

The volume is essentially in two parts. The first deals with ion exchange and solvent extraction reactions of these elements (136 pages). It is the second part which deals with organometallic compounds (150 pages). There is also an empirical formula index (13 pages) and a table (2 pages) of conversion factors for units of force; pressure; work, energy, and heat; and power, which have no obvious connection with the rest of the book (but have become a feature in recent Gmelin monographs).

In Part 2, much useful information is collected in tables. It would be difficult to find fault with the organometallic section, except possibly in an organisational sense. For example, one might have thought that the cyclopentadienyls of Yb^{II} could usefully have been considered together, but instead we find compounds having the C_5H_5^- ligand dealt with separately from others such as those containing C_5Me_5^- or $\text{C}_5\text{H}_4\text{Me}^-$, etc., irrespective of whether it is the oxidation state +3 or +2 which is under consideration.

The work, as is now the custom, is written in English and is attractively produced.

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Gmelin Handbook of Inorganic Chemistry. 8th Edition, Mn—Manganese Part C10: Electronic Spectra of Manganese Halides. Cumulative Substance Index of C1 to C10; by G. Kirschstein and P. Kuhn; H. Katscher, chief editor. Gmelin Institut für Anorganische Chemie der Max-Planck-Gesellschaft zur Förderung der Wissenschaften and Springer-Verlag, Berlin/Heidelberg/New York, 1983, x + 396 pages, DM 1257.

There is almost nothing in this volume of direct interest to organometallic chemists. The spectroscopic part (closing date for literature 1980) occupies the first 57 pages and the remainder is taken up by the Cumulative Substance Index for Volumes C1 to C10. It is perhaps, therefore, appropriate to indicate the titles for these: C1, Compounds (Hydrides. Oxides. Oxide Hydrates. Hydroxides); C2, Compounds (Oxomanganese Ions. Permanganic Acid. Compounds and Phases with Metals of the Main Groups and Subgroups I and II); C3, Compounds of Manganese with Oxygen and Metals of the Main and Sub-Groups III to VI. Compounds of Manganese with Nitrogen; C4, Compounds of Manganese with Fluorine; C5, Compounds of Manganese with Chlorine, Bromine, and Iodine; C6, Compounds of Manganese with Sulfur, Selenium, Tellurium, Polonium; C7, Compounds of Manganese with Boron and Carbon; C8, Compounds of Manganese with Silicon; and C9, Compounds with Phosphorus, Arsenic, Antimony.

This reviewer feels that even the inorganic chemist having a direct interest in some aspects of the chemistry covered in the Manganese C Series will not find the index particularly valuable.

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