

Molecular Dynamics Simulation Report

Optimized Lattice Parameter: 5.2776×10^{-10} m

Melting Point: 170 K

Boiling Point: 190 K

Total Runtime: 829.11 seconds

Best Verlet Algorithm: Leapfrog Verlet (Adaptive)

Best Time Step: 1.00×10^{-16} s

Reason: Lowest average potential energy (-1.27×10^{-20} J) and minimal energy drift (7.62×10^{-23} J) during preliminary simulation.

