

Molecular Dynamics Simulation Report

Optimized Lattice Parameter: 5.2727×10^{-10} m

Melting Point: 55 K

Boiling Point: 165 K

Total Runtime: 564.38 seconds

Best Verlet Algorithm: Standard Verlet (Adaptive)

Best Time Step: 1.00×10^{-16} s

Reason: Lowest average potential energy (-1.41×10^{-18} J) and minimal energy drift (3.79×10^{-23} J) during preliminary simulation.

