

Table 8.

| $PV = A + B\rho + C\rho^2 + D\rho^3 + E\rho^4$ for methane up to 1000 atm |        |                   |                   |                   |                    |                 |
|---|--------|-------------------|-------------------|-------------------|--------------------|-----------------|
| Temp. °C  | A      | B·10 <sup>3</sup> | C·10 <sup>6</sup> | D·10 <sup>9</sup> | E·10 <sup>12</sup> | Range of $\rho$ |
| 0   | 1.0024 | -2.7462           | 11.111            | -29.457           | 52.405             | up to 500 Am.   |
| 25  | 1.0942 | -2.3337           | 9.515             | -23.849           | 48.724             | up to 480 Am.   |
| 50  | 1.1859 | -1.9532           | 7.968             | -17.090           | 42.667             | up to 460 Am.   |
| 75  | 1.2777 | -1.6599           | 7.628             | -15.009           | 41.557             | up to 440 Am.   |
| 100   | 1.3694 | -1.3532           | 6.456             | 7.729             | 32.446             | up to 420 Am.   |

$PV = 1.0000$  at 0°C, 1 atm.  $\rho =$  Amagat density.

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