

Supporting Information for

Bond length alternation and energy band gap of polyyne

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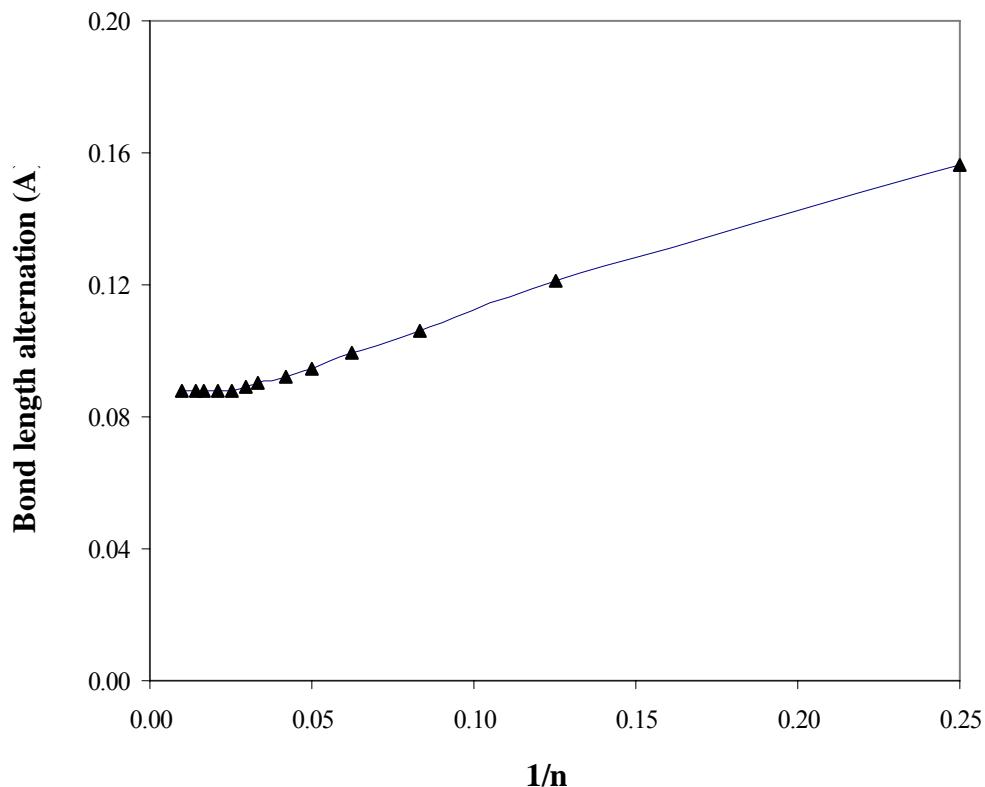


Figure 1S. Bond length alternation (BLA, in Å) as a function of $1/n$ from oligomer calculations on H-endcapped carbon chains. n is number of carbon atoms along the chain. BLA is the difference between the central most single and triple bond, taken from fully optimized B3LYP/6-31G* hybrid DFT calculations.

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