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Book review

Gmelin handbook of inorganic chemistry, 8th edition, Sb-organostimony compounds, part V, compounds of pentavalent antimony with two, three, and one Sb-C bonds, Springer-Verlag, Berlin, 1990, xiii + 406 pages. DM 1964.00. ISBN 3-540-93613-0.

This volume concludes the series on organostimony compounds. The account of pentavalent compounds began in Part 4 with species of the type R_3SbX_2 , and is completed here for $R_3Sb(X)Y$, $R_2R'SbX_2$, $R_2R'Sb(X)Y$, and $RR'R''SbX_2$ compounds and related binuclear compounds of types such as $(R_3XSb)_2E$ (where $E = O, S, SO_4, SeO_4, NH$), $(RR'X_2Sb)_2O$, $(RR'X_2Sb)_2(CH_2)_n$ ($n = 1, 3, 4$). (X and Y here and below indicate inorganic or organic groups bound to antimony through an atom other than carbon. R, X , and/or Y may also be chelating ligands.) There are then accounts of corresponding compounds containing two or one Sb-C bonds, such as R_2SbX_3 , $(R_2X_2Sb)_2O$, $RSbX_4$. The adducts that many of these compounds form with Lewis bases and the ionic complexes produced by addition of salts such as amine hydrochlorides are described under the entries for the parent substances. Details of molecular structures determined by X-ray crystallography are given where available. There is the usual formula index and very helpful ligand index. The literature is systematically covered up to the end of 1988, but there are some later references.

The authors, M. Mirbach and M. Wieber, have produced the very high quality account we expect for the Gmelin series. The set of volumes on organostimony compounds will be invaluable to workers in the field.

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Announcement

ICOCC-7. The VIIth International Conference on the Organometallic and Coordination Chemistry of Germanium, Tin, and Lead will be held in Riga, Latvia, on 20–25th September 1992. Inquiries should be addressed to: Dr. L. Ignatovich, Secretary to the Organizing Committee VIIth ICOCC Ge-Sn-Pb, Institute of Organic Synthesis, Aizkraukles 21, Riga 6 (Latvia).