

Journal of Organometallic Chemistry, 135 (1977) C35-C36
© Elsevier Sequoia S.A., Lausanne - Printed in The Netherlands

Book review

"Inorganic Syntheses", Vol. XVI, F. Basolo, editor-in-chief, McGraw Hill Book Co., New York, 1976, xii + 257 pages, \$22.95.

The newest volume of this well-established series has much for the organometallic chemist: a 44 page chapter on the synthesis of diverse metal-nitrosyl complexes; a very useful 30 page chapter on metal carbonyl compounds, including recipes for the synthesis of $\text{Ru}_3(\text{CO})_{12}$, $\text{Rh}_6(\text{CO})_{16}$, $\eta^5\text{-C}_5\text{H}_5\text{Mn}(\text{CO})_2(\text{CS})$, magnesium derivatives of iron, cobalt and molybdenum carbonyls, and salts of the $\text{Nb}(\text{CO})_6^-$ and $\text{Ta}(\text{CO})_6^-$ anions; a chapter on "Werner-type Metal Complexes", which includes directions for the preparation of $(\text{R}_3\text{P})_2\text{TiCl}_3$ complexes; a chapter entitled "Other Transition Metal Complexes", in which are found preparative directions for useful and interesting compounds such as benzylidene-acetone tricarbonyliron, (1,5-cyclo-octadiene)tricarbonylruthenium, $(\eta^5\text{-C}_5\text{H}_5)_2\text{NbCl}_2$, olefin(β -diketonato)-silver(I) complexes, methyltitanium trihalides, and $(\text{Ph}_3\text{P})_2\text{Ph}(\text{C}_2\text{H}_4)$ and related complexes. A chapter on main group and actinide compounds brings recipes for diindenylmagnesium, the methylfluoro-silanes, and $(\text{C}_5\text{H}_5)_3\text{UCl}$ and $(\text{C}_5\text{H}_5)_3\text{ThCl}$, and a very useful chapter is devoted to the synthesis of ligands which find use in the preparation of transition metal complexes, mostly phosphines and phosphites. A chapter dealing with compounds of biological interest (including metalloporphyrins, metallatranes, $\eta^5\text{-C}_5\text{H}_5\text{TiCl}_2$ polymer) concludes the book.

The features of the "Inorganic Syntheses" volumes which make them so valuable are well known: above all, recipes which have been checked before publication, so that one may hope that they can be repeated; then, also, the words of caution concerning the potential dangers of any preparation; uniform nomenclature; the useful references which are provided with each synthesis; a good subject and formula index.

One might criticize this book for its strong bias toward transition metal complexes. There is very little preparative fare for those active in main group chemistry. However, within this constraint, no doubt due to the interests and background of the editor, the selections of the syntheses to be included were very

good. Three further volumes of this series are in preparation.

Department of Chemistry
Massachusetts Institute of Technology
Cambridge, Massachusetts 02139 (USA)

Dietmar Seyferth

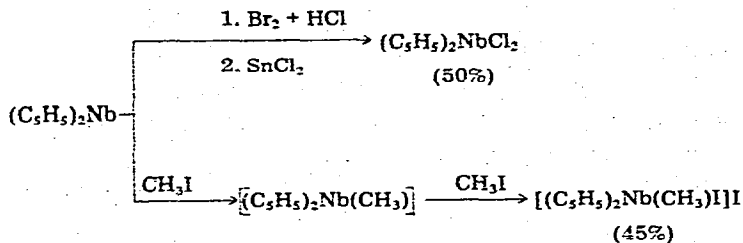
Errata

J. Organometal. Chem., Vol. 132, No. 1 (May 24th, 1977)

Page C7, Table 2, 4th entry: the value for $\delta(\text{Me})$ should read: $-0.13(\text{t})$.

J. Organometal. Chem., Vol. 132, No. 2 (May 31st, 1977)

Page C12, the equation should read:



J. Organometal. Chem., Vol. 133, No. 1 (June 14th, 1977)

Page C10, the 9th entry of the first column of Table 1 should read:

VIII *c,d* and XVI *c*