

Molecular Dynamics Simulation Report

Optimized Lattice Parameter: 5.2756×10^{-10} m

Melting Point: 180 K

Boiling Point: 195 K

Total Runtime: 633.73 seconds

Best Verlet Algorithm: Standard Verlet (Adaptive)

Best Time Step: 1.00×10^{-15} s

Reason: Lowest average potential energy (-1.29×10^{-20} J) and minimal energy drift (2.00×10^{-22} J) during preliminary simulation.

