

*Gmelin Handbook of Inorganic Chemistry*. 8th Edition. *Ti — Organotitanium Compounds: Part 3, Mononuclear Compounds*. Springer-Verlag, Berlin/Heidelberg/New York, 1984, ix + 268 pages, DM 880. ISBN 3-540-93494-4.

This volume (which was compiled by U. Thewalt) is the third in a series on organotitanium compounds, and is written, as is now the practice, in English. It continues the treatment of organometallic titanium compounds, having two  $\eta^5L$  groups, where  $\eta^5L$  is a ligand bound to titanium by five carbon atoms. As such, it deals with  $\eta$ -cyclopentadienyl,  $\eta$ -alkylcyclopentadienyl, and the rather rarer  $\eta^5$ -indenyl complexes. The literature is covered to the end of 1979, although a few more recent results have been included. This is a very large and topical area, and the author has produced a well organised and comprehensive account of it. The lack of an index is somewhat annoying, although the complete index for organotitanium compounds has recently been published in the final volume (Part 4) of the series. However, much of the data is summarised in clear tabular form, so that location of spectroscopic and synthetic details for most complexes is straightforward.

This volume is well up to the usual high standard of Gmelin presentation and is refreshingly free from errors; compounds of dubious existence or validity are explicitly noted as such. Whilst the price is rather daunting for the personal buyer, it will be an invaluable addition to libraries.

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