Report - 5

$$E_{ab} = \sum_{i}^{ ext{on }a} \sum_{j}^{ ext{on }b} rac{k_C q_i q_j}{r_{ij}^2} + rac{A}{r_{ ext{OO}}^{12}} - rac{B}{r_{ ext{OO}}^6},$$

$$k_c = 332.1 \text{ Å} \cdot kcal/(mol \cdot e^2)$$

$$A = 582.0 * 10^3 kcal \text{Å}^{12}/mol$$

$$B = 595.0 kcal \text{Å}^6/mol$$

Original configuration energy: -5071.964855601935

The energy obtained after applying the formula along with the periodic boundary condition