Journal of Organometallic Chemistry, 193 (1980) C31—C32

Book review

Landolt-Börnstein. Numerical Data and Functional Relationships in Science and Technology. New Series. (Editor in Chief, K.-H. Hellwege). Group III. Crystal and Solid State Physics. Volume 7. Crystal Structure Data of Inorganic Compounds. Springer-Verlag, Berlin - Heidelberg - New York.

Part b2 Key Elements O, S, Se, Te; Substance Numbers b1818 - b2804 (W. Pies and A. Weiss), 1980, xxv + 210 pages, DM 265.

Part c3 Key Element C; Substance Numbers c3339 - 34734 (H.-P. Boehm, H.J. Meyer, W. Pies, and A. Weiss), 1979, xxvii + 291 pages, DM 360.

These additions to Volume 7 of this fine series continue the comprehensive listing of structure data for inorganic compounds the crystal structures of which have been examined by X-ray, neutron or electron diffraction and for which at least the lattice constants were determined. For each compound are given the chemical formula and, where relevant, the mineral name, the space group, lattice constants, number of formula units in the unit cell, density, structure type, the scope of the structural determination, the diffraction method used, some additional information on colour, optical properties, magnetic properties etc., and the reference(s).

Part b2 (like Part b1) presents data on the key element O. It deals with oxide hydrides, simple oxide halides, simple hydroxide halides, oxo-compounds of halogens and xenon, and oxo-compounds of (i) chlorine, (ii) bromine, (iii) iodine, and (iv) xenon. Coverage is comprehensive to the

end of 1971, but some more recent references are also cited.

Part c3 deals with graphite intercalation compounds, carbides, carbonyls, carbonates, cyanides, other compounds containing the CN grouping (cyanamides, fulminates, cyanates, thiocyanates, selenocyanates), and a few miscellaneous species. The extensive data on metal carbonyls will be of special interest to readers of this Journal.

School of Molecular Sciences,
University of Sussex,
Brighton BN1 9QJ,
Great Britain.

Colin Eaborn