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Effect of pairwise additivity on finite-temperature behavior of classical ideal gas

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*Highlights (for review)

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- Studying the effect of pairwise additivity on finite-temperature behavior of classical ideal gas.
- The most non-ideality for the Lennard-Jones system due to both the attractive and repulsive terms.
- Either attractive or repulsive pair potentials result in ideal-gas behavior as temperature rises.

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