

**Erratum: First-principles characterization of Ni diffusion kinetics in  $\beta$ -NiAl**  
**[Phys. Rev. B **78**, 184105 (2008)]**Kristen A. Marino and Emily A. Carter  
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Equation (8) should read:

$$D = \left( \frac{1}{6} a^2 \nu_0 e^{(-\Delta S^\ddagger/k_B)} \right) e^{(-Q/k_B T)}.$$

There is an extra  $T$  in the first exponential in the published paper.

The value of  $\hbar$  was erroneously used instead of Planck's constant,  $h$  ( $h=2\pi\hbar$ ), when calculating vibrational entropies using Eq. (9). The consequence of this error is that the values given for the entropic factors,  $e^{(-\Delta S/k_B)}$ , and diffusion constant pre-exponential factors,  $D_0$ , in Tables I, IIb, IIIb, IVb, and V are too large by a factor of  $2\pi$ . This error does not affect the overall trends or conclusions presented in the paper, but the agreement of the pre-exponential factors with experimental data is poorer than previously represented.