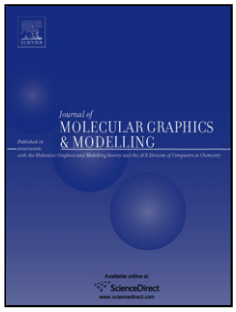

Title: Mechanism and kinetic study of 3-fluoropropene with hydroxyl radical reaction

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PII: S1093-3263(13)00158-7
DOI: http://dx.doi.org/doi:10.1016/j.jmgm.2013.09.003
Reference: JMG 6334

To appear in: *Journal of Molecular Graphics and Modelling*

Received date: 23-6-2013
Revised date: 4-9-2013
Accepted date: 4-9-2013

Please cite this article as: Y. Zhang, K. Chao, X. Pan, J. Zhang, Z. Su, R. Wang, Mechanism and kinetic study of 3-fluoropropene with hydroxyl radical reaction, *Journal of Molecular Graphics and Modelling* (2013), http://dx.doi.org/10.1016/j.jmgm.2013.09.003

Graphic Abstract

Highlights:

Potential energy surface for the title reaction has been investigated theoretically. Multichannel RRKM theory is employed to calculate the rate constants. The predicted rate constants are in agreement with the available experimental values.