Corrigenda

J. Organometal. Chem., Vol. 74, No. 2 (July 23rd, 1974)

Page 178, Fig.2.

It has been pointed out to us that there is an error in Fig. 2 of our paper. This Lippert plot should have been plotted k cm^{-1} vs. k instead of kcal vs. k. The corrected slope should then be 7.83 k cm^{-1}/mole rather than 22.4 kcal/mole. This correction now indicates that the excited state is less polar than that of 4-nitro-4-dimethyl-aminostilbene (NDS). After a closer examination of the theory and assumptions leading to Lippert's original slope of 11 k cm^{-1}/mole for NDS it became obvious that a direct comparison of our slope of 7.83 k cm^{-1}/mole for anilinodimesitylborane with that of 11 k cm^{-1}/mole for NDS will lead to incorrect conclusions. Lippert assumed that NDS, a planar compound with charges located at its ends, is a spherical compound with charges located at its center. The anilinodimesitylboranes are nearly spherical as a model of 2,6-dimethylaminodimesitylborane will show, and they do have their dipole located in the center of the molecule. This difference, i.e. charges at the end of a planar compound free to solvate vs. charges in the center of a spherical compound, half of which is secluded by methyl groups, would lead to completely different magnitudes of solvation about equal charges. A comparison of the slopes from Lippert plots of such different compounds would not be expected to lead to a correct correlation of the relative magnitudes of charge separation in the excited states.

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J. Organometal. Chem., Vol. 84, No. 1 (January 7th, 1975)

Page C11

The alkylation of ligating dinitrogen to form alkylazo and related complexes

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