Molecular Dynamics Simulation Report

Optimized Lattice Parameter: 5.2742e-10 m

Melting Point: 45 K Boiling Point: 155 K

Total Runtime: 3780.22 seconds

Best Verlet Algorithm: Velocity-Verlet (Adaptive)

Best Time Step: 1.00e-15 s

Reason: Lowest average potential energy (-1.41e-18 J) and minimal energy drift

(2.58e-24 J) during preliminary simulation.

