

VAPOUR CONTENT AT SATURATION/VAPOUR CONTENT

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|        |        |       |      |
|--------|--------|-------|------|
| RH (%) | T (°C) | $v_s$ | $v$  |
| 74     | 0      | 4.86  | 3.59 |

Only yellow cells may be c

g/m<sup>3</sup>

$$v_s(T) = e^{a - \frac{b}{T_{abs}}}$$

Equation:  
( $T_{abs}$  = absolute temperature)

|    |         |         |
|----|---------|---------|
| a= | T < 0°C | T > 0°C |
|    | 23.077  | 20.11   |
| b= | 5872    | 5061    |

Comparison:

| T (°C) | Equation | $v_s$ FHB |
|--------|----------|-----------|
| -10    | 2.15     | 2.14      |
| -9     | 2.34     | 2.33      |
| -8     | 2.54     | 2.53      |
| -7     | 2.76     | 2.75      |
| -6     | 3.00     | 2.99      |
| -5     | 3.25     | 3.25      |
| -4     | 3.53     | 3.52      |
| -3     | 3.83     | 3.82      |
| -2     | 4.14     | 4.14      |
| -1     | 4.49     | 4.49      |
| 0      | 4.86     | 4.86      |
| 1      | 5.21     | 5.19      |
| 2      | 5.57     | 5.56      |
| 3      | 5.95     | 5.95      |
| 4      | 6.36     | 6.36      |
| 5      | 6.79     | 6.8       |
| 6      | 7.25     | 7.27      |
| 7      | 7.73     | 7.76      |
| 8      | 8.24     | 8.28      |
| 9      | 8.79     | 8.83      |
| 10     | 9.36     | 9.41      |
| 11     | 9.97     | 10.02     |
| 12     | 10.61    | 10.67     |
| 13     | 11.29    | 11.35     |
| 14     | 12.01    | 12.07     |
| 15     | 12.77    | 12.83     |
| 16     | 13.57    | 13.63     |
| 17     | 14.41    | 14.48     |
| 18     | 15.30    | 15.36     |
| 19     | 16.24    | 16.3      |
| 20     | 17.23    | 17.28     |
| 21     | 18.27    | 18.32     |
| 22     | 19.36    | 19.41     |
| 23     | 20.52    | 20.55     |
| 24     | 21.73    | 21.75     |
| 25     | 23.01    | 23.01     |
| 26     | 24.35    | 24.33     |
| 27     | 25.76    | 25.72     |
| 28     | 27.25    | 27.18     |
| 29     | 28.81    | 28.71     |
| 30     | 30.44    | 30.31     |

