ADDITIONS AND CORRECTIONS

1999, Volume 103

P. Tarakeshwar and Kwang S. Kim*: A Theoretical Investigation of Benzene $-AIX_3$ and Ethene $-AIX_3$ (X = H, F, Cl) Interactions

Page 9119: In paragraph 3 of the left column, the first sentence should read as follows:

Earlier theoretical studies on the binding of AlH₃ to NH₃ have obtained a CCSD/DZP ZPVE corrected binding energy of 26.5 kcal/mol.^{12b} However, the study of the interaction of BH₃ with NH₃ has not been reported at the same level of theory.

Page 9120. The last row in Table 3 should read as follows:

TABLE 3: Comparison of the Frequencies of the Stretching and Bending Modes of AlH₃, AlF₃, and AlCl₃ and Their Frequency Shifts in the Complexed States along with the van der Waals Modes at the MP2/6-31+G* Level^a

mode	AlH ₃	C_2H_4 -Al H_3	C_6H_6 -Al H_3	AlF ₃	C_2H_4 -AlF ₃	C_6H_6 -AlF ₃	AlCl ₃	C_2H_4 -AlCl ₃	C ₆ H ₆ -AlCl ₃
$\phi_{ m op}$		483[15]	417[1]		370[1]	125[0]		400[20]	104[0]

^{*a*} All frequencies are in cm^{-1} . IR intensities (km/mol) are enclosed in brackets adjacent to the frequency shifts. ^{*b*} The van der Waals mode definitions are given in ref 45.

Page 9120: In paragraph 2 of the right column, the first two lines should read as follows:

Though the charges on Al exhibit small changes upon complexation in conformers 2, 4, and 6, the changes in the....

Page 9121: In paragraph 1 of the right column, the last sentence should read as follows:

It can also be correlated to the charge transfer from benzene to both AlF_3 (0.10 e) and $AlCl_3$ (0.13 e) in these conformers.

Page 9122: In paragraph 1 of the left column, the last sentence should read as follows:

What they found was that even in the absence of covalent contributions, Me₃N was very strongly bound to AlCl₃ (binding energy of 49.3 kcal/mol).

Page 9122: In paragraph 1 of the right column, the last but one sentence should read as follows:

This aspect is confirmed by the dominant contributions of the electrostatic energies (ΔE_{es}) to the binding energy.

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