Supplementary material for:
Tensor factorisations of local second-order Møller-Plesset theory

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Ithaca, New York 14853, USA
TABLE I: Cartesian coordinates (Angstrom) of \([\text{gly}]_n\) peptides with \(n = 1, 2, 4, 6, 8, 10, 12, 14\).

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**TABLE III:** Cartesian coordinates (Angstrom) of propadienone CH$_2$CCO.

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TABLE IV: Calculated canonical MP2, dOSVMP2-P and OSVMP2 isomerization energies (kcal/mol) for other test reactions. The dOSVMP2-P and OSVMP2 results are given as the first and second row for each reaction. The errors given in the parentheses are the deviations relative to canonical MP2 reaction energies. The computational details are found in Table III of the text.

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| Mean Absolute Deviations (kcal/mol) | 2.54 | 1.10 | 0.24 | 0.06 |
|                                   | 0.88 | 0.16 | 0.00 | 0.00 |
| Mean Deviations (kcal/mol)        | 0.14 | 0.16 | -0.05 | 0.00 |
|                                   | 0.01 | 0.04 | 0.00 | 0.00 |
| Maximum Deviations (kcal/mol)     | 11.11 | 2.30 | 0.49 | 0.14 |
|                                   | 2.23 | 0.42 | 0.02 | 0.00 |