

Abstract Submitted  
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**Small methanol cluster growth/decay rate constant ratios and application to nucleation data analysis** BARBARA HALE, GERALD WILEMSKI, Missouri University of Science & Technology — The Bennett Monte Carlo technique is used to calculate growth/decay rate constant ratios for small methanol clusters using the model potential of van Leeuwen and Smit [J. Chem. Phys. **99**, 1831 (1995)] at temperatures of 220K, 240K and 260K. The resulting data are used to examine temperature scaling properties of the rate constant ratios and to illustrate how heat release from subcritical cluster formation affects the results of adiabatic nucleation rate measurements.

Barbara N. Hale  
Missouri University of Science & Technology

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