4 | 2479.6     | 0.136 24                               | 8.9243 | 8.7881     | 1.000 26                       | 113 304. |
| <b>10</b>             | 0.001 228 2     | 999.65                   | 0.009 407 | 42.02                    | 2519.2 | 2477.2     | 0.151 09                               | 8.8998 | 8.7487     | 1.000 35                       | 106 303. |
| <b>11</b>             | 0.001 313 0     | 999.56                   | 0.010 021 | 46.22                    | 2521.0 | 2474.8     | 0.165 87                               | 8.8754 | 8.7096     | 1.000 44                       | 99 787.  |
| <b>12</b>             | 0.001 402 8     | 999.45                   | 0.010 670 | 50.41                    | 2522.9 | 2472.5     | 0.180 61                               | 8.8513 | 8.6707     | 1.000 55                       | 93 719.  |
| <b>13</b>             | 0.001 498 1     | 999.33                   | 0.011 355 | 54.60                    | 2524.7 | 2470.1     | 0.195 28                               | 8.8274 | 8.6321     | 1.000 67                       | 88 064.  |
| <b>14</b>             | 0.001 599 0     | 999.20                   | 0.012 078 | 58.79                    | 2526.5 | 2467.7     | 0.209 90                               | 8.8037 | 8.5938     | 1.000 80                       | 82 793.  |
| <b>15</b>             | 0.001 705 8     | 999.06                   | 0.012 841 | 62.98                    | 2528.3 | 2465.4     | 0.224 46                               | 8.7803 | 8.5558     | 1.000 94                       | 77 875.  |
| <b>16</b>             | 0.001 818 8     | 998.90                   | 0.013 645 | 67.17                    | 2530.2 | 2463.0     | 0.238 97                               | 8.7570 | 8.5180     | 1.001 10                       | 73 286.  |
| <b>17</b>             | 0.001 938 4     | 998.73                   | 0.014 493 | 71.36                    | 2532.0 | 2460.6     | 0.253 43                               | 8.7339 | 8.4805     | 1.001 27                       | 69 001.  |
| <b>18</b>             | 0.002 064 7     | 998.55                   | 0.015 385 | 75.54                    | 2533.8 | 2458.3     | 0.267 83                               | 8.7111 | 8.4433     | 1.001 45                       | 64 998.  |
| <b>19</b>             | 0.002 198 3     | 998.36                   | 0.016 325 | 79.73                    | 2535.6 | 2455.9     | 0.282 18                               | 8.6884 | 8.4063     | 1.001 64                       | 61 256.  |
| <b>20</b>             | 0.002 339 3     | 998.16                   | 0.017 314 | 83.91                    | 2537.4 | 2453.5     | 0.296 48                               | 8.6660 | 8.3695     | 1.001 84                       | 57 757.  |
| <b>21</b>             | 0.002 488 2     | 997.95                   | 0.018 354 | 88.10                    | 2539.3 | 2451.2     | 0.310 73                               | 8.6437 | 8.3330     | 1.002 05                       | 54 483.  |
| <b>22</b>             | 0.002 645 3     | 997.73                   | 0.019 448 | 92.28                    | 2541.1 | 2448.8     | 0.324 93                               | 8.6217 | 8.2967     | 1.002 28                       | 51 418.  |
| <b>23</b>             | 0.002 811 1     | 997.50                   | 0.020 598 | 96.46                    | 2542.9 | 2446.4     | 0.339 08                               | 8.5998 | 8.2607     | 1.002 51                       | 48 548.  |
| <b>24</b>             | 0.002 985 8     | 997.25                   | 0.021 806 | 100.65                   | 2544.7 | 2444.0     | 0.353 18                               | 8.5781 | 8.2250     | 1.002 75                       | 45 858.  |
| <b>25</b>             | 0.003 169 9     | 997.00                   | 0.023 075 | 104.83                   | 2546.5 | 2441.7     | 0.367 22                               | 8.5566 | 8.1894     | 1.003 01                       | 43 337.  |
| <b>26</b>             | 0.003 363 9     | 996.74                   | 0.024 406 | 109.01                   | 2548.3 | 2439.3     | 0.381 23                               | 8.5353 | 8.1541     | 1.003 27                       | 40 973.  |
| <b>27</b>             | 0.003 568 1     | 996.47                   | 0.025 804 | 113.19                   | 2550.1 | 2436.9     | 0.395 18                               | 8.5142 | 8.1191     | 1.003 54                       | 38 754.  |
| <b>28</b>             | 0.003 783 1     | 996.19                   | 0.027 269 | 117.37                   | 2551.9 | 2434.6     | 0.409 08                               | 8.4933 | 8.0842     | 1.003 82                       | 36 672.  |
| <b>29</b>             | 0.004 009 2     | 995.90                   | 0.028 805 | 121.55                   | 2553.7 | 2432.2     | 0.422 94                               | 8.4725 | 8.0496     | 1.004 11                       | 34 716.  |
| <b>30</b>             | 0.004 247 0     | 995.61                   | 0.030 415 | 125.73                   | 2555.5 | 2429.8     | 0.436 75                               | 8.4520 | 8.0152     | 1.004 41                       | 32 878.  |
| <b>31</b>             | 0.004 496 9     | 995.30                   | 0.032 102 | 129.91                   | 2557.3 | 2427.4     | 0.450 52                               | 8.4316 | 7.9810     | 1.004 72                       | 31 151.  |
| <b>32</b>             | 0.004 759 6     | 994.99                   | 0.033 868 | 134.09                   | 2559.2 | 2425.1     | 0.464 24                               | 8.4113 | 7.9471     | 1.005 04                       | 29 526.  |
| <b>33</b>             | 0.005 035 4     | 994.66                   | 0.035 717 | 138.27                   | 2561.0 | 2422.7     | 0.477 92                               | 8.3913 | 7.9134     | 1.005 37                       | 27 998.  |
| <b>34</b>             | 0.005 325 1     | 994.33                   | 0.037 651 | 142.45                   | 2562.8 | 2420.3     | 0.491 55                               | 8.3714 | 7.8799     | 1.005 70                       | 26 560.  |
| <b>35</b>             | 0.005 629 0     | 993.99                   | 0.039 674 | 146.63                   | 2564.5 | 2417.9     | 0.505 13                               | 8.3517 | 7.8466     | 1.006 05                       | 25 205.  |
| <b>36</b>             | 0.005 947 9     | 993.64                   | 0.041 790 | 150.81                   | 2566.3 | 2415.5     | 0.518 67                               | 8.3321 | 7.8135     | 1.006 40                       | 23 929.  |
| <b>37</b>             | 0.006 282 3     | 993.29                   | 0.044 001 | 154.99                   | 2568.1 | 2413.1     | 0.532 17                               | 8.3127 | 7.7806     | 1.006 76                       | 22 727.  |
| <b>38</b>             | 0.006 632 8     | 992.92                   | 0.046 311 | 159.17                   | 2569.9 | 2410.8     | 0.545 62                               | 8.2935 | 7.7479     | 1.007 13                       | 21 593.  |
| <b>39</b>             | 0.007 000 2     | 992.55                   | 0.048 723 | 163.35                   | 2571.7 | 2408.4     | 0.559 03                               | 8.2745 | 7.7154     | 1.007 50                       | 20 524.  |
| <b>40</b>             | 0.007 384 9     | 992.18                   | 0.051 242 | 167.53                   | 2573.5 | 2406.0     | 0.572 40                               | 8.2555 | 7.6831     | 1.007 89                       | 19 515.  |
| <b>41</b>             | 0.007 787 8     | 991.79                   | 0.053 871 | 171.71                   | 2575.3 | 2403.6     | 0.585 73                               | 8.2368 | 7.6511     | 1.008 28                       | 18 563.  |
| <b>42</b>             | 0.008 209 6     | 991.40                   | 0.056 614 | 175.89                   | 2577.1 | 2401.2     | 0.599 01                               | 8.2182 | 7.6192     | 1.008 68                       | 17 664.  |
| <b>43</b>             | 0.008 650 8     | 991.00                   | 0.059 474 | 180.07                   | 2578.9 | 2398.8     | 0.612 25                               | 8.1998 | 7.5875     | 1.009 09                       | 16 814.  |
| <b>44</b>             | 0.009 112 4     | 990.59                   | 0.062 457 | 184.25                   | 2580.6 | 2396.4     | 0.625 45                               | 8.1815 | 7.5560     | 1.009 50                       | 16 011.  |
| <b>45</b>             | 0.009 595 0     | 990.17                   | 0.065 565 | 188.43                   | 2582.4 | 2394.0     | 0.638 61                               | 8.1633 | 7.5247     | 1.009 92                       | 15 252.  |
| <b>46</b>             | 0.010 099       | 989.75                   | 0.068 803 | 192.62                   | 2584.2 | 2391.6     | 0.651 73                               | 8.1453 | 7.4936     | 1.010 36                       | 14 534.  |
| <b>47</b>             | 0.010 627       | 989.32                   | 0.072 176 | 196.80                   | 2586.0 | 2389.2     | 0.664 81                               | 8.1275 | 7.4627     | 1.010 79                       | 13 855.  |
| <b>48</b>             | 0.011 177       | 988.89                   | 0.075 688 | 200.98                   | 2587.8 | 2386.8     | 0.677 85                               | 8.1098 | 7.4320     | 1.011 24                       | 13 212.  |
| <b>49</b>             | 0.011 752       | 988.44                   | 0.079 343 | 205.16                   | 2589.5 | 2384.4     | 0.690 85                               | 8.0922 | 7.4014     | 1.011 69                       | 12 603.  |
| <b>50</b>             | 0.012 352       | 988.00                   | 0.083 147 | 209.34                   | 2591.3 | 2381.9     | 0.703 81                               | 8.0748 | 7.3710     | 1.012 15                       | 12 027.  |
| <b>51</b>             | 0.012 978       | 987.54                   | 0.087 103 | 213.52                   | 2593.1 | 2379.5     | 0.716 73                               | 8.0576 | 7.3408     | 1.012 62                       | 11 481.  |
| <b>52</b>             | 0.013 631       | 987.08                   | 0.091 217 | 217.71                   | 2594.8 | 2377.1     | 0.729 61                               | 8.0404 | 7.3108     | 1.013 09                       | 10 963.  |
| <b>53</b>             | 0.014 312       | 986.61                   | 0.095 494 | 221.89                   | 2596.6 | 2374.7     | 0.742 45                               | 8.0234 | 7.2810     | 1.013 57                       | 10 472.  |
| <b>54</b>             | 0.015 022       | 986.14                   | 0.099 938 | 226.07                   | 2598.3 | 2372.3     | 0.755 26                               | 8.0066 | 7.2513     | 1.014 06                       | 10 006.  |

**Table 1. Saturation (Temperature) (continued)**

| $t_s$ , °C | $p$ , MPa | Density, kg/m <sup>3</sup> |          | Enthalpy, kJ/kg |        |            | Entropy, kJ/(kg·K) |        |            | Volume, cm <sup>3</sup> /g |        |
|------------|-----------|----------------------------|----------|-----------------|--------|------------|--------------------|--------|------------|----------------------------|--------|
|            |           | $\rho_L$                   | $\rho_V$ | $h_L$           | $h_V$  | $\Delta h$ | $s_L$              | $s_V$  | $\Delta s$ | $v_L$                      | $v_V$  |
| 55         | 0.015 762 | 985.66                     | 0.104 56 | 230.26          | 2600.1 | 2369.8     | 0.768 02           | 7.9898 | 7.2218     | 1.014 55                   | 9564.3 |
| 56         | 0.016 533 | 985.17                     | 0.109 35 | 234.44          | 2601.8 | 2367.4     | 0.780 75           | 7.9732 | 7.1925     | 1.015 05                   | 9144.8 |
| 57         | 0.017 336 | 984.68                     | 0.114 33 | 238.62          | 2603.6 | 2365.0     | 0.793 44           | 7.9568 | 7.1633     | 1.015 56                   | 8746.6 |
| 58         | 0.018 171 | 984.18                     | 0.119 50 | 242.81          | 2605.3 | 2362.5     | 0.806 10           | 7.9404 | 7.1343     | 1.016 08                   | 8368.3 |
| 59         | 0.019 041 | 983.67                     | 0.124 86 | 246.99          | 2607.1 | 2360.1     | 0.818 71           | 7.9242 | 7.1055     | 1.016 60                   | 8008.9 |
| 60         | 0.019 946 | 983.16                     | 0.130 43 | 251.18          | 2608.8 | 2357.7     | 0.831 29           | 7.9081 | 7.0769     | 1.017 13                   | 7667.2 |
| 61         | 0.020 888 | 982.64                     | 0.136 20 | 255.37          | 2610.6 | 2355.2     | 0.843 84           | 7.8922 | 7.0484     | 1.017 66                   | 7342.4 |
| 62         | 0.021 867 | 982.12                     | 0.142 18 | 259.55          | 2612.3 | 2352.8     | 0.856 34           | 7.8764 | 7.0200     | 1.018 21                   | 7033.5 |
| 63         | 0.022 885 | 981.59                     | 0.148 38 | 263.74          | 2614.0 | 2350.3     | 0.868 82           | 7.8607 | 6.9918     | 1.018 75                   | 6739.6 |
| 64         | 0.023 943 | 981.06                     | 0.154 80 | 267.93          | 2615.8 | 2347.8     | 0.881 25           | 7.8451 | 6.9638     | 1.019 31                   | 6459.8 |
| 65         | 0.025 042 | 980.52                     | 0.161 46 | 272.12          | 2617.5 | 2345.4     | 0.893 65           | 7.8296 | 6.9359     | 1.019 87                   | 6193.5 |
| 66         | 0.026 183 | 979.97                     | 0.168 35 | 276.30          | 2619.2 | 2342.9     | 0.906 02           | 7.8142 | 6.9082     | 1.020 44                   | 5939.9 |
| 67         | 0.027 368 | 979.42                     | 0.175 49 | 280.49          | 2621.0 | 2340.5     | 0.918 35           | 7.7990 | 6.8807     | 1.021 01                   | 5698.4 |
| 68         | 0.028 599 | 978.86                     | 0.182 88 | 284.68          | 2622.7 | 2338.0     | 0.930 64           | 7.7839 | 6.8532     | 1.021 59                   | 5468.2 |
| 69         | 0.029 876 | 978.30                     | 0.190 52 | 288.87          | 2624.4 | 2335.5     | 0.942 91           | 7.7689 | 6.8260     | 1.022 18                   | 5248.8 |
| 70         | 0.031 201 | 977.73                     | 0.198 43 | 293.07          | 2626.1 | 2333.0     | 0.955 13           | 7.7540 | 6.7989     | 1.022 77                   | 5039.5 |
| 71         | 0.032 575 | 977.16                     | 0.206 61 | 297.26          | 2627.8 | 2330.5     | 0.967 33           | 7.7392 | 6.7719     | 1.023 37                   | 4840.0 |
| 72         | 0.034 000 | 976.58                     | 0.215 07 | 301.45          | 2629.5 | 2328.1     | 0.979 49           | 7.7246 | 6.7451     | 1.023 98                   | 4649.6 |
| 73         | 0.035 478 | 976.00                     | 0.223 82 | 305.64          | 2631.2 | 2325.6     | 0.991 61           | 7.7100 | 6.7184     | 1.024 59                   | 4468.0 |
| 74         | 0.037 009 | 975.41                     | 0.232 85 | 309.84          | 2632.9 | 2323.1     | 1.0037             | 7.6955 | 6.6918     | 1.025 21                   | 4294.5 |
| 75         | 0.038 595 | 974.81                     | 0.242 19 | 314.03          | 2634.6 | 2320.6     | 1.0158             | 7.6812 | 6.6654     | 1.025 84                   | 4128.9 |
| 76         | 0.040 239 | 974.22                     | 0.251 84 | 318.22          | 2636.3 | 2318.1     | 1.0278             | 7.6670 | 6.6392     | 1.026 47                   | 3970.8 |
| 77         | 0.041 941 | 973.61                     | 0.261 80 | 322.42          | 2638.0 | 2315.6     | 1.0398             | 7.6528 | 6.6130     | 1.027 10                   | 3819.7 |
| 78         | 0.043 703 | 973.00                     | 0.272 09 | 326.62          | 2639.7 | 2313.0     | 1.0517             | 7.6388 | 6.5871     | 1.027 75                   | 3675.2 |
| 79         | 0.045 527 | 972.39                     | 0.282 71 | 330.81          | 2641.3 | 2310.5     | 1.0637             | 7.6249 | 6.5612     | 1.028 40                   | 3537.2 |
| 80         | 0.047 414 | 971.77                     | 0.293 67 | 335.01          | 2643.0 | 2308.0     | 1.0756             | 7.6111 | 6.5355     | 1.029 05                   | 3405.2 |
| 81         | 0.049 367 | 971.14                     | 0.304 98 | 339.21          | 2644.7 | 2305.5     | 1.0874             | 7.5973 | 6.5099     | 1.029 72                   | 3278.9 |
| 82         | 0.051 387 | 970.51                     | 0.316 65 | 343.41          | 2646.4 | 2302.9     | 1.0993             | 7.5837 | 6.4844     | 1.030 38                   | 3158.1 |
| 83         | 0.053 476 | 969.88                     | 0.328 68 | 347.61          | 2648.0 | 2300.4     | 1.1111             | 7.5702 | 6.4591     | 1.031 06                   | 3042.5 |
| 84         | 0.055 635 | 969.24                     | 0.341 09 | 351.81          | 2649.7 | 2297.9     | 1.1229             | 7.5567 | 6.4339     | 1.031 74                   | 2931.8 |
| 85         | 0.057 867 | 968.59                     | 0.353 88 | 356.01          | 2651.3 | 2295.3     | 1.1346             | 7.5434 | 6.4088     | 1.032 43                   | 2825.8 |
| 86         | 0.060 173 | 967.94                     | 0.367 06 | 360.22          | 2653.0 | 2292.8     | 1.1463             | 7.5302 | 6.3838     | 1.033 12                   | 2724.4 |
| 87         | 0.062 556 | 967.29                     | 0.380 64 | 364.42          | 2654.6 | 2290.2     | 1.1580             | 7.5170 | 6.3590     | 1.033 82                   | 2627.1 |
| 88         | 0.065 017 | 966.63                     | 0.394 64 | 368.63          | 2656.3 | 2287.6     | 1.1696             | 7.5040 | 6.3343     | 1.034 52                   | 2534.0 |
| 89         | 0.067 558 | 965.96                     | 0.409 05 | 372.83          | 2657.9 | 2285.1     | 1.1813             | 7.4910 | 6.3097     | 1.035 24                   | 2444.7 |
| 90         | 0.070 182 | 965.30                     | 0.423 90 | 377.04          | 2659.5 | 2282.5     | 1.1929             | 7.4781 | 6.2853     | 1.035 95                   | 2359.1 |
| 91         | 0.072 890 | 964.62                     | 0.439 18 | 381.25          | 2661.2 | 2279.9     | 1.2044             | 7.4653 | 6.2609     | 1.036 68                   | 2277.0 |
| 92         | 0.075 684 | 963.94                     | 0.454 91 | 385.46          | 2662.8 | 2277.3     | 1.2160             | 7.4526 | 6.2367     | 1.037 41                   | 2198.2 |
| 93         | 0.078 568 | 963.26                     | 0.471 11 | 389.67          | 2664.4 | 2274.7     | 1.2275             | 7.4400 | 6.2126     | 1.038 14                   | 2122.7 |
| 94         | 0.081 541 | 962.57                     | 0.487 77 | 393.88          | 2666.0 | 2272.1     | 1.2389             | 7.4275 | 6.1886     | 1.038 88                   | 2050.2 |
| 95         | 0.084 608 | 961.88                     | 0.504 91 | 398.09          | 2667.6 | 2269.5     | 1.2504             | 7.4151 | 6.1647     | 1.039 63                   | 1980.6 |
| 96         | 0.087 771 | 961.18                     | 0.522 54 | 402.30          | 2669.2 | 2266.9     | 1.2618             | 7.4027 | 6.1409     | 1.040 38                   | 1913.7 |
| 97         | 0.091 030 | 960.48                     | 0.540 67 | 406.52          | 2670.8 | 2264.3     | 1.2732             | 7.3904 | 6.1172     | 1.041 14                   | 1849.6 |
| 98         | 0.094 390 | 959.78                     | 0.559 31 | 410.73          | 2672.4 | 2261.7     | 1.2846             | 7.3783 | 6.0937     | 1.041 91                   | 1787.9 |
| 99         | 0.097 852 | 959.06                     | 0.578 47 | 414.95          | 2674.0 | 2259.0     | 1.2959             | 7.3661 | 6.0702     | 1.042 68                   | 1728.7 |
| 100        | 0.101 42  | 958.35                     | 0.598 17 | 419.17          | 2675.6 | 2256.4     | 1.3072             | 7.3541 | 6.0469     | 1.043 46                   | 1671.8 |
| 101        | 0.105 09  | 957.63                     | 0.618 41 | 423.39          | 2677.1 | 2253.8     | 1.3185             | 7.3422 | 6.0237     | 1.044 25                   | 1617.1 |
| 102        | 0.108 87  | 956.90                     | 0.639 20 | 427.61          | 2678.7 | 2251.1     | 1.3297             | 7.3303 | 6.0006     | 1.045 04                   | 1564.4 |
| 103        | 0.112 77  | 956.18                     | 0.660 56 | 431.83          | 2680.3 | 2248.5     | 1.3410             | 7.3185 | 5.9775     | 1.045 83                   | 1513.9 |
| 104        | 0.116 78  | 955.44                     | 0.682 50 | 436.05          | 2681.8 | 2245.8     | 1.3522             | 7.3068 | 5.9546     | 1.046 64                   | 1465.2 |
| 105        | 0.120 90  | 954.70                     | 0.705 03 | 440.27          | 2683.4 | 2243.1     | 1.3633             | 7.2952 | 5.9318     | 1.047 44                   | 1418.4 |
| 106        | 0.125 15  | 953.96                     | 0.728 16 | 444.50          | 2684.9 | 2240.4     | 1.3745             | 7.2836 | 5.9091     | 1.048 26                   | 1373.3 |
| 107        | 0.129 52  | 953.22                     | 0.751 90 | 448.73          | 2686.5 | 2237.7     | 1.3856             | 7.2721 | 5.8865     | 1.049 08                   | 1330.0 |
| 108        | 0.134 01  | 952.46                     | 0.776 27 | 452.95          | 2688.0 | 2235.1     | 1.3967             | 7.2607 | 5.8640     | 1.049 91                   | 1288.2 |
| 109        | 0.138 63  | 951.71                     | 0.801 27 | 457.18          | 2689.5 | 2232.4     | 1.4078             | 7.2493 | 5.8416     | 1.050 74                   | 1248.0 |

**Table 1. Saturation (Temperature) (continued)**

| $t_s$ , °C | $p$ , MPa | Density, kg/m <sup>3</sup> |          | Enthalpy, kJ/kg |        |            | Entropy, kJ/(kg·K) |        |            | Volume, cm <sup>3</sup> /g |        |
|------------|-----------|----------------------------|----------|-----------------|--------|------------|--------------------|--------|------------|----------------------------|--------|
|            |           | $\rho_L$                   | $\rho_V$ | $h_L$           | $h_V$  | $\Delta h$ | $s_L$              | $s_V$  | $\Delta s$ | $v_L$                      | $v_V$  |
| <b>110</b> | 0.143 38  | 950.95                     | 0.826 93 | 461.42          | 2691.1 | 2229.6     | 1.4188             | 7.2381 | 5.8193     | 1.051 58                   | 1209.3 |
| <b>111</b> | 0.148 26  | 950.18                     | 0.853 25 | 465.65          | 2692.6 | 2226.9     | 1.4298             | 7.2269 | 5.7970     | 1.052 43                   | 1172.0 |
| <b>112</b> | 0.153 28  | 949.41                     | 0.880 24 | 469.88          | 2694.1 | 2224.2     | 1.4408             | 7.2157 | 5.7749     | 1.053 28                   | 1136.1 |
| <b>113</b> | 0.158 44  | 948.64                     | 0.907 92 | 474.12          | 2695.6 | 2221.5     | 1.4518             | 7.2047 | 5.7529     | 1.054 14                   | 1101.4 |
| <b>114</b> | 0.163 74  | 947.86                     | 0.936 30 | 478.35          | 2697.1 | 2218.7     | 1.4628             | 7.1937 | 5.7309     | 1.055 00                   | 1068.0 |
| <b>115</b> | 0.169 18  | 947.08                     | 0.965 40 | 482.59          | 2698.6 | 2216.0     | 1.4737             | 7.1828 | 5.7091     | 1.055 88                   | 1035.8 |
| <b>116</b> | 0.174 77  | 946.30                     | 0.995 22 | 486.83          | 2700.1 | 2213.2     | 1.4846             | 7.1719 | 5.6873     | 1.056 75                   | 1004.8 |
| <b>117</b> | 0.180 52  | 945.50                     | 1.0258   | 491.08          | 2701.5 | 2210.5     | 1.4954             | 7.1611 | 5.6657     | 1.057 64                   | 974.86 |
| <b>118</b> | 0.186 41  | 944.71                     | 1.0571   | 495.32          | 2703.0 | 2207.7     | 1.5063             | 7.1504 | 5.6441     | 1.058 53                   | 945.98 |
| <b>119</b> | 0.192 46  | 943.91                     | 1.0892   | 499.56          | 2704.5 | 2204.9     | 1.5171             | 7.1397 | 5.6226     | 1.059 42                   | 918.11 |
| <b>120</b> | 0.198 67  | 943.11                     | 1.1221   | 503.81          | 2705.9 | 2202.1     | 1.5279             | 7.1291 | 5.6012     | 1.060 33                   | 891.21 |
| <b>121</b> | 0.205 05  | 942.30                     | 1.1557   | 508.06          | 2707.4 | 2199.3     | 1.5387             | 7.1186 | 5.5799     | 1.061 23                   | 865.25 |
| <b>122</b> | 0.211 59  | 941.49                     | 1.1902   | 512.31          | 2708.8 | 2196.5     | 1.5494             | 7.1081 | 5.5587     | 1.062 15                   | 840.19 |
| <b>123</b> | 0.218 30  | 940.67                     | 1.2255   | 516.56          | 2710.3 | 2193.7     | 1.5602             | 7.0977 | 5.5375     | 1.063 07                   | 815.98 |
| <b>124</b> | 0.225 18  | 939.85                     | 1.2617   | 520.82          | 2711.7 | 2190.9     | 1.5709             | 7.0873 | 5.5165     | 1.064 00                   | 792.61 |
| <b>125</b> | 0.232 24  | 939.02                     | 1.2987   | 525.07          | 2713.1 | 2188.0     | 1.5816             | 7.0770 | 5.4955     | 1.064 94                   | 770.03 |
| <b>126</b> | 0.239 47  | 938.19                     | 1.3365   | 529.33          | 2714.5 | 2185.2     | 1.5922             | 7.0668 | 5.4746     | 1.065 88                   | 748.21 |
| <b>127</b> | 0.246 89  | 937.36                     | 1.3753   | 533.59          | 2715.9 | 2182.3     | 1.6029             | 7.0566 | 5.4538     | 1.066 83                   | 727.13 |
| <b>128</b> | 0.254 50  | 936.52                     | 1.4149   | 537.85          | 2717.3 | 2179.5     | 1.6135             | 7.0465 | 5.4330     | 1.067 78                   | 706.75 |
| <b>129</b> | 0.262 29  | 935.68                     | 1.4555   | 542.12          | 2718.7 | 2176.6     | 1.6241             | 7.0364 | 5.4124     | 1.068 74                   | 687.05 |
| <b>130</b> | 0.270 28  | 934.83                     | 1.4970   | 546.38          | 2720.1 | 2173.7     | 1.6346             | 7.0264 | 5.3918     | 1.069 71                   | 668.00 |
| <b>131</b> | 0.278 46  | 933.98                     | 1.5394   | 550.65          | 2721.5 | 2170.8     | 1.6452             | 7.0165 | 5.3713     | 1.070 68                   | 649.59 |
| <b>132</b> | 0.286 85  | 933.13                     | 1.5828   | 554.92          | 2722.8 | 2167.9     | 1.6557             | 7.0066 | 5.3509     | 1.071 66                   | 631.77 |
| <b>133</b> | 0.295 43  | 932.27                     | 1.6272   | 559.19          | 2724.2 | 2165.0     | 1.6662             | 6.9967 | 5.3305     | 1.072 65                   | 614.54 |
| <b>134</b> | 0.304 23  | 931.41                     | 1.6726   | 563.47          | 2725.5 | 2162.1     | 1.6767             | 6.9869 | 5.3102     | 1.073 65                   | 597.86 |
| <b>135</b> | 0.313 23  | 930.54                     | 1.7190   | 567.74          | 2726.9 | 2159.1     | 1.6872             | 6.9772 | 5.2900     | 1.074 65                   | 581.73 |
| <b>136</b> | 0.322 45  | 929.67                     | 1.7664   | 572.02          | 2728.2 | 2156.2     | 1.6976             | 6.9675 | 5.2699     | 1.075 66                   | 566.11 |
| <b>137</b> | 0.331 88  | 928.79                     | 1.8149   | 576.30          | 2729.5 | 2153.2     | 1.7081             | 6.9579 | 5.2498     | 1.076 67                   | 550.99 |
| <b>138</b> | 0.341 54  | 927.91                     | 1.8644   | 580.59          | 2730.8 | 2150.3     | 1.7185             | 6.9483 | 5.2298     | 1.077 69                   | 536.36 |
| <b>139</b> | 0.351 43  | 927.02                     | 1.9150   | 584.87          | 2732.1 | 2147.3     | 1.7289             | 6.9388 | 5.2099     | 1.078 72                   | 522.18 |
| <b>140</b> | 0.361 54  | 926.13                     | 1.9667   | 589.16          | 2733.4 | 2144.3     | 1.7392             | 6.9293 | 5.1901     | 1.079 76                   | 508.45 |
| <b>141</b> | 0.371 89  | 925.24                     | 2.0196   | 593.45          | 2734.7 | 2141.3     | 1.7496             | 6.9199 | 5.1703     | 1.080 80                   | 495.16 |
| <b>142</b> | 0.382 47  | 924.34                     | 2.0735   | 597.74          | 2736.0 | 2138.3     | 1.7599             | 6.9105 | 5.1506     | 1.081 85                   | 482.27 |
| <b>143</b> | 0.393 29  | 923.44                     | 2.1286   | 602.04          | 2737.3 | 2135.2     | 1.7702             | 6.9011 | 5.1309     | 1.082 91                   | 469.79 |
| <b>144</b> | 0.404 37  | 922.54                     | 2.1849   | 606.34          | 2738.5 | 2132.2     | 1.7805             | 6.8919 | 5.1114     | 1.083 97                   | 457.69 |
| <b>145</b> | 0.415 68  | 921.62                     | 2.2423   | 610.64          | 2739.8 | 2129.2     | 1.7907             | 6.8826 | 5.0919     | 1.085 04                   | 445.96 |
| <b>146</b> | 0.427 26  | 920.71                     | 2.3010   | 614.94          | 2741.0 | 2126.1     | 1.8010             | 6.8734 | 5.0724     | 1.086 12                   | 434.59 |
| <b>147</b> | 0.439 09  | 919.79                     | 2.3609   | 619.25          | 2742.3 | 2123.0     | 1.8112             | 6.8643 | 5.0530     | 1.087 20                   | 423.57 |
| <b>148</b> | 0.451 18  | 918.87                     | 2.4220   | 623.56          | 2743.5 | 2119.9     | 1.8214             | 6.8552 | 5.0337     | 1.088 30                   | 412.88 |
| <b>149</b> | 0.463 54  | 917.94                     | 2.4844   | 627.87          | 2744.7 | 2116.9     | 1.8316             | 6.8461 | 5.0145     | 1.089 40                   | 402.51 |
| <b>150</b> | 0.476 16  | 917.01                     | 2.5481   | 632.18          | 2745.9 | 2113.7     | 1.8418             | 6.8371 | 4.9953     | 1.090 50                   | 392.45 |
| <b>151</b> | 0.489 07  | 916.07                     | 2.6130   | 636.50          | 2747.1 | 2110.6     | 1.8520             | 6.8281 | 4.9761     | 1.091 62                   | 382.69 |
| <b>152</b> | 0.502 25  | 915.13                     | 2.6793   | 640.81          | 2748.3 | 2107.5     | 1.8621             | 6.8192 | 4.9571     | 1.092 74                   | 373.23 |
| <b>153</b> | 0.515 71  | 914.19                     | 2.7470   | 645.14          | 2749.5 | 2104.3     | 1.8722             | 6.8103 | 4.9380     | 1.093 87                   | 364.04 |
| <b>154</b> | 0.529 46  | 913.24                     | 2.8160   | 649.46          | 2750.7 | 2101.2     | 1.8823             | 6.8014 | 4.9191     | 1.095 01                   | 355.12 |
| <b>155</b> | 0.543 50  | 912.28                     | 2.8863   | 653.79          | 2751.8 | 2098.0     | 1.8924             | 6.7926 | 4.9002     | 1.096 15                   | 346.46 |
| <b>156</b> | 0.557 84  | 911.33                     | 2.9581   | 658.12          | 2753.0 | 2094.8     | 1.9025             | 6.7838 | 4.8814     | 1.097 30                   | 338.05 |
| <b>157</b> | 0.572 47  | 910.36                     | 3.0313   | 662.45          | 2754.1 | 2091.6     | 1.9125             | 6.7751 | 4.8626     | 1.098 46                   | 329.89 |
| <b>158</b> | 0.587 42  | 909.40                     | 3.1059   | 666.79          | 2755.2 | 2088.4     | 1.9225             | 6.7664 | 4.8439     | 1.099 63                   | 321.96 |
| <b>159</b> | 0.602 67  | 908.42                     | 3.1821   | 671.13          | 2756.3 | 2085.2     | 1.9326             | 6.7578 | 4.8252     | 1.100 81                   | 314.26 |
| <b>160</b> | 0.618 23  | 907.45                     | 3.2596   | 675.47          | 2757.4 | 2082.0     | 1.9426             | 6.7491 | 4.8066     | 1.101 99                   | 306.78 |
| <b>161</b> | 0.634 12  | 906.47                     | 3.3387   | 679.82          | 2758.5 | 2078.7     | 1.9525             | 6.7406 | 4.7880     | 1.103 18                   | 299.51 |
| <b>162</b> | 0.650 33  | 905.49                     | 3.4194   | 684.17          | 2759.6 | 2075.5     | 1.9625             | 6.7320 | 4.7695     | 1.104 38                   | 292.45 |
| <b>163</b> | 0.666 86  | 904.50                     | 3.5016   | 688.52          | 2760.7 | 2072.2     | 1.9725             | 6.7235 | 4.7511     | 1.105 59                   | 285.59 |
| <b>164</b> | 0.683 73  | 903.50                     | 3.5853   | 692.88          | 2761.8 | 2068.9     | 1.9824             | 6.7150 | 4.7327     | 1.106 80                   | 278.92 |

**Table 1. Saturation (Temperature) (continued)**

| $t_s$ , °C | $p$ , MPa | Density, kg/m <sup>3</sup> |          | Enthalpy, kJ/kg |        |            | Entropy, kJ/(kg·K) |        |            | Volume, cm <sup>3</sup> /g |        |
|------------|-----------|----------------------------|----------|-----------------|--------|------------|--------------------|--------|------------|----------------------------|--------|
|            |           | $\rho_L$                   | $\rho_V$ | $h_L$           | $h_V$  | $\Delta h$ | $s_L$              | $s_V$  | $\Delta s$ | $v_L$                      | $v_V$  |
| <b>165</b> | 0.700 93  | 902.51                     | 3.6707   | 697.24          | 2762.8 | 2065.6     | 1.9923             | 6.7066 | 4.7143     | 1.108 03                   | 272.43 |
| <b>166</b> | 0.718 48  | 901.50                     | 3.7576   | 701.60          | 2763.9 | 2062.3     | 2.0022             | 6.6982 | 4.6960     | 1.109 26                   | 266.12 |
| <b>167</b> | 0.736 38  | 900.50                     | 3.8462   | 705.96          | 2764.9 | 2058.9     | 2.0121             | 6.6898 | 4.6778     | 1.110 50                   | 259.99 |
| <b>168</b> | 0.754 62  | 899.49                     | 3.9365   | 710.33          | 2765.9 | 2055.6     | 2.0220             | 6.6815 | 4.6596     | 1.111 75                   | 254.03 |
| <b>169</b> | 0.773 22  | 898.47                     | 4.0285   | 714.71          | 2766.9 | 2052.2     | 2.0318             | 6.6732 | 4.6414     | 1.113 00                   | 248.23 |
| <b>170</b> | 0.792 19  | 897.45                     | 4.1222   | 719.08          | 2767.9 | 2048.8     | 2.0417             | 6.6650 | 4.6233     | 1.114 27                   | 242.59 |
| <b>171</b> | 0.811 52  | 896.43                     | 4.2176   | 723.46          | 2768.9 | 2045.4     | 2.0515             | 6.6567 | 4.6053     | 1.115 54                   | 237.10 |
| <b>172</b> | 0.831 22  | 895.40                     | 4.3148   | 727.85          | 2769.9 | 2042.0     | 2.0613             | 6.6485 | 4.5872     | 1.116 82                   | 231.76 |
| <b>173</b> | 0.851 30  | 894.36                     | 4.4138   | 732.23          | 2770.8 | 2038.6     | 2.0711             | 6.6404 | 4.5693     | 1.118 11                   | 226.56 |
| <b>174</b> | 0.871 76  | 893.33                     | 4.5146   | 736.63          | 2771.8 | 2035.1     | 2.0809             | 6.6322 | 4.5514     | 1.119 41                   | 221.50 |
| <b>175</b> | 0.892 60  | 892.28                     | 4.6172   | 741.02          | 2772.7 | 2031.7     | 2.0906             | 6.6241 | 4.5335     | 1.120 72                   | 216.58 |
| <b>176</b> | 0.913 84  | 891.24                     | 4.7217   | 745.42          | 2773.6 | 2028.2     | 2.1004             | 6.6161 | 4.5157     | 1.122 04                   | 211.79 |
| <b>177</b> | 0.935 47  | 890.18                     | 4.8281   | 749.82          | 2774.5 | 2024.7     | 2.1101             | 6.6080 | 4.4979     | 1.123 36                   | 207.12 |
| <b>178</b> | 0.957 51  | 889.13                     | 4.9364   | 754.23          | 2775.4 | 2021.2     | 2.1198             | 6.6000 | 4.4802     | 1.124 70                   | 202.58 |
| <b>179</b> | 0.979 95  | 888.07                     | 5.0466   | 758.64          | 2776.3 | 2017.7     | 2.1296             | 6.5920 | 4.4625     | 1.126 04                   | 198.15 |
| <b>180</b> | 1.0028    | 887.00                     | 5.1588   | 763.05          | 2777.2 | 2014.2     | 2.1392             | 6.5840 | 4.4448     | 1.127 40                   | 193.84 |
| <b>181</b> | 1.0261    | 885.93                     | 5.2730   | 767.47          | 2778.1 | 2010.6     | 2.1489             | 6.5761 | 4.4272     | 1.128 76                   | 189.64 |
| <b>182</b> | 1.0498    | 884.85                     | 5.3893   | 771.90          | 2778.9 | 2007.0     | 2.1586             | 6.5682 | 4.4096     | 1.130 13                   | 185.55 |
| <b>183</b> | 1.0739    | 883.77                     | 5.5076   | 776.32          | 2779.8 | 2003.4     | 2.1683             | 6.5603 | 4.3921     | 1.131 51                   | 181.57 |
| <b>184</b> | 1.0985    | 882.69                     | 5.6279   | 780.75          | 2780.6 | 1999.8     | 2.1779             | 6.5525 | 4.3746     | 1.132 90                   | 177.69 |
| <b>185</b> | 1.1235    | 881.60                     | 5.7504   | 785.19          | 2781.4 | 1996.2     | 2.1875             | 6.5447 | 4.3571     | 1.134 30                   | 173.90 |
| <b>186</b> | 1.1489    | 880.50                     | 5.8750   | 789.63          | 2782.2 | 1992.6     | 2.1971             | 6.5369 | 4.3397     | 1.135 71                   | 170.21 |
| <b>187</b> | 1.1748    | 879.40                     | 6.0018   | 794.07          | 2783.0 | 1988.9     | 2.2067             | 6.5291 | 4.3223     | 1.137 13                   | 166.62 |
| <b>188</b> | 1.2011    | 878.30                     | 6.1308   | 798.52          | 2783.8 | 1985.3     | 2.2163             | 6.5213 | 4.3050     | 1.138 56                   | 163.11 |
| <b>189</b> | 1.2280    | 877.19                     | 6.2620   | 802.97          | 2784.5 | 1981.6     | 2.2259             | 6.5136 | 4.2877     | 1.140 00                   | 159.69 |
| <b>190</b> | 1.2552    | 876.08                     | 6.3954   | 807.43          | 2785.3 | 1977.9     | 2.2355             | 6.5059 | 4.2704     | 1.141 45                   | 156.36 |
| <b>191</b> | 1.2830    | 874.96                     | 6.5312   | 811.89          | 2786.0 | 1974.1     | 2.2450             | 6.4982 | 4.2532     | 1.142 91                   | 153.11 |
| <b>192</b> | 1.3112    | 873.83                     | 6.6692   | 816.36          | 2786.7 | 1970.4     | 2.2546             | 6.4906 | 4.2360     | 1.144 38                   | 149.94 |
| <b>193</b> | 1.3399    | 872.70                     | 6.8096   | 820.83          | 2787.4 | 1966.6     | 2.2641             | 6.4830 | 4.2188     | 1.145 86                   | 146.85 |
| <b>194</b> | 1.3691    | 871.57                     | 6.9524   | 825.31          | 2788.1 | 1962.8     | 2.2736             | 6.4754 | 4.2017     | 1.147 36                   | 143.83 |
| <b>195</b> | 1.3988    | 870.43                     | 7.0976   | 829.79          | 2788.8 | 1959.0     | 2.2832             | 6.4678 | 4.1846     | 1.148 86                   | 140.89 |
| <b>196</b> | 1.4290    | 869.29                     | 7.2453   | 834.28          | 2789.5 | 1955.2     | 2.2926             | 6.4602 | 4.1676     | 1.150 37                   | 138.02 |
| <b>197</b> | 1.4597    | 868.14                     | 7.3954   | 838.77          | 2790.1 | 1951.4     | 2.3021             | 6.4527 | 4.1505     | 1.151 89                   | 135.22 |
| <b>198</b> | 1.4909    | 866.98                     | 7.5480   | 843.26          | 2790.8 | 1947.5     | 2.3116             | 6.4451 | 4.1335     | 1.153 43                   | 132.48 |
| <b>199</b> | 1.5227    | 865.82                     | 7.7032   | 847.76          | 2791.4 | 1943.6     | 2.3211             | 6.4376 | 4.1166     | 1.154 97                   | 129.82 |
| <b>200</b> | 1.5549    | 864.66                     | 7.8610   | 852.27          | 2792.0 | 1939.7     | 2.3305             | 6.4302 | 4.0996     | 1.156 53                   | 127.21 |
| <b>201</b> | 1.5877    | 863.49                     | 8.0214   | 856.78          | 2792.6 | 1935.8     | 2.3400             | 6.4227 | 4.0827     | 1.158 09                   | 124.67 |
| <b>202</b> | 1.6210    | 862.31                     | 8.1844   | 861.30          | 2793.2 | 1931.9     | 2.3494             | 6.4152 | 4.0658     | 1.159 67                   | 122.18 |
| <b>203</b> | 1.6549    | 861.13                     | 8.3501   | 865.82          | 2793.7 | 1927.9     | 2.3588             | 6.4078 | 4.0490     | 1.161 26                   | 119.76 |
| <b>204</b> | 1.6893    | 859.95                     | 8.5186   | 870.35          | 2794.3 | 1923.9     | 2.3683             | 6.4004 | 4.0322     | 1.162 86                   | 117.39 |
| <b>205</b> | 1.7243    | 858.76                     | 8.6898   | 874.88          | 2794.8 | 1919.9     | 2.3777             | 6.3930 | 4.0154     | 1.164 48                   | 115.08 |
| <b>206</b> | 1.7598    | 857.56                     | 8.8638   | 879.42          | 2795.3 | 1915.9     | 2.3871             | 6.3856 | 3.9986     | 1.166 10                   | 112.82 |
| <b>207</b> | 1.7959    | 856.36                     | 9.0406   | 883.96          | 2795.9 | 1911.9     | 2.3964             | 6.3783 | 3.9819     | 1.167 74                   | 110.61 |
| <b>208</b> | 1.8326    | 855.15                     | 9.2203   | 888.51          | 2796.3 | 1907.8     | 2.4058             | 6.3710 | 3.9651     | 1.169 39                   | 108.46 |
| <b>209</b> | 1.8698    | 853.94                     | 9.4029   | 893.07          | 2796.8 | 1903.7     | 2.4152             | 6.3636 | 3.9484     | 1.171 05                   | 106.35 |
| <b>210</b> | 1.9077    | 852.72                     | 9.5885   | 897.63          | 2797.3 | 1899.6     | 2.4245             | 6.3563 | 3.9318     | 1.172 72                   | 104.29 |
| <b>211</b> | 1.9461    | 851.49                     | 9.7770   | 902.20          | 2797.7 | 1895.5     | 2.4339             | 6.3490 | 3.9151     | 1.174 41                   | 102.28 |
| <b>212</b> | 1.9851    | 850.26                     | 9.9686   | 906.77          | 2798.1 | 1891.4     | 2.4432             | 6.3417 | 3.8985     | 1.176 11                   | 100.31 |
| <b>213</b> | 2.0247    | 849.03                     | 10.163   | 911.35          | 2798.5 | 1887.2     | 2.4526             | 6.3345 | 3.8819     | 1.177 82                   | 98.394 |
| <b>214</b> | 2.0650    | 847.79                     | 10.361   | 915.94          | 2798.9 | 1883.0     | 2.4619             | 6.3272 | 3.8653     | 1.179 54                   | 96.516 |
| <b>215</b> | 2.1058    | 846.54                     | 10.562   | 920.53          | 2799.3 | 1878.8     | 2.4712             | 6.3200 | 3.8488     | 1.181 28                   | 94.679 |
| <b>216</b> | 2.1473    | 845.29                     | 10.766   | 925.12          | 2799.7 | 1874.6     | 2.4805             | 6.3128 | 3.8323     | 1.183 03                   | 92.884 |
| <b>217</b> | 2.1894    | 844.03                     | 10.973   | 929.73          | 2800.0 | 1870.3     | 2.4898             | 6.3056 | 3.8158     | 1.184 79                   | 91.129 |
| <b>218</b> | 2.2322    | 842.77                     | 11.184   | 934.34          | 2800.3 | 1866.0     | 2.4991             | 6.2984 | 3.7993     | 1.186 57                   | 89.413 |
| <b>219</b> | 2.2756    | 841.50                     | 11.398   | 938.96          | 2800.7 | 1861.7     | 2.5084             | 6.2912 | 3.7828     | 1.188 36                   | 87.734 |

**Table 1. Saturation (Temperature) (continued)**

| $t_s$ , °C | $p$ , MPa | Density, kg/m <sup>3</sup> |          | Enthalpy, kJ/kg |        |            | Entropy, kJ/(kg·K) |        |            | Volume, cm <sup>3</sup> /g |        |
|------------|-----------|----------------------------|----------|-----------------|--------|------------|--------------------|--------|------------|----------------------------|--------|
|            |           | $\rho_L$                   | $\rho_V$ | $h_L$           | $h_V$  | $\Delta h$ | $s_L$              | $s_V$  | $\Delta s$ | $v_L$                      | $v_V$  |
| 220        | 2.3196    | 840.22                     | 11.615   | 943.58          | 2800.9 | 1857.4     | 2.5177             | 6.2840 | 3.7663     | 1.190 17                   | 86.092 |
| 221        | 2.3643    | 838.94                     | 11.836   | 948.21          | 2801.2 | 1853.0     | 2.5269             | 6.2768 | 3.7499     | 1.191 98                   | 84.486 |
| 222        | 2.4096    | 837.65                     | 12.060   | 952.85          | 2801.5 | 1848.6     | 2.5362             | 6.2697 | 3.7335     | 1.193 82                   | 82.916 |
| 223        | 2.4556    | 836.35                     | 12.288   | 957.49          | 2801.7 | 1844.2     | 2.5455             | 6.2625 | 3.7171     | 1.195 67                   | 81.379 |
| 224        | 2.5023    | 835.05                     | 12.520   | 962.14          | 2801.9 | 1839.8     | 2.5547             | 6.2554 | 3.7007     | 1.197 53                   | 79.875 |
| 225        | 2.5497    | 833.75                     | 12.755   | 966.80          | 2802.1 | 1835.4     | 2.5640             | 6.2483 | 3.6843     | 1.199 40                   | 78.403 |
| 226        | 2.5978    | 832.43                     | 12.993   | 971.46          | 2802.3 | 1830.9     | 2.5732             | 6.2412 | 3.6680     | 1.201 30                   | 76.964 |
| 227        | 2.6466    | 831.12                     | 13.235   | 976.13          | 2802.5 | 1826.4     | 2.5824             | 6.2341 | 3.6516     | 1.203 20                   | 75.554 |
| 228        | 2.6960    | 829.79                     | 13.482   | 980.81          | 2802.7 | 1821.8     | 2.5917             | 6.2270 | 3.6353     | 1.205 12                   | 74.175 |
| 229        | 2.7462    | 828.46                     | 13.732   | 985.50          | 2802.8 | 1817.3     | 2.6009             | 6.2199 | 3.6190     | 1.207 06                   | 72.825 |
| 230        | 2.7971    | 827.12                     | 13.985   | 990.19          | 2802.9 | 1812.7     | 2.6101             | 6.2128 | 3.6027     | 1.209 02                   | 71.503 |
| 231        | 2.8487    | 825.77                     | 14.243   | 994.89          | 2803.0 | 1808.1     | 2.6193             | 6.2057 | 3.5864     | 1.210 98                   | 70.210 |
| 232        | 2.9010    | 824.42                     | 14.505   | 999.60          | 2803.1 | 1803.5     | 2.6285             | 6.1987 | 3.5702     | 1.212 97                   | 68.943 |
| 233        | 2.9541    | 823.06                     | 14.771   | 1004.3          | 2803.1 | 1798.8     | 2.6377             | 6.1916 | 3.5539     | 1.214 97                   | 67.702 |
| 234        | 3.0080    | 821.70                     | 15.040   | 1009.0          | 2803.2 | 1794.1     | 2.6469             | 6.1845 | 3.5376     | 1.216 99                   | 66.488 |
| 235        | 3.0625    | 820.33                     | 15.314   | 1013.8          | 2803.2 | 1789.4     | 2.6561             | 6.1775 | 3.5214     | 1.219 02                   | 65.298 |
| 236        | 3.1179    | 818.95                     | 15.593   | 1018.5          | 2803.2 | 1784.7     | 2.6653             | 6.1704 | 3.5052     | 1.221 08                   | 64.133 |
| 237        | 3.1740    | 817.56                     | 15.875   | 1023.3          | 2803.1 | 1779.9     | 2.6745             | 6.1634 | 3.4890     | 1.223 15                   | 62.991 |
| 238        | 3.2308    | 816.17                     | 16.162   | 1028.0          | 2803.1 | 1775.1     | 2.6836             | 6.1564 | 3.4727     | 1.225 23                   | 61.873 |
| 239        | 3.2885    | 814.77                     | 16.453   | 1032.8          | 2803.0 | 1770.3     | 2.6928             | 6.1493 | 3.4565     | 1.227 34                   | 60.778 |
| 240        | 3.3469    | 813.37                     | 16.749   | 1037.6          | 2803.0 | 1765.4     | 2.7020             | 6.1423 | 3.4403     | 1.229 46                   | 59.705 |
| 241        | 3.4062    | 811.95                     | 17.049   | 1042.3          | 2802.9 | 1760.5     | 2.7111             | 6.1353 | 3.4241     | 1.231 60                   | 58.654 |
| 242        | 3.4662    | 810.53                     | 17.354   | 1047.1          | 2802.7 | 1755.6     | 2.7203             | 6.1282 | 3.4079     | 1.233 76                   | 57.623 |
| 243        | 3.5270    | 809.10                     | 17.664   | 1051.9          | 2802.6 | 1750.7     | 2.7295             | 6.1212 | 3.3918     | 1.235 94                   | 56.613 |
| 244        | 3.5887    | 807.67                     | 17.978   | 1056.7          | 2802.4 | 1745.7     | 2.7386             | 6.1142 | 3.3756     | 1.238 13                   | 55.624 |
| 245        | 3.6512    | 806.22                     | 18.297   | 1061.5          | 2802.2 | 1740.7     | 2.7478             | 6.1072 | 3.3594     | 1.240 35                   | 54.654 |
| 246        | 3.7145    | 804.77                     | 18.621   | 1066.4          | 2802.0 | 1735.6     | 2.7569             | 6.1002 | 3.3432     | 1.242 59                   | 53.703 |
| 247        | 3.7786    | 803.32                     | 18.950   | 1071.2          | 2801.8 | 1730.6     | 2.7661             | 6.0931 | 3.3270     | 1.244 84                   | 52.771 |
| 248        | 3.8436    | 801.85                     | 19.284   | 1076.1          | 2801.5 | 1725.5     | 2.7752             | 6.0861 | 3.3109     | 1.247 12                   | 51.857 |
| 249        | 3.9095    | 800.38                     | 19.623   | 1080.9          | 2801.2 | 1720.3     | 2.7844             | 6.0791 | 3.2947     | 1.249 41                   | 50.961 |
| 250        | 3.9762    | 798.89                     | 19.967   | 1085.8          | 2800.9 | 1715.2     | 2.7935             | 6.0721 | 3.2785     | 1.251 73                   | 50.083 |
| 251        | 4.0438    | 797.40                     | 20.316   | 1090.6          | 2800.6 | 1710.0     | 2.8027             | 6.0650 | 3.2624     | 1.254 07                   | 49.222 |
| 252        | 4.1122    | 795.91                     | 20.671   | 1095.5          | 2800.3 | 1704.7     | 2.8118             | 6.0580 | 3.2462     | 1.256 43                   | 48.377 |
| 253        | 4.1815    | 794.40                     | 21.031   | 1100.4          | 2799.9 | 1699.5     | 2.8210             | 6.0510 | 3.2300     | 1.258 81                   | 47.548 |
| 254        | 4.2518    | 792.89                     | 21.397   | 1105.3          | 2799.5 | 1694.2     | 2.8301             | 6.0439 | 3.2138     | 1.261 21                   | 46.736 |
| 255        | 4.3229    | 791.37                     | 21.768   | 1110.2          | 2799.1 | 1688.8     | 2.8392             | 6.0369 | 3.1977     | 1.263 64                   | 45.938 |
| 256        | 4.3949    | 789.83                     | 22.145   | 1115.2          | 2798.6 | 1683.5     | 2.8484             | 6.0298 | 3.1815     | 1.266 09                   | 45.156 |
| 257        | 4.4679    | 788.30                     | 22.528   | 1120.1          | 2798.2 | 1678.1     | 2.8575             | 6.0228 | 3.1653     | 1.268 56                   | 44.389 |
| 258        | 4.5417    | 786.75                     | 22.917   | 1125.0          | 2797.7 | 1672.6     | 2.8667             | 6.0157 | 3.1491     | 1.271 06                   | 43.637 |
| 259        | 4.6165    | 785.19                     | 23.311   | 1130.0          | 2797.1 | 1667.2     | 2.8758             | 6.0087 | 3.1329     | 1.273 58                   | 42.898 |
| 260        | 4.6923    | 783.63                     | 23.712   | 1135.0          | 2796.6 | 1661.6     | 2.8849             | 6.0016 | 3.1167     | 1.276 12                   | 42.173 |
| 261        | 4.7689    | 782.05                     | 24.118   | 1139.9          | 2796.0 | 1656.1     | 2.8941             | 5.9945 | 3.1004     | 1.278 69                   | 41.462 |
| 262        | 4.8466    | 780.47                     | 24.531   | 1144.9          | 2795.4 | 1650.5     | 2.9032             | 5.9874 | 3.0842     | 1.281 28                   | 40.764 |
| 263        | 4.9252    | 778.88                     | 24.951   | 1149.9          | 2794.8 | 1644.9     | 2.9124             | 5.9804 | 3.0680     | 1.283 90                   | 40.079 |
| 264        | 5.0047    | 777.27                     | 25.377   | 1154.9          | 2794.2 | 1639.2     | 2.9215             | 5.9732 | 3.0517     | 1.286 55                   | 39.406 |
| 265        | 5.0853    | 775.66                     | 25.809   | 1160.0          | 2793.5 | 1633.5     | 2.9307             | 5.9661 | 3.0354     | 1.289 22                   | 38.746 |
| 266        | 5.1668    | 774.04                     | 26.248   | 1165.0          | 2792.8 | 1627.8     | 2.9398             | 5.9590 | 3.0192     | 1.291 92                   | 38.098 |
| 267        | 5.2494    | 772.41                     | 26.694   | 1170.0          | 2792.1 | 1622.0     | 2.9490             | 5.9519 | 3.0029     | 1.294 65                   | 37.462 |
| 268        | 5.3329    | 770.77                     | 27.147   | 1175.1          | 2791.3 | 1616.2     | 2.9582             | 5.9447 | 2.9866     | 1.297 40                   | 36.837 |
| 269        | 5.4174    | 769.12                     | 27.606   | 1180.2          | 2790.5 | 1610.3     | 2.9673             | 5.9376 | 2.9703     | 1.300 19                   | 36.223 |
| 270        | 5.5030    | 767.46                     | 28.073   | 1185.3          | 2789.7 | 1604.4     | 2.9765             | 5.9304 | 2.9539     | 1.303 00                   | 35.621 |
| 271        | 5.5896    | 765.79                     | 28.548   | 1190.4          | 2788.8 | 1598.5     | 2.9857             | 5.9232 | 2.9376     | 1.305 84                   | 35.029 |
| 272        | 5.6772    | 764.11                     | 29.029   | 1195.5          | 2788.0 | 1592.5     | 2.9948             | 5.9160 | 2.9212     | 1.308 71                   | 34.448 |
| 273        | 5.7659    | 762.42                     | 29.518   | 1200.6          | 2787.1 | 1586.5     | 3.0040             | 5.9088 | 2.9048     | 1.311 61                   | 33.877 |
| 274        | 5.8556    | 760.72                     | 30.015   | 1205.7          | 2786.1 | 1580.4     | 3.0132             | 5.9016 | 2.8884     | 1.314 55                   | 33.317 |

**Table 1. Saturation (Temperature) (continued)**

| $t_s$ , °C | $p$ , MPa | Density, kg/m <sup>3</sup> |          | Enthalpy, kJ/kg |        |            | Entropy, kJ/(kg·K) |        |            | Volume, cm <sup>3</sup> /g |        |
|------------|-----------|----------------------------|----------|-----------------|--------|------------|--------------------|--------|------------|----------------------------|--------|
|            |           | $\rho_L$                   | $\rho_V$ | $h_L$           | $h_V$  | $\Delta h$ | $s_L$              | $s_V$  | $\Delta s$ | $v_L$                      | $v_V$  |
| <b>275</b> | 5.9464    | 759.00                     | 30.520   | 1210.9          | 2785.2 | 1574.3     | 3.0224             | 5.8944 | 2.8720     | 1.317 51                   | 32.766 |
| <b>276</b> | 6.0383    | 757.28                     | 31.032   | 1216.1          | 2784.2 | 1568.1     | 3.0316             | 5.8871 | 2.8555     | 1.320 51                   | 32.225 |
| <b>277</b> | 6.1312    | 755.55                     | 31.553   | 1221.3          | 2783.1 | 1561.9     | 3.0408             | 5.8798 | 2.8390     | 1.323 54                   | 31.693 |
| <b>278</b> | 6.2252    | 753.80                     | 32.082   | 1226.4          | 2782.1 | 1555.6     | 3.0500             | 5.8725 | 2.8225     | 1.326 61                   | 31.171 |
| <b>279</b> | 6.3203    | 752.04                     | 32.619   | 1231.7          | 2781.0 | 1549.3     | 3.0592             | 5.8652 | 2.8060     | 1.329 71                   | 30.657 |
| <b>280</b> | 6.4166    | 750.28                     | 33.165   | 1236.9          | 2779.9 | 1543.0     | 3.0685             | 5.8579 | 2.7894     | 1.332 84                   | 30.153 |
| <b>281</b> | 6.5139    | 748.49                     | 33.719   | 1242.1          | 2778.7 | 1536.6     | 3.0777             | 5.8506 | 2.7729     | 1.336 02                   | 29.657 |
| <b>282</b> | 6.6124    | 746.70                     | 34.283   | 1247.4          | 2777.5 | 1530.1     | 3.0869             | 5.8432 | 2.7563     | 1.339 22                   | 29.169 |
| <b>283</b> | 6.7120    | 744.90                     | 34.855   | 1252.7          | 2776.3 | 1523.6     | 3.0962             | 5.8358 | 2.7396     | 1.342 47                   | 28.690 |
| <b>284</b> | 6.8128    | 743.08                     | 35.437   | 1257.9          | 2775.0 | 1517.1     | 3.1054             | 5.8284 | 2.7229     | 1.345 75                   | 28.219 |
| <b>285</b> | 6.9147    | 741.25                     | 36.028   | 1263.2          | 2773.7 | 1510.5     | 3.1147             | 5.8209 | 2.7062     | 1.349 07                   | 27.756 |
| <b>286</b> | 7.0177    | 739.41                     | 36.629   | 1268.6          | 2772.4 | 1503.8     | 3.1240             | 5.8135 | 2.6895     | 1.352 43                   | 27.301 |
| <b>287</b> | 7.1220    | 737.55                     | 37.239   | 1273.9          | 2771.0 | 1497.1     | 3.1333             | 5.8060 | 2.6727     | 1.355 84                   | 26.853 |
| <b>288</b> | 7.2274    | 735.68                     | 37.860   | 1279.3          | 2769.6 | 1490.4     | 3.1426             | 5.7985 | 2.6559     | 1.359 28                   | 26.413 |
| <b>289</b> | 7.3340    | 733.80                     | 38.490   | 1284.6          | 2768.2 | 1483.5     | 3.1519             | 5.7909 | 2.6390     | 1.362 77                   | 25.981 |
| <b>290</b> | 7.4418    | 731.91                     | 39.132   | 1290.0          | 2766.7 | 1476.7     | 3.1612             | 5.7834 | 2.6222     | 1.366 30                   | 25.555 |
| <b>291</b> | 7.5508    | 730.00                     | 39.783   | 1295.4          | 2765.2 | 1469.7     | 3.1705             | 5.7758 | 2.6052     | 1.369 87                   | 25.136 |
| <b>292</b> | 7.6610    | 728.07                     | 40.446   | 1300.9          | 2763.6 | 1462.7     | 3.1799             | 5.7681 | 2.5883     | 1.373 49                   | 24.724 |
| <b>293</b> | 7.7725    | 726.13                     | 41.120   | 1306.3          | 2762.0 | 1455.7     | 3.1892             | 5.7605 | 2.5712     | 1.377 16                   | 24.319 |
| <b>294</b> | 7.8852    | 724.18                     | 41.805   | 1311.8          | 2760.4 | 1448.6     | 3.1986             | 5.7528 | 2.5542     | 1.380 87                   | 23.921 |
| <b>295</b> | 7.9991    | 722.21                     | 42.501   | 1317.3          | 2758.7 | 1441.4     | 3.2080             | 5.7451 | 2.5371     | 1.384 64                   | 23.529 |
| <b>296</b> | 8.1143    | 720.23                     | 43.210   | 1322.8          | 2757.0 | 1434.2     | 3.2174             | 5.7373 | 2.5199     | 1.388 45                   | 23.143 |
| <b>297</b> | 8.2308    | 718.23                     | 43.931   | 1328.3          | 2755.2 | 1426.9     | 3.2268             | 5.7295 | 2.5027     | 1.392 31                   | 22.763 |
| <b>298</b> | 8.3485    | 716.21                     | 44.664   | 1333.8          | 2753.4 | 1419.5     | 3.2362             | 5.7217 | 2.4854     | 1.396 23                   | 22.390 |
| <b>299</b> | 8.4676    | 714.18                     | 45.409   | 1339.4          | 2751.5 | 1412.1     | 3.2457             | 5.7138 | 2.4681     | 1.400 20                   | 22.022 |
| <b>300</b> | 8.5879    | 712.14                     | 46.168   | 1345.0          | 2749.6 | 1404.6     | 3.2552             | 5.7059 | 2.4507     | 1.404 23                   | 21.660 |
| <b>301</b> | 8.7095    | 710.07                     | 46.940   | 1350.6          | 2747.7 | 1397.1     | 3.2647             | 5.6979 | 2.4333     | 1.408 31                   | 21.304 |
| <b>302</b> | 8.8325    | 707.99                     | 47.725   | 1356.3          | 2745.7 | 1389.4     | 3.2742             | 5.6899 | 2.4158     | 1.412 45                   | 20.953 |
| <b>303</b> | 8.9568    | 705.89                     | 48.525   | 1361.9          | 2743.7 | 1381.7     | 3.2837             | 5.6819 | 2.3982     | 1.416 65                   | 20.608 |
| <b>304</b> | 9.0824    | 703.77                     | 49.338   | 1367.6          | 2741.6 | 1374.0     | 3.2932             | 5.6738 | 2.3806     | 1.420 91                   | 20.268 |
| <b>305</b> | 9.2094    | 701.64                     | 50.167   | 1373.3          | 2739.4 | 1366.1     | 3.3028             | 5.6657 | 2.3629     | 1.425 24                   | 19.933 |
| <b>306</b> | 9.3378    | 699.48                     | 51.010   | 1379.0          | 2737.2 | 1358.2     | 3.3124             | 5.6575 | 2.3452     | 1.429 63                   | 19.604 |
| <b>307</b> | 9.4675    | 697.31                     | 51.869   | 1384.8          | 2735.0 | 1350.2     | 3.3220             | 5.6493 | 2.3273     | 1.434 08                   | 19.279 |
| <b>308</b> | 9.5986    | 695.12                     | 52.743   | 1390.6          | 2732.7 | 1342.1     | 3.3316             | 5.6411 | 2.3094     | 1.438 61                   | 18.960 |
| <b>309</b> | 9.7311    | 692.90                     | 53.634   | 1396.4          | 2730.4 | 1334.0     | 3.3413             | 5.6327 | 2.2915     | 1.443 20                   | 18.645 |
| <b>310</b> | 9.8651    | 690.67                     | 54.541   | 1402.2          | 2727.9 | 1325.7     | 3.3510             | 5.6244 | 2.2734     | 1.447 87                   | 18.335 |
| <b>311</b> | 10.000    | 688.42                     | 55.466   | 1408.1          | 2725.5 | 1317.4     | 3.3607             | 5.6159 | 2.2553     | 1.452 61                   | 18.029 |
| <b>312</b> | 10.137    | 686.14                     | 56.408   | 1414.0          | 2723.0 | 1309.0     | 3.3704             | 5.6074 | 2.2370     | 1.457 43                   | 17.728 |
| <b>313</b> | 10.275    | 683.84                     | 57.368   | 1419.9          | 2720.4 | 1300.5     | 3.3802             | 5.5989 | 2.2187     | 1.462 32                   | 17.431 |
| <b>314</b> | 10.415    | 681.52                     | 58.346   | 1425.8          | 2717.8 | 1291.9     | 3.3900             | 5.5903 | 2.2003     | 1.467 30                   | 17.139 |
| <b>315</b> | 10.556    | 679.18                     | 59.344   | 1431.8          | 2715.1 | 1283.2     | 3.3998             | 5.5816 | 2.1818     | 1.472 36                   | 16.851 |
| <b>316</b> | 10.699    | 676.81                     | 60.361   | 1437.8          | 2712.3 | 1274.5     | 3.4097             | 5.5729 | 2.1632     | 1.477 51                   | 16.567 |
| <b>317</b> | 10.843    | 674.42                     | 61.398   | 1443.9          | 2709.5 | 1265.6     | 3.4195             | 5.5641 | 2.1445     | 1.482 75                   | 16.287 |
| <b>318</b> | 10.989    | 672.00                     | 62.457   | 1450.0          | 2706.6 | 1256.6     | 3.4295             | 5.5552 | 2.1257     | 1.488 09                   | 16.011 |
| <b>319</b> | 11.136    | 669.56                     | 63.537   | 1456.1          | 2703.6 | 1247.5     | 3.4394             | 5.5462 | 2.1068     | 1.493 51                   | 15.739 |
| <b>320</b> | 11.284    | 667.09                     | 64.638   | 1462.2          | 2700.6 | 1238.4     | 3.4494             | 5.5372 | 2.0878     | 1.499 04                   | 15.471 |
| <b>321</b> | 11.434    | 664.60                     | 65.763   | 1468.4          | 2697.5 | 1229.1     | 3.4595             | 5.5281 | 2.0686     | 1.504 67                   | 15.206 |
| <b>322</b> | 11.586    | 662.07                     | 66.912   | 1474.6          | 2694.3 | 1219.7     | 3.4695             | 5.5189 | 2.0494     | 1.510 40                   | 14.945 |
| <b>323</b> | 11.740    | 659.52                     | 68.084   | 1480.9          | 2691.1 | 1210.2     | 3.4797             | 5.5096 | 2.0300     | 1.516 25                   | 14.688 |
| <b>324</b> | 11.895    | 656.94                     | 69.282   | 1487.2          | 2687.7 | 1200.6     | 3.4898             | 5.5003 | 2.0105     | 1.522 21                   | 14.434 |
| <b>325</b> | 12.051    | 654.33                     | 70.506   | 1493.5          | 2684.3 | 1190.8     | 3.5000             | 5.4908 | 1.9908     | 1.528 29                   | 14.183 |
| <b>326</b> | 12.209    | 651.68                     | 71.757   | 1499.9          | 2680.8 | 1180.9     | 3.5103             | 5.4813 | 1.9710     | 1.534 49                   | 13.936 |
| <b>327</b> | 12.369    | 649.01                     | 73.036   | 1506.3          | 2677.3 | 1170.9     | 3.5206             | 5.4717 | 1.9511     | 1.540 81                   | 13.692 |
| <b>328</b> | 12.530    | 646.30                     | 74.344   | 1512.8          | 2673.6 | 1160.8     | 3.5309             | 5.4619 | 1.9310     | 1.547 27                   | 13.451 |
| <b>329</b> | 12.693    | 643.55                     | 75.682   | 1519.3          | 2669.9 | 1150.6     | 3.5413             | 5.4521 | 1.9108     | 1.553 87                   | 13.213 |

**Table 1. Saturation (Temperature) (continued)**

| $t_s$ , °C | $p$ , MPa | Density, kg/m <sup>3</sup> |          | Enthalpy, kJ/kg |        |            | Entropy, kJ/(kg·K) |        |            | Volume, cm <sup>3</sup> /g |        |
|------------|-----------|----------------------------|----------|-----------------|--------|------------|--------------------|--------|------------|----------------------------|--------|
|            |           | $\rho_L$                   | $\rho_V$ | $h_L$           | $h_V$  | $\Delta h$ | $s_L$              | $s_V$  | $\Delta s$ | $v_L$                      | $v_V$  |
| <b>330</b> | 12.858    | 640.77                     | 77.050   | 1525.9          | 2666.0 | 1140.2     | 3.5518             | 5.4422 | 1.8903     | 1.560 61                   | 12.979 |
| <b>331</b> | 13.024    | 637.96                     | 78.452   | 1532.5          | 2662.1 | 1129.6     | 3.5623             | 5.4321 | 1.8698     | 1.567 51                   | 12.747 |
| <b>332</b> | 13.193    | 635.10                     | 79.887   | 1539.1          | 2658.1 | 1118.9     | 3.5729             | 5.4219 | 1.8490     | 1.574 56                   | 12.518 |
| <b>333</b> | 13.362    | 632.20                     | 81.356   | 1545.9          | 2653.9 | 1108.1     | 3.5835             | 5.4116 | 1.8281     | 1.581 77                   | 12.292 |
| <b>334</b> | 13.534    | 629.27                     | 82.863   | 1552.6          | 2649.7 | 1097.1     | 3.5943             | 5.4012 | 1.8069     | 1.589 15                   | 12.068 |
| <b>335</b> | 13.707    | 626.29                     | 84.407   | 1559.5          | 2645.4 | 1085.9     | 3.6050             | 5.3906 | 1.7856     | 1.596 71                   | 11.847 |
| <b>336</b> | 13.882    | 623.26                     | 85.991   | 1566.3          | 2640.9 | 1074.6     | 3.6159             | 5.3799 | 1.7640     | 1.604 47                   | 11.629 |
| <b>337</b> | 14.059    | 620.19                     | 87.616   | 1573.3          | 2636.3 | 1063.0     | 3.6268             | 5.3691 | 1.7422     | 1.612 41                   | 11.413 |
| <b>338</b> | 14.238    | 617.07                     | 89.284   | 1580.3          | 2631.6 | 1051.3     | 3.6378             | 5.3581 | 1.7202     | 1.620 57                   | 11.200 |
| <b>339</b> | 14.418    | 613.89                     | 90.998   | 1587.4          | 2626.8 | 1039.4     | 3.6489             | 5.3469 | 1.6980     | 1.628 95                   | 10.989 |
| <b>340</b> | 14.601    | 610.67                     | 92.759   | 1594.5          | 2621.8 | 1027.3     | 3.6601             | 5.3356 | 1.6755     | 1.637 55                   | 10.781 |
| <b>341</b> | 14.785    | 607.38                     | 94.570   | 1601.8          | 2616.8 | 1015.0     | 3.6714             | 5.3241 | 1.6527     | 1.646 40                   | 10.574 |
| <b>342</b> | 14.971    | 604.04                     | 96.433   | 1609.1          | 2611.5 | 1002.5     | 3.6828             | 5.3124 | 1.6296     | 1.655 51                   | 10.370 |
| <b>343</b> | 15.159    | 600.64                     | 98.351   | 1616.4          | 2606.1 | 989.7      | 3.6943             | 5.3005 | 1.6063     | 1.664 90                   | 10.168 |
| <b>344</b> | 15.349    | 597.17                     | 100.33   | 1623.9          | 2600.6 | 976.7      | 3.7059             | 5.2885 | 1.5826     | 1.674 57                   | 9.9674 |
| <b>345</b> | 15.541    | 593.63                     | 102.36   | 1631.5          | 2594.9 | 963.4      | 3.7176             | 5.2762 | 1.5586     | 1.684 56                   | 9.7690 |
| <b>346</b> | 15.734    | 590.01                     | 104.47   | 1639.1          | 2589.0 | 949.9      | 3.7295             | 5.2636 | 1.5342     | 1.694 88                   | 9.5724 |
| <b>347</b> | 15.930    | 586.32                     | 106.64   | 1646.9          | 2583.0 | 936.1      | 3.7414             | 5.2509 | 1.5094     | 1.705 56                   | 9.3776 |
| <b>348</b> | 16.128    | 582.54                     | 108.88   | 1654.8          | 2576.7 | 922.0      | 3.7536             | 5.2379 | 1.4843     | 1.716 62                   | 9.1844 |
| <b>349</b> | 16.328    | 578.67                     | 111.20   | 1662.8          | 2570.3 | 907.5      | 3.7659             | 5.2246 | 1.4587     | 1.728 10                   | 8.9927 |
| <b>350</b> | 16.529    | 574.71                     | 113.61   | 1670.9          | 2563.6 | 892.7      | 3.7784             | 5.2110 | 1.4326     | 1.740 02                   | 8.8024 |
| <b>351</b> | 16.733    | 570.64                     | 116.10   | 1679.1          | 2556.8 | 877.6      | 3.7910             | 5.1971 | 1.4061     | 1.752 43                   | 8.6134 |
| <b>352</b> | 16.939    | 566.46                     | 118.68   | 1687.5          | 2549.6 | 862.1      | 3.8039             | 5.1829 | 1.3790     | 1.765 36                   | 8.4257 |
| <b>353</b> | 17.147    | 562.15                     | 121.37   | 1696.1          | 2542.3 | 846.2      | 3.8170             | 5.1683 | 1.3514     | 1.778 88                   | 8.2390 |
| <b>354</b> | 17.358    | 557.72                     | 124.17   | 1704.8          | 2534.6 | 829.8      | 3.8303             | 5.1534 | 1.3231     | 1.793 02                   | 8.0533 |
| <b>355</b> | 17.570    | 553.14                     | 127.09   | 1713.7          | 2526.6 | 812.9      | 3.8439             | 5.1380 | 1.2942     | 1.807 86                   | 7.8684 |
| <b>356</b> | 17.785    | 548.41                     | 130.14   | 1722.8          | 2518.4 | 795.5      | 3.8577             | 5.1222 | 1.2645     | 1.823 47                   | 7.6841 |
| <b>357</b> | 18.002    | 543.50                     | 133.33   | 1732.2          | 2509.8 | 777.6      | 3.8719             | 5.1059 | 1.2340     | 1.839 93                   | 7.5003 |
| <b>358</b> | 18.221    | 538.41                     | 136.67   | 1741.7          | 2500.8 | 759.0      | 3.8864             | 5.0891 | 1.2026     | 1.857 33                   | 7.3168 |
| <b>359</b> | 18.442    | 533.11                     | 140.19   | 1751.5          | 2491.4 | 739.8      | 3.9014             | 5.0717 | 1.1703     | 1.875 78                   | 7.1332 |
| <b>360</b> | 18.666    | 527.59                     | 143.90   | 1761.7          | 2481.5 | 719.8      | 3.9167             | 5.0536 | 1.1369     | 1.895 41                   | 6.9493 |
| <b>361</b> | 18.892    | 521.82                     | 147.82   | 1772.1          | 2471.1 | 699.0      | 3.9325             | 5.0347 | 1.1023     | 1.916 35                   | 6.7649 |
| <b>362</b> | 19.121    | 515.79                     | 151.99   | 1782.9          | 2460.2 | 677.3      | 3.9488             | 5.0151 | 1.0663     | 1.938 79                   | 6.5795 |
| <b>363</b> | 19.352    | 509.45                     | 156.43   | 1794.1          | 2448.6 | 654.5      | 3.9656             | 4.9945 | 1.0288     | 1.962 90                   | 6.3925 |
| <b>364</b> | 19.585    | 502.78                     | 161.20   | 1805.7          | 2436.2 | 630.5      | 3.9831             | 4.9727 | 0.9896     | 1.988 94                   | 6.2035 |
| <b>365</b> | 19.821    | 495.74                     | 166.35   | 1817.8          | 2422.9 | 605.2      | 4.0014             | 4.9497 | 0.9483     | 2.0172                     | 6.0115 |
| <b>366</b> | 20.060    | 488.27                     | 171.95   | 1830.5          | 2408.7 | 578.2      | 4.0205             | 4.9251 | 0.9046     | 2.0480                     | 5.8157 |
| <b>367</b> | 20.302    | 480.29                     | 178.11   | 1843.8          | 2393.1 | 549.2      | 4.0406             | 4.8986 | 0.8580     | 2.0821                     | 5.6145 |
| <b>368</b> | 20.546    | 471.67                     | 184.98   | 1858.1          | 2375.9 | 517.8      | 4.0621             | 4.8697 | 0.8076     | 2.1201                     | 5.4061 |
| <b>369</b> | 20.793    | 462.18                     | 192.77   | 1873.5          | 2356.6 | 483.1      | 4.0853             | 4.8376 | 0.7523     | 2.1636                     | 5.1875 |
| <b>370</b> | 21.044    | 451.43                     | 201.84   | 1890.7          | 2334.5 | 443.8      | 4.1112             | 4.8012 | 0.6901     | 2.2152                     | 4.9544 |
| <b>371</b> | 21.297    | 438.64                     | 212.79   | 1910.6          | 2308.3 | 397.7      | 4.1412             | 4.7586 | 0.6175     | 2.2798                     | 4.6995 |
| <b>372</b> | 21.554    | 422.26                     | 226.84   | 1935.3          | 2275.5 | 340.3      | 4.1785             | 4.7059 | 0.5274     | 2.3682                     | 4.4084 |
| <b>373</b> | 21.814    | 398.68                     | 247.22   | 1969.7          | 2229.8 | 260.1      | 4.2308             | 4.6334 | 0.4026     | 2.5083                     | 4.0450 |
| $t_c$      | 22.064    | 322.00                     | 322.00   | 2084.3          | 2084.3 | 0.         | 4.4070             | 4.4070 | 0.         | 3.1056                     | 3.1056 |

( $t_c = 373.946$  °C)