

WATER PROPERTIES / VAND pure H<sub>2</sub>O

| Temperature | Density                | Specific Heat               | Heat Conductivity | Dynamic Viscosity           | Prandtl's Number |
|-------------|------------------------|-----------------------------|-------------------|-----------------------------|------------------|
| t<br>°C     | ρ<br>kg/m <sup>3</sup> | C <sub>p</sub><br>kJ/(kg·K) | λ<br>W/(m·K)      | μ<br>x10 <sup>-6</sup> Pa·s | Pr<br>-          |
| -5          | 1.035                  | 3,850                       | 0,444             | 10.000                      | 40,0             |
| 0           | 999,8                  | 4,218                       | 0,569             | 1.750                       | 13,0             |
| 1           | 999,8                  | 4,215                       | 0,571             | 1.705                       | 12,6             |
| 2           | 999,8                  | 4,213                       | 0,573             | 1.660                       | 12,3             |
| 3           | 999,8                  | 4,210                       | 0,574             | 1.615                       | 11,9             |
| 4           | 999,8                  | 4,208                       | 0,576             | 1.570                       | 11,5             |
| 5           | 999,8                  | 4,205                       | 0,578             | 1.525                       | 11,1             |
| 6           | 999,7                  | 4,202                       | 0,580             | 1.480                       | 10,8             |
| 7           | 999,7                  | 4,200                       | 0,582             | 1.435                       | 10,4             |
| 8           | 999,7                  | 4,197                       | 0,583             | 1.390                       | 10,0             |
| 9           | 999,7                  | 4,195                       | 0,585             | 1.345                       | 9,65             |
| 10          | 999,7                  | 4,192                       | 0,587             | 1.300                       | 9,28             |
| 11          | 999,6                  | 4,191                       | 0,589             | 1.270                       | 9,05             |
| 12          | 999,4                  | 4,190                       | 0,590             | 1.240                       | 8,81             |
| 13          | 999,3                  | 4,189                       | 0,592             | 1.210                       | 8,58             |
| 14          | 999,1                  | 4,188                       | 0,594             | 1.180                       | 8,34             |
| 16          | 998,8                  | 4,186                       | 0,597             | 1.120                       | 7,88             |
| 18          | 998,5                  | 4,184                       | 0,601             | 1.060                       | 7,41             |
| 20          | 998,2                  | 4,182                       | 0,604             | 1.000                       | 6,94             |
| 22          | 997,7                  | 4,181                       | 0,607             | 959,6                       | 6,63             |
| 24          | 997,2                  | 4,180                       | 0,610             | 919,2                       | 6,32             |
| 25          | 997,0                  | 4,180                       | 0,611             | 899,0                       | 6,17             |
| 30          | 995,7                  | 4,178                       | 0,618             | 798,0                       | 5,39             |
| 35          | 994,3                  | 4,178                       | 0,625             | 725,5                       | 4,85             |
| 40          | 992,2                  | 4,178                       | 0,632             | 653,0                       | 4,30             |
| 45          | 990,1                  | 4,180                       | 0,638             | 599,5                       | 3,93             |
| 50          | 988,0                  | 4,181                       | 0,643             | 546,0                       | 3,56             |
| 55          | 985,6                  | 4,183                       | 0,649             | 506,0                       | 3,26             |
| 60          | 983,2                  | 4,184                       | 0,654             | 466,0                       | 2,96             |
| 65          | 980,5                  | 4,187                       | 0,658             | 435,0                       | 2,75             |
| 70          | 977,8                  | 4,190                       | 0,662             | 404,0                       | 2,53             |
| 75          | 974,8                  | 4,193                       | 0,666             | 379,5                       | 2,37             |
| 80          | 971,8                  | 4,196                       | 0,669             | 355,0                       | 2,20             |
| 85          | 968,6                  | 4,201                       | 0,673             | 335,0                       | 2,07             |
| 90          | 965,3                  | 4,205                       | 0,676             | 315,0                       | 1,94             |
| 100         | 958,1                  | 4,216                       | 0,681             | 279,0                       | 1,73             |
| 110         | 951,1                  | 4,230                       | 0,684             | 252,8                       | 1,56             |
| 120         | 942,8                  | 4,244                       | 0,687             | 231,0                       | 1,43             |
| 130         | 934,6                  | 4,263                       | 0,688             | 211,9                       | 1,31             |
| 140         | 925,7                  | 4,285                       | 0,688             | 195,5                       | 1,22             |
| 150         | 916,3                  | 4,311                       | 0,687             | 181,4                       | 1,14             |
| 200         | 864,7                  | 4,495                       | 0,665             | 133,9                       | 0,91             |
| 300         | 712,2                  | 5,773                       | 0,541             | 90,10                       | 0,96             |
| 374,15      | 315,5                  | 1.000                       | 0,238             | 45,00                       | 1.000            |



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