

INFLUENCE OF RADIATION ON THE LOCAL STRUCTURE IN A NaCl AQUEOUS SOLUTION

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S u m m a r y

Using the method of molecular dynamics, the influence of radiation within the energy interval $E_r = 0 \div 12$ MeV on the local structure in a 0.14-mol.% NaCl aqueous solution at the temperature $T = 300$ K is studied. No substantial changes in the local structure of the solution were found at energies E_r higher or lower than 9 MeV. At $E_r = 9$ MeV, the local structure changes drastically. This radiation effect can be considered as a maximum one and taking place due to the increase of the probability for cations and anions of the solute to interact with one another and with water molecules.