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Title: Understanding and Exploring the Potentials of Household Water Treatment Methods for Volatile Disinfection By-Products Control: Kinetics, Mechanisms, and Influencing Factors

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Highlights

Halomethanes (HMs) control by household water treatment methods was assessed;

HMs removal in boiler was driven by synergistic turbulence and bubbling effects;

Water handling habits like volume, cooling, and capping played important roles;

HWT treatability was highly relied upon halogenation type and degree of HMs;

Microwave irradiation, pouring, stirring, and shaking were effective in removing HMs.

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