

Article

The Accuracy of Semi-Empirical Quantum Chemistry Methods on Soot Formation Simulation †

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Abstract: Soot molecules are hazardous compounds threatening human health. Computational chemistry provides efficient tools for studying them. However, accurate quantum chemistry calculation is costly for the simulation of large-size soot molecules and high-throughput calculations. Semiempirical (SE) quantum chemistry methods are optional choices for balancing computational costs.
In this work, we validated the performances of several widely used SE methods in the description of
soot formation. Our benchmark study focuses on, but is not limited to, the validation of the performances of SE methods on reactive and non-reactive MD trajectory calculations. We also examined
the accuracy of SE methods of predicting soot precursor structures and energy profiles along intrinsic
reaction coordinate(s) (IRC). Finally, we discussed the spin density predicted by SE methods. The SE
methods validated include AM1, PM6, PM7, GFN2-xTB, DFTB2, with or without spin-polarization,
and DFTB3. We found that the shape of MD trajectory profiles, the relative energy, and molecular
structures predicted by SE methods are qualitatively correct. We suggest that SE methods can be used
in massive reaction soot formation event sampling and primary reaction mechanism generation. Yet,
they cannot be used to provide quantitatively accurate data, such as thermodynamic and reaction
kinetics ones.

Keywords: soot; soot precursors; PAHs; molecular dynamics simulation; semi-empirical; DFT tight-binding; benchmark

1. Introduction

Soot, a mass of carbonaceous nanoparticles, is a byproduct from incomplete combustion. The deposition of soot particles in a combustion chamber affects the combustion efficiency and even reduces the life of engines. Atmospheric soot also plays an important role in the global climate system [1]. Moreover, epidemiological evidence has already shown that black carbon, mature soot particles emitted into the atmosphere, is associated with health damage [2,3]. Soot precursor formation processes depend on fuel composition and flame conditions. Some parts of the complicated soot inception mechanisms are still unclear and waiting for more research.

Soot particles are generated from gas-phase species, which are called soot precursors. Although numerous experimental and simulation research studies support the theory that polycyclic aromatic hydrocarbon (PAH) species are major procursors [4,5], the genesis and growth mechanisms of aromatic compounds are still under debate. Various pathways are proposed for the formation of soot precursor, some research studies deem between as the first aromatic ring and soot-growing seed [5,6]. Another class of theoretical works suggested that stable cyclopentadienyl radicals formed by C₃H₃ and C₂H₂ are crucial initial structures to form other aromatic rings [7]. Johansson et al. [8] proposed a soot inception routine, which started from a cyclopentadienyl radical without the direct participation of benzene. Jin et al. [9] also suggested a propargyl radical (CH₂OCH) and



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