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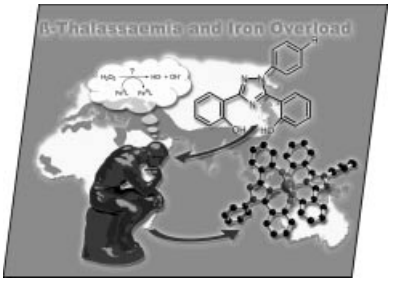
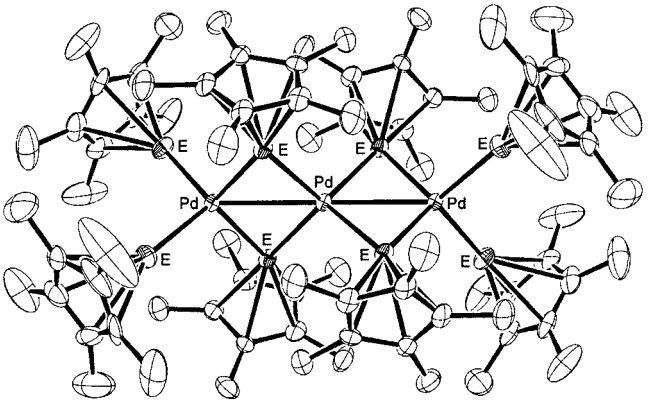
COVER PICTURE

The cover picture shows the structure of the Fe^{III}-selective chelating agent ICL670 (R = COOH). ICL670 has a high potential for the oral treatment of iron overload, a condition that originates from regular blood transfusions, as are necessary in the treatment of β-Thalassaemia. However, a possible problem arising from this treatment is the production of $OH^{\cdot}$ radicals, which can be catalysed by redox-cycling of labile Fe^{II}/Fe^{III} species. For a conclusive consideration of potential oxidative stress, a careful elucidation of the stability and redox properties of the various Fe^{II}/Fe^{III} species, which are present at physiological conditions, has been performed. Details are discussed in the article by K. Hegetschweiler et al. on p. 4177 ff..



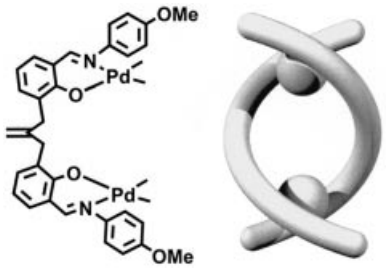
MICROREVIEW

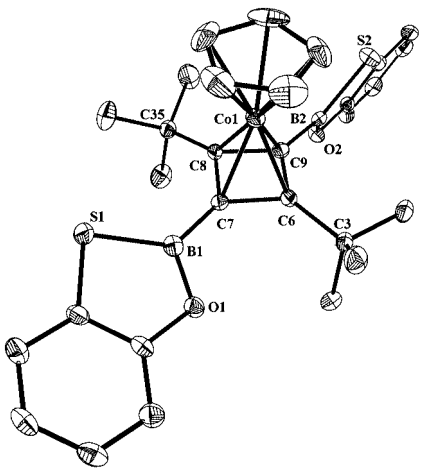
Contents

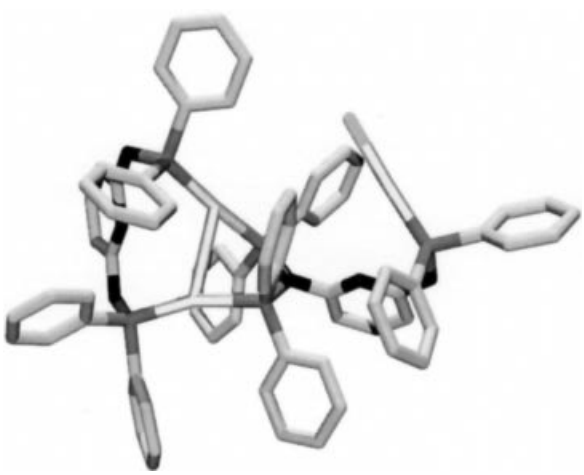


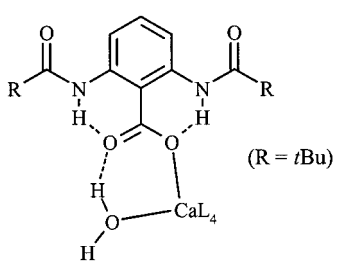
Keywords: Group 13 elements / Transition metals / Main group elements / Carbene homologues

FULL PAPERS





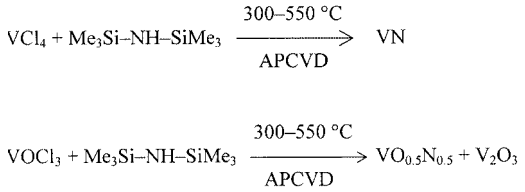




4286 A. Newport, C. J. Carmalt, I. P. Parkin,* S. A. O'Neill

Formation of VN from VCl_4 and $NH(SiMe_3)_2$ by APCVD − a Potential Solar Control Coating

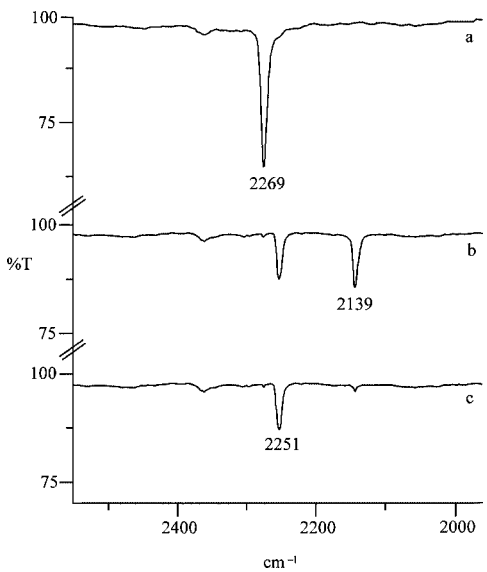
Keywords: Chemical vapour deposition / Nitrides / Solar control coatings



4291 D. Sellmann, R. Prakash,* F. W. Heinemann

Reactivity of a Thiolate-Bridged Dinuclear Ruthenium Complex with Nitrogenous Molecules: Spectroscopic Identification of a Labile Dinitrogen Complex

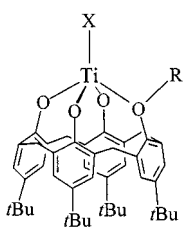
Keywords: N ligands / Nitrogenases / Nitrogen fixation / Ruthenium / S ligands



4300 A. Friedrich, U. Radius*

A Calix[4]arene Monoalkyl Ether as a Model of a Tris(phenolate) Ligand with a Hemilabile Anisole Moiety: Syntheses, Molecular Structures and Bonding of Calix[4]arene Ether Supported Titanium Complexes and Their Catalytic Activity in Epoxidation Reactions

Keywords: Calixarenes / Density functional calculations / Epoxidation / Supported catalysts / Titanium



4317 G.-P. Yong, Z. Y. Wang,* Y. Cui

Synthesis, Structural Characterization and Properties of Copper(II) and Zinc(II) Coordination Polymers with a New Bridging Chelating Ligand

Keywords: Coordination polymers / Copper / N,O ligands / Zinc