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Equation of State of  $^{20}\text{Ne}$  Gas in the Temperature-Range 27-36 K

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## Highlights

- The quantum second virial coefficient for  $^{20}\text{Ne}$  is calculated from first principles.
- The compressibility and the pressure-volume-temperature behavior are investigated.
- Other thermodynamic properties are computed for a number density of  $1 \times 10^{27}$  atoms/m<sup>3</sup>.

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