

Landolt-Börnstein. Numerical Data and Functional Relationships in Science and Technology. New Series (Ed. in Chief, K.-H. Hellwege). Group II. Atomic and Molecular Physics. Vol.10. Magnetic Properties of Coordination and Organometallic Transition Metal Compounds. Supplement 2 (1969, 1970), by E. Van König and G. König, Springer, Berlin-Heidelberg-New York, 1979, XXXV + 982 pages, DM 980.

This volume contains two Parts, both of direct interest to organometallic chemists. Part 1 (746 pages) is concerned with the magnetic susceptibility and Part 2 (235 pages) with the electron spin resonance of coordination and organometallic transition metal compounds. For each compound are listed the gram and molar susceptibility at specified temperatures, the magnetic moment, the Weiss constant Θ , the method used in the measurement, a brief comment on any special features, and the literature reference. The compounds considered are ordered into four main groups, viz. (i) simple compounds and coordination compounds with simple anionic ligands, (ii) coordination compounds with neutral and chelating ligands, (iii) organometallic compounds, and (iv) biological compounds. In part 2, for each compound are listed the form of the sample (matrix, solution, single crystal), the temperature, the g value, the A value, the ν value, a note on any special features, and the literature reference. In both cases the data are taken from publications which appeared in 1969 and 1970, and the volume follows on from the first supplement which appeared as Volume II/8.

As usual the compilation is very thorough, the presentation clear, and the general quality of the production (even the nature of the paper)

very high. The price is also very high, especially in sterling or U.S. dollar terms (£253 and \$548 at the time of this review) which will severely limit the availability of this, as of the related volumes. This is a pity, because a very large amount of information is offered in a very well-organized form.

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