

Book review

Gmelin Handbook of Inorganic Chemistry. 8th Edition, *Rh Rhodium, Supplement Volume B3. Coordination Compounds with Ligands Containing S, Se, Te, P, As, Sb and Metals*; by W.P. Griffith, J.A. McCleverty, and Stephen D. Robinson, volume authors; W.P. Griffith and K. Swars, editors. Gmelin Institut für Anorganische Chemie der Max-Planck-Gesellschaft zur Förderung der Wissenschaften and Springer-Verlag, Berlin/Heidelberg/New York, 1984, xviii + 248 pages, DM 972, ISBN 3-540-93507-X, ISBN 0-387-93507-X.

This is the final volume dealing with the coordination chemistry of rhodium; volumes B1 and B2 appeared in 1982 and 1984, respectively. Volume B3 is concerned with the complexes of the element containing heavier Main Group VI and Group V donors, as well as with a small set of compounds in which there is a rhodium-metal bond. The largest sections relate to complexes having either sulphur or phosphorus as ligating atoms. Much of the current interest in the coordination chemistry of rhodium derives from the use of some rhodium complexes as homogeneous catalysts and this aspect is, of course, of major interest to many readers of this *Journal*; however, catalytic reactions are not discussed, although references are given to many recent reviews. The large literature on carbonyl-phosphine complexes has been excluded, in keeping with the traditional Gmelin arrangement of material, and is to be incorporated in a future volume.

The detailed contents of the major sections are as follows; 1, Coordination Compounds Containing Sulphur (58 pages); 2, Coordination Compounds Containing Selenium (5 pages); 3, Coordination Compounds Containing Tellurium ($\frac{1}{2}$ page); 4, Coordination Compounds Containing Phosphorus (135 pages); 5, Coordination Complexes Containing Arsenic (31 pages); 6, Coordination Compounds Containing Antimony (6 pages); and 7, Coordination Compounds Containing Rhodium-Metal Bonds (9 pages). Section 4 has 31 major subdivisions.

The authors are well known practitioners in the field, and hence write with great authority. In a review of the companion volume, B2, I drew attention to a rhodium(I) amide which appeared to be missing; it also contains triphenylphosphine ligands and is, of course, thus found in the present volume.

The combined B2/B3 volumes are fully up to the high standards which we have come to expect from the Gmelin series.