Molecular Dynamics Simulation Report

Optimized Lattice Parameter: 5.2823e-10 m

Melting Point: 50 K Boiling Point: 100 K

Total Runtime: 1702.53 seconds

Best Verlet Algorithm: Velocity-Verlet (Adaptive)

Best Time Step: 1.00e-15 s

Reason: Lowest average potential energy (-1.21e-20 J) and minimal energy drift

(4.79e-23 J) during preliminary simulation.

