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Effect of temperature on the antioxidant activity of water

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Abstract

The study of the antioxidant activity of water structures helps explain many anomalous properties of water - the major heat medium for warm blooded animals. Dependence of the total antioxidant activity (TAOA) and the specific heat capacity of water on temperature is of polynomial character with the minimum in the temperature range from 20 to 40°C. In the temperature range of 0-90 °C in 26 samples studied with distilled water revealed two main groups of clusters with values TAOA 3.9186 and 3.1929 mg of routine in 1 liter of water. Anomalous values of TAOA are revealed at 20 °C (2.6124) and at 40 °C (3.3381). The group of clusters of TAOA 3.3381 at the temperature 25 °C «tvists» with the group of clusters with the value of TAOA 3.9186, and at 36 °C with the group of clusters (3.1929 mg of routine in 1 liter of water).