## ADDITIONS AND CORRECTIONS

1999, Volume 103
P. Tarakeshwar and Kwang S. Kim*: A Theoretical Investigation of Benzene $-\mathrm{AlX}_{3}$ and Ethene $-\mathrm{AlX}_{3}(\mathrm{X}=\mathrm{H}, \mathrm{F}$, $\mathrm{Cl})$ Interactions

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

Earlier theoretical studies on the binding of $\mathrm{AlH}_{3}$ to $\mathrm{NH}_{3}$ have obtained a CCSD/DZP ZPVE corrected binding energy of 26.5 $\mathrm{kcal} / \mathrm{mol} .{ }^{12 \mathrm{~b}}$ However, the study of the interaction of $\mathrm{BH}_{3}$ with $\mathrm{NH}_{3}$ 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 $\mathrm{AlH}_{3}, \mathrm{AlF}_{3}$, and $\mathrm{AlCl}_{3}$ and Their Frequency Shifts in the Complexed States along with the van der Waals Modes at the MP2/6-31+G* Level ${ }^{a}$

| mode | $\mathrm{AlH}_{3}$ | $\mathrm{C}_{2} \mathrm{H}_{4}-\mathrm{AlH}_{3}$ | $\mathrm{C}_{6} \mathrm{H}_{6}-\mathrm{AlH}_{3}$ | $\mathrm{AlF}_{3}$ | $\mathrm{C}_{2} \mathrm{H}_{4}-\mathrm{AlF}_{3}$ | $\mathrm{C}_{6} \mathrm{H}_{6}-\mathrm{AlF}_{3}$ | $\mathrm{AlCl}_{3}$ | $\mathrm{C}_{2} \mathrm{H}_{4}-\mathrm{AlCl}_{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\phi_{\text {op }}$ | $483[15]$ | $417[1]$ | $370[1]$ | $125[0]$ | $\mathrm{C}_{6} \mathrm{H}_{6}-\mathrm{AlCl}_{3}$ |  |  |  |

${ }^{a}$ All frequencies are in $\mathrm{cm}^{-1}$. IR intensities ( $\mathrm{km} / \mathrm{mol}$ ) 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 $\mathbf{2}, \mathbf{4}$, and $\mathbf{6}$, 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 $\mathrm{AlF}_{3}(0.10 \mathrm{e})$ and $\mathrm{AlCl}_{3}(0.13 \mathrm{e})$ 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, $\mathrm{Me}_{3} \mathrm{~N}$ was very strongly bound to $\mathrm{AlCl}_{3}$ (binding energy of $49.3 \mathrm{kcal} / \mathrm{mol}$ ).

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 ( $\Delta E_{\text {es }}$ ) to the binding energy.
10.1021/jp993875c

Published on Web 12/01/1999

