

ADDITIONS AND CORRECTIONS

1998, Volume 102A

L. Chaix, H. van den Bergh, and M. J. Rossi*: Real-Time Kinetic Measurements of the Condensation and Evaporation of D₂O Molecules on Ice at 140K < *T* < 220 K

Page 10308. The following is a corrected version of Table 7.

TABLE 7: Temperature Dependence of the Model Rate Constants (see Scheme 2) in the System D₂¹⁸O vapor/D₂¹⁶O Ice for Three Temperatures

<i>T</i> (K)	single crystal ice				condensed ice				bulk ice (B)			
	<i>k</i> ₁ ^{<i>b</i>}	<i>k</i> ₂ ^{<i>c</i>}	<i>k</i> ₃ ^{<i>c</i>}	<i>k</i> ₄ ^{<i>b</i>}	<i>k</i> ₁ ^{<i>b</i>}	<i>k</i> ₂ ^{<i>c</i>}	<i>k</i> ₃ ^{<i>c</i>}	<i>k</i> ₄ ^{<i>b</i>}	<i>k</i> ₁ ^{<i>b</i>}	<i>k</i> ₂ ^{<i>c</i>}	<i>k</i> ₃ ^{<i>c</i>}	<i>k</i> ₄ ^{<i>b</i>}
140	19	0.5	153	0.005	26	0.6	120	0.005	38	0.3	80	0.02
170	19	5	230	5	26	6.0	180	0.700	38	2.5	130	2.5
200	19	29	310	29.0	26	35.0	243	27	38	25	160	54
<i>E</i> _{<i>i</i>} (kcal/mol)	0	4.0	0.6	7.4	0	3.8	0.67	8	0	3.9	0.64	8.2
ΔH_{sub}^a (kcal/mol)		10.8				11.1				11.5		

^a $\Delta H_{\text{sub}} = E_1 - E_2 + E_3 - E_4$. The rate constants take into account the surface-to-volume ratio of the flow reactor used in the present work. ^b *k* is expressed in units of 10¹⁶ molecule⁻¹ s⁻¹. ^c *k* is expressed in units of s⁻¹.

10.1021/jp990433s

Published on Web 03/19/99