

Corrigendum

Reactions of Bis(trimethylsilyl)bromomethylithium and Tris(trimethylsilyl)methylithium. The Synthesis of α -Bromovinylsilanes; by Dietmar Seyferth, James L. Lefferts and Robert L. Lambert, Jr. (Department of Chemistry, Massachusetts Institute of Technology, Cambridge MA 02139, U.S.A.) (*J. Organometal. Chem.*, 142 (1977) 39–53.)

It has come to our attention that some of the *E/Z* isomer assignments made in this paper (cf. Tables 1 and 2) are incorrect. We have reevaluated our isomer assignments on the basis of the chemical shifts of the vinyl protons in each $\text{Me}_3\text{SiC}(\text{Br})=\text{CHR}$ isomer. The observed values were compared with values calculated for each isomer by the equation $\delta(\text{C}=\text{CH}) = 5.25 + Z(\text{gem}) + Z(\text{cis}) + Z(\text{trans})$, where the *Z* factors are the substituent shielding coefficients [1]. Using literature *Z* values for Br, alkyl and aryl [1] and for trimethylsilyl [2], the calculated $\delta(\text{C}=\text{CH})$ values, upon comparison with the observed values, show that our *E/Z* assignments should be reversed for $\text{Me}_3\text{SiC}(\text{Br})=\text{CHCH}_3$, $\text{Me}_3\text{SiC}(\text{Br})=\text{CHCHMe}_2$ and $\text{Me}_3\text{SiC}(\text{Br})=\text{CHCMe}_3$, but not for $\text{Me}_3\text{SiC}(\text{Br})=\text{CHPh}$. Appropriate corrections should be made in Tables 1 and 2.

Confirmation of these corrected assignments is given by the stereospecific preparation of *E*- and *Z*- $\text{Me}_3\text{SiC}(\text{Br})=\text{CHCMe}_3$ by other routes by Zweifel and Lewis [3] who assigned stereochemistry on the basis of the proton NMR spectra of the $\text{Me}_3\text{SiCH}=\text{CHCMe}_3$ isomers obtained on protonolysis of the lithium reagents derived from the respective α -halovinylsilanes.

We note also that the conformational arguments on which the original isomer assignments are based must not be valid.

We thank Professor G.L. Larson for calling these incorrect isomer assignments to our attention.

References

- 1 U.E. Matter, C. Pascual, E. Pretsch, A. Pross, W. Simon and S. Sternhell, *Tetrahedron*, 25 (1969) 691.
- 2 T.H. Chan, W. Mychajloskij and R. Amouroux, *Tetrahedron Lett.*, (1977) 1605.
- 3 G. Zweifel and W. Lewis, *J. Org. Chem.*, 43 (1978) 2739.