

Molecular Dynamics Simulation Report

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

Melting Point: 75 K

Boiling Point: 190 K

Total Runtime: 2409.45 seconds

Best Verlet Algorithm: Velocity-Verlet (Adaptive)

Best Time Step: 5.00×10^{-15} s

Reason: Lowest average potential energy (-1.21×10^{-20} J) and minimal energy drift (2.51×10^{-23} J) during preliminary simulation.

