Molecular Dynamics Simulation Report

Optimized Lattice Parameter: 5.2823e-10 m

Melting Point: 60 K

Boiling Point: 80 K

Total Runtime: 2035.22 seconds

Best Verlet Algorithm: Standard Verlet (Adaptive)

Best Time Step: 1.00e-16 s

Reason: Lowest average potential energy (-1.29e-20 J) and minimal energy drift (2.11e-23 J) during preliminary simulation.