ADDITIONS AND CORRECTIONS

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Timothy I. Morrow and Edward J. Maginn*: Molecular Dynamics Study of the Ionic Liquid 1-n-Butyl-3-methylimidazolium Hexafluorophosphate

Page 12807. Equation 1 reads

$$\begin{split} V_{\text{tot}} &= \sum_{\text{bonds}} k_b (r - r_0)^2 + \sum_{\text{angles}} k_\theta (\theta - \theta_0)^2 + \\ &\sum_{\text{dihedrals}} k_\chi [1 + \cos(n\chi - \delta)] + \sum_{\text{improper}} k_\psi (\psi - \psi_0)^2 + \\ &\sum_{i=1}^{N-1} \sum_{j>i}^N \biggl\{ \epsilon_{ij} \biggl[\biggl(\frac{r_{\text{min},ij}}{r_{ij}} \biggr)^{12} - \biggl(\frac{r_{\text{min},ij}}{r_{ij}} \biggr)^6 \biggr] + \frac{q_i q_j}{r_{ij}} \biggr\} \end{split}$$

And should read

$$\begin{split} V_{\text{tot}} &= \sum_{\text{bonds}} k_b (r - r_0)^2 + \sum_{\text{angles}} k_\theta (\theta - \theta_0)^2 + \\ &\sum_{\text{dihedrals}} k_\chi [1 + \cos(n\chi - \delta)] + \sum_{\text{improper}} k_\psi (\psi - \psi_0)^2 + \\ &\sum_{i=1}^{N-1} \sum_{j>i}^N \left\{ \epsilon_{ij} \left[\left(\frac{r_{\text{min},ij}}{r_{ij}} \right)^{12} - 2 \left(\frac{r_{\text{min},ij}}{r_{ij}} \right)^6 \right] + \frac{q_i q_j}{r_{ij}} \right\} \end{split}$$

(that is, there is a factor of 2 missing in front of the attractive dispersion term).

Page 12808. The units of Table 2 were incorrectly listed, and several entries were missing. The following is a corrected Table 2.

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TABLE 2: Bond, Angle, Dihedral, and Improper Force Constants

	force co	constant				force constant			
force					force	k_b (kJ			
bonds	mol^{-1}	A^{-2})	r_0 (Å	()	bonds	mol	$^{-1}$ Å $^{-2}$)	ř	(Å)
C ₆ -N ₃	921	.1	1.47	0	C7-H7,8			1	1.091
C_7-N_1	921	.1	1.48	3	$C_{8,9}-H_{9,10,11,12}$			1	1.096
$C_{5,4}-N_{1,3}$	1674		1.38		$C_{10}-H_{13,14,15}$				1.093
$C_2 - N_{1,3}$	1674.7		1.33		C_7-C_8		837.4		1.530
C_4-C_5	1716	.6	1.36		C_8-C_9		931.6		1.534
C_2-H_1			1.07		$C_9 - C_{10}$		931.6		1.530
$C_{4,5}-H_{2,3}$			1.07		P-F	10	089.8	1	1.646
$C_6-H_{4,5,6}$			1.08	9					
angles		k_{θ} (kJ $^{-1}$ rad $^{-2}$)		θ_0 leg)	angles	me	k_{θ} (kJ ol ⁻¹ rad ⁻²)		θ_0 (deg)
						1110			
$C_8-C_7-N_1$		586.2		12.6	$H_7-C_7-H_8$		148.6		107.2
$C_{5,4}-N_{1,3}-C_{5,4}$		544.3		08.3	$H_{7,8}-C_7-C_8$		139.8		111.5
C ₇ -N ₁ -C ₂ , C ₆ -N ₃ -C ₂		544.3		25.9 25.8	$H_{9,10}-C_8-C_7$		139.8 244.5		109.5
$H_{4.5.6}-C_6-E_6$		544.3 125.6		23.8	C _{7,8} -C _{8,9} -C _{9,1} H-C _{8,9} -H	0	244.5 144.4		111.6 106.4
$H_1-C_2-N_1$		104.7		25.5	$C_{8,9}-C_{9,10}-H$		144.6		100.4
$N_{1,3}-C_{5,4}-C_{5,4}$		544.3		07.2	$H_{9,10}-C_8-C_9$		144.6		109.7
$N_1-C_2-N_3$		544.3		09.1	H _{11.12} -C ₉ -C ₁₀		144.6		109.7
H _{2,3} -C _{4,5} -		104.7		30.8	$H_{I3,14,15}-C_{10}-I$		148.6		107.6
$H_{4,5,6}-C_6-1$		148.6		09.3	$N-C_7-H_{8,9}$		125.6		106.8
$N_{1,3}-C_{5,4}-1$		104.7		22.1	F-P-F		812.7		90.0
		k_{χ} (kJ		δ			k _γ (kJ		δ
dihed	ral	mol ⁻¹)	n ((deg)	dihedral		mol ⁻¹)	n	(deg)
$C_2 - N_{1,3} - C$	$_{5,4}$ - $C_{4,5}$	58.6	2	180	$C_8 - C_9 - C_{10} - F_{10}$	I	0.67	1	0
$N_1 - C_5 - C_4$	$-N_3$	58.6	2	180	H _{2,3} -C _{4,5} -N _{3,1} -	$-C_2$	12.6	2	180
$N_{1,3}-C_2-N$		58.6	2	180	$N_{1,3}-C_{5,4}-C_{4,5}$			2	180
$H_1-C_2-N_{1,}$		12.6	2	180	$N_{1,3}-C_2-N_{3,1}-$			2	180
$H_2-C_4-C_5$		8.37	2	180	$H_1-C_2-N_{3,1}-$			2	180
$C_{4,5}-C_{5,4}-1$		0.0	1	0	$H_{2,3}-C_{4,5}-N_{3,1}$			2	180
$C_{4,5}-N_{3,1}-C_{4,5}$		0.0	3	0	$C_2-N_{1,3}-C_{7,6}-$			2	180
$C_2 - N_{3,1} - C$		0.42		180	$N_1 - C_7 - C_8 - H$			3	0
$C_5-N_1-C_7$		0.84	1	0	$C_7 - C_8 - C_9 - C$		0.63	1	0
N_1 - C_7 - C_8	-	0.0	1	0	$H_{7,8}-C_7-C_8-1$			3	0
H-C ₉ -C ₁₀ - H _{7.8} -C ₇ -C		0.67 0.82	2	0	$H-C_8-C_9-C_1$			2	0
H _{7,8} -C ₇ -C	8-C9			U	$C_7 - C_8 - C_9 - H$	11,12			
improp	er n	k_{ψ} (kJ nol ⁻¹ rad	$ ^{-2}$)	ψ_0 (deg) improper	r	k_{ψ} (kJ nol $^{-1}$ rad $^{-}$	⁻²)	ψ_0 (deg)
${H_1-N_1-N_3}$	-C ₂	0.50		0	H _{2.3} -N _{3.1} -C _{4.5}	5-C	0.50		0
N _{1,3} -C _{4,5} -C	-	0.60		0	2,3 - 3,1 04,.	-			-
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