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With $N_1 = \alpha N$ and $N_2 = (1 - \alpha)N$, where $N = N_1 + N_2$ (which is fixed), the expression for $(\Delta S)^* / k$ takes the form

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$-\alpha N \ln \alpha - (1 - \alpha)N \ln (1 - \alpha)$. The first and second derivatives of this expression with respect to α are $N \ln \alpha - N \ln (1 - \alpha)$ and $-N \ln \alpha + N \ln (1 - \alpha)$ and $-N/\alpha$ and $N/(1-\alpha)$ respectively.

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