

Review of: "A Description of the Melting of Ice With the Modified Clapeyron–Clausius Equation"

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Potential competing interests: No potential competing interests to declare.

Paper: A description of the melting of ice with the modified Clapeyron-Clausius equation, from I. Stepanov, is interesting for the academic teacher and student population. The paper is well organized and contains Introduction, Theoretical background, and Conclusion. The author gives the modified Clapeyron-Clausius Eq., which describes phase transitions in substances with negative thermal expansion.

Please define partial molar expansibilities and apparent molar expansibility, and the same for compressibility. (e.g., see the book from F. J. Millero, *Physical Chemistry of Natural Waters*, Wiley, 2001.)

Please add a new reference in this paper: Silbey, Alberty, Bawendi, *Physical Chemistry*, 4th Edition, John Wiley and Sons, 2005, pp. 181-185.

In this work, it is shown that the modified CC-Eq., which describes the melting of ice, is successful if the compressibility of water and ice is considered.

Conclusion: This MS can be accepted for publication after minor revision.