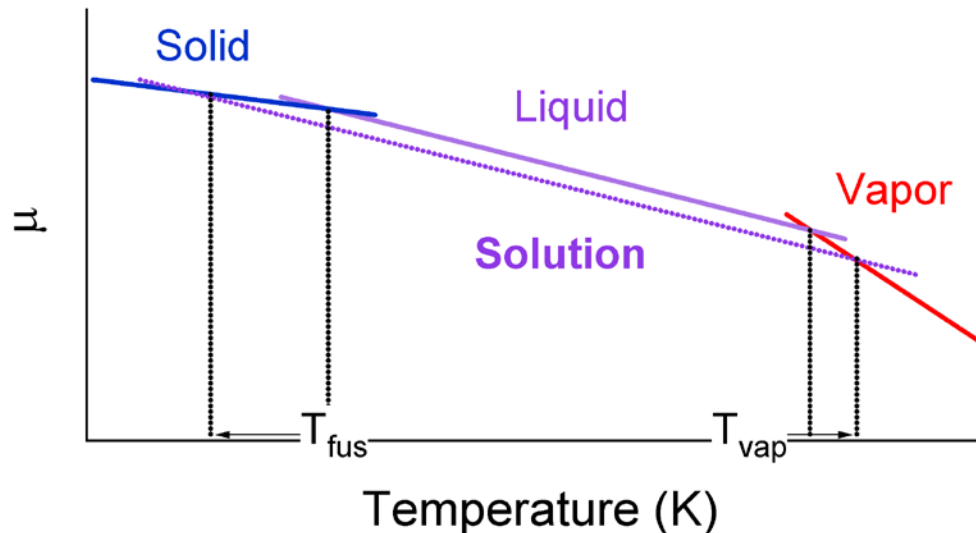


Question

Which is an accurate expression of the boiling point elevation in terms of the activity of the solvent?

- A. $\ln a_1 = \Delta_{\text{vap}} H / R (1/T - 1/T^*)$
- B. $a_2 = \Delta_{\text{vap}} H / R (1/T - 1/T^*)$
- C. $RT^{*2} (M_1 / 1000 \text{g kg}^{-1}) / \Delta_{\text{vap}} H$
- D. $\mu_1^{\text{soln}} = \mu_1^* + RT \ln a_1$



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Activity of the solute

Molality of the solute

Chemical potential (not boiling point elevation)

