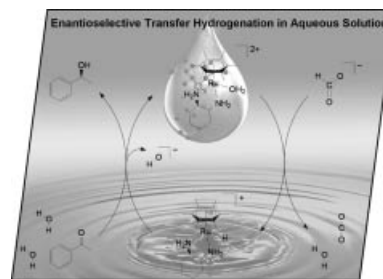


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COVER PICTURE

The cover picture shows the postulated catalytic cycle for the pH-dependent, enantioselective transfer hydrogenation of acetophenone to give phenylethanol in water, using formate as hydrogen donor and (arene)ruthenium(*trans*-diamino-cyclohexane) as chiral catalyst. This work illustrates the increasing interest for water-soluble enantioselective catalysts operating in aqueous solution. Details are discussed in the article by G. Süß-Fink et al. on p. 4493 ff.



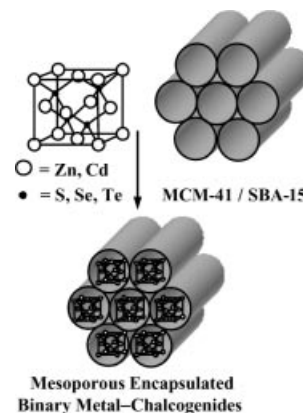
MICROREVIEW

Contents

4465 E. A. Turner, Y. Huang,* J. F. Corrigan*

Synthetic Routes to the Encapsulation of II–VI
 Semiconductors in Mesoporous Hosts

Keywords: Mesoporous materials / Semiconductors /
 Host–guest systems / Nanostructures

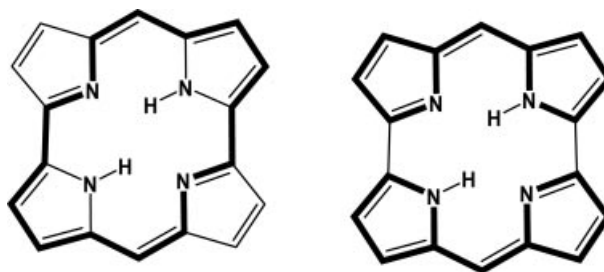


SHORT COMMUNICATIONS

4479 A. Ghosh,* I. H. Wasbotten, W. Davis,
J. C. Swarts



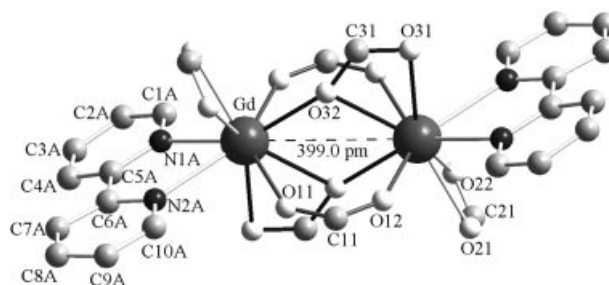
Norcorrole and Dihydronorcorrole: A Predictive
Quantum Chemical Study



Keywords: Norcorrole / Quantum chemical calculations

4486 D. John, W. Urland*

Crystal Structure and Magnetic Behaviour of
the New Gadolinium Complex Compound
 $\text{Gd}_2(\text{ClH}_2\text{CCOO})_6(\text{bipy})_2$

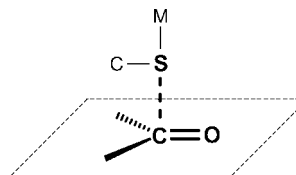


Keywords: Gadolinium / Carboxylate ligands / N li-
gands / X-ray diffraction / Crystal structure /
Magnetic properties

4490 J. Lewiński,* W. Bury, I. Justyniak



Significance of Intermolecular $\text{S}\cdots\text{C}(\pi)$ Inter-
action Involving $\text{M}-\text{S}$ and $-\text{C}=\text{O}$ Centers in
Crystal Structures of Metal Thiolate Complexes

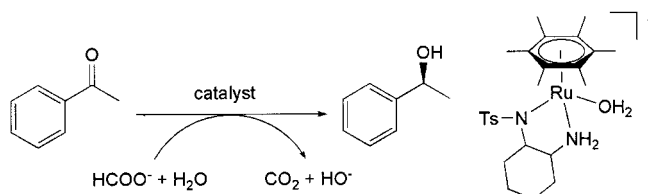


Keywords: Database analysis / Noncovalent inter-
actions / Thiolates / Metal complexes

FULL PAPERS

4493 J. Canivet, G. Labat, H. Stoeckli-Evans,
G. Süss-Fink*

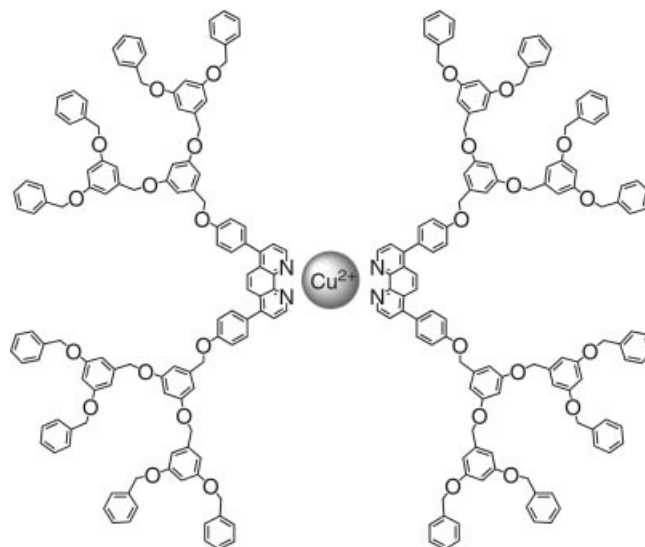
Water-Soluble Arene Ruthenium Complexes
Containing a *trans*-1,2-Diaminocyclohexane
Ligand as Enantioselective Transfer Hydrogena-
tion Catalysts in Aqueous Solution



Keywords: Ruthenium complexes / Transfer hydro-
genation / Enantioselective catalysis

- 4501** H. Stephan,* G. Geipel, G. Bernhard,
P. Comba, G. Rajaraman, U. Hahn,
F. Vögtle*

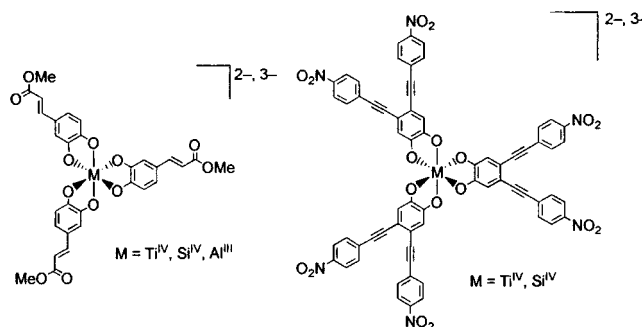
Synthesis and Binding Properties of Dendritic
Oxybathophenanthroline Ligands towards
Copper(II)



Keywords: Dendrimers / Phenanthroline / Copper(II) /
Solvent extraction / Laser fluorescence spec-
troscopy

- 4509** V. Kriegisch, C. Lambert*

Synthesis and Linear Optical Properties of Tris-
(catecholato)metal(III,IV) Complexes with Ac-
ceptor-Substituted Ligands

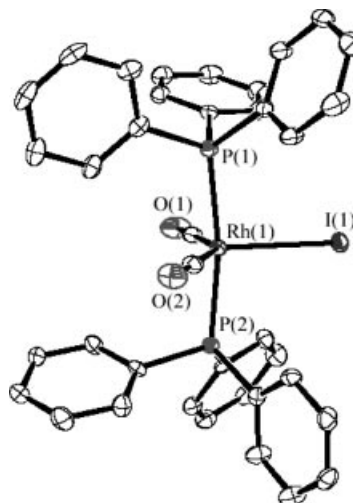


Keywords: Nonlinear optics / Octupolar complexes /
Chromophores / Donors / Acceptors /
Catecholate

- 4516** I. O. Koshevoy, O. V. Sizova, S. P. Tunik,*
A. Lough, A. J. Poë



A Novel Five-Coordinate Rhodium(I) Complex

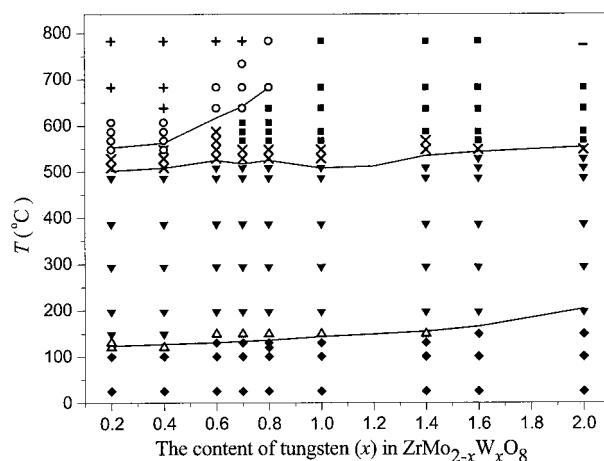


Keywords: Solid-state structures / Rhodium /
Electronic structure / Phosphane ligands /
Carbonyl ligands

4521 L. Huang, Q. Xiao, H. Ma, G. Li,
F. Liao, C. Qi, X. Zhao*

Phase Behaviors of the $\text{ZrMo}_{2-x}\text{W}_x\text{O}_8$ ($x = 0.2\text{--}2.0$) System and the Preparation of an Mo-Rich Cubic Phase

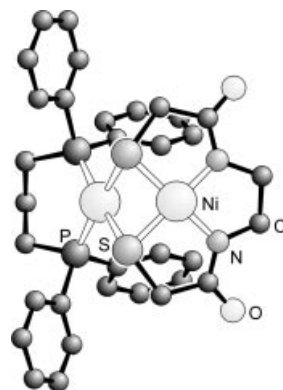
Keywords: Calorimetry / Materials science / Phase diagrams / Phase transitions / Zirconium



4527 S. E. Duff, J. E. Barclay, S. C. Davies,
P. B. Hitchcock, D. J. Evans*

Synthesis and Structural Characterisation of Group 10 Homo- and Hetero-Dimetallic Sulfur-Bridged Complexes of the $[\text{Ni}(\text{ema})(\mu\text{-S}, \text{S}')\text{-M}(\text{diphos})]$ ($\text{M} = \text{Ni}, \text{Pd}, \text{Pt}$) Type

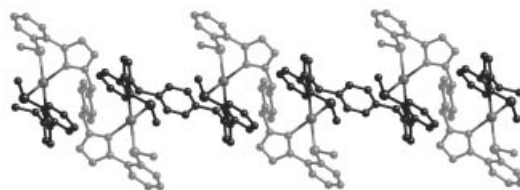
Keywords: Nickel / Palladium / Platinum / Hetero-metallic complexes



4533 T. K. Ronson, H. Adams, M. D. Ward*

Mononuclear and Polynuclear Chain Complexes of a Series of Multinucleating N/S Donor Ligands

Keywords: Chelates / Coordination chemistry / Copper / Silver / Helical structures



4550 F. Li, R. Delgado,* V. Félix

Hexaazamacrocyclic Containing Pyridine and Its Dicationic Complex as Receptors for Dicarboxylate Anions

Keywords: Hexaazamacrocyclic / Dicarboxylate anion recognition / Cascade dicopper complexes / Molecular dynamics / Receptors



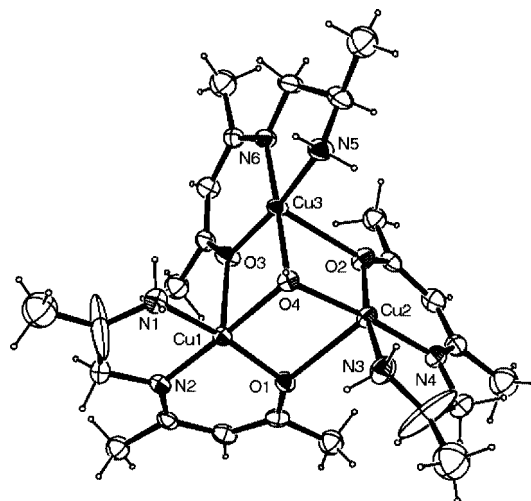
4562

M. Sinha Ray, S. Chattopadhyay,
M. G. B. Drew, A. Figuerola, J. Ribas,
C. Diaz,* A. Ghosh*



Trinuclear Cu^{II} Complexes Containing Peripheral Ketonic Oxygen Bridges and a μ_3 -OH Core: Syntheses, Crystal Structures, Spectroscopic and Magnetic Properties

Keywords: Copper trimers / Schiff bases / X-ray structures / Magnetic properties



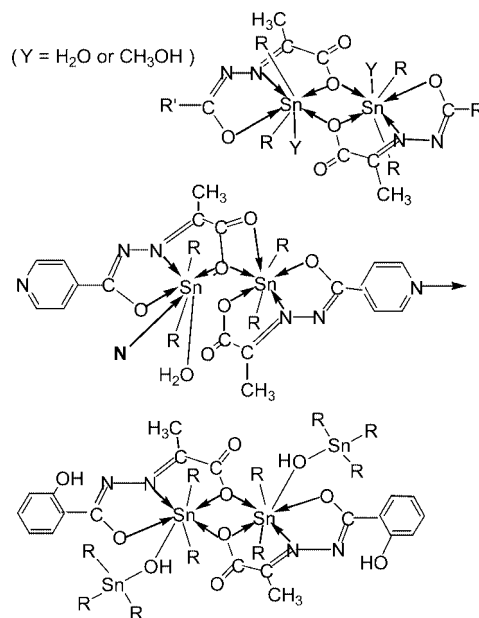
4572

H.-D. Yin,* M. Hong, H.-L. Xu, Z.-J. Gao,
G. Li, D.-Q. Wang



Self-Assembly of Organotin(IV) Moieties with the Schiff-Base Ligands Pyruvic Acid Isonicotinyl Hydrazone and Pyruvic Acid Salicylhydrazone: Synthesis, Characterization, and Crystal Structures of Monomeric or Polymeric Complexes

Keywords: N,O ligands / Self-assembly / Schiff bases / Tin

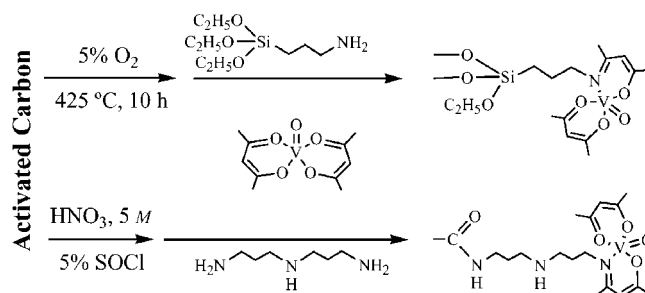


4582

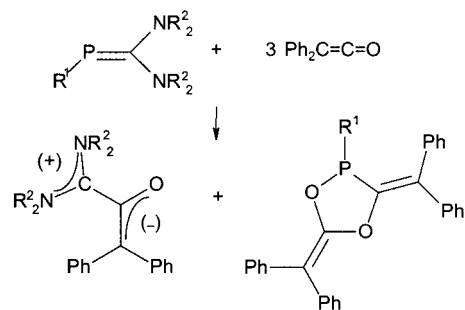
B. Jarrais, A. R. Silva, C. Freire*

Anchoring of Vanadyl Acetylacetonate onto Amine-Functionalised Activated Carbons: Catalytic Activity in the Epoxidation of an Allylic Alcohol

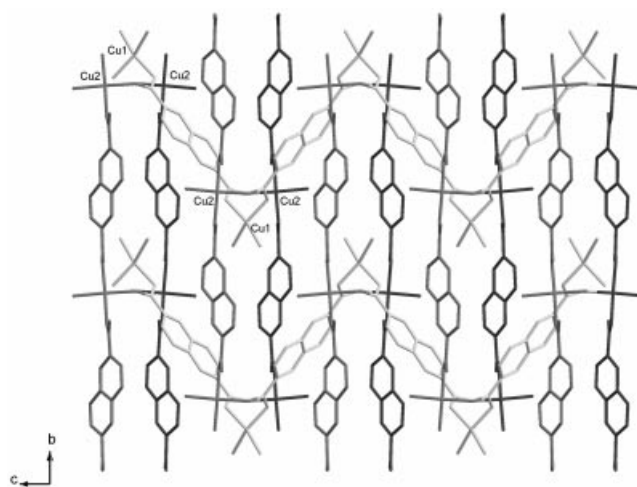
Keywords: Activated carbon / Anchoring / Epoxidation / EPR spectroscopy / Vanadium



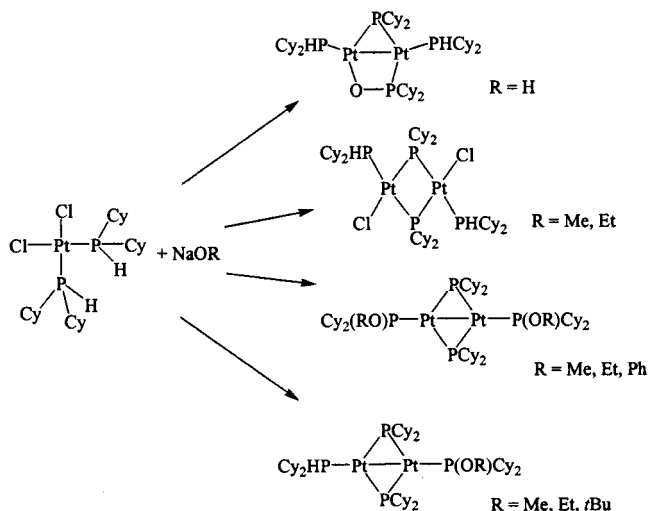
4590

L. Weber,* U. Lassahn, H.-G. Stammer,
B. NeumannInversely Polarized Phosphaalkenes as Phos-
phinidene- and Carbene-Transfer Reagents**Keywords:** Carbenes / Ketenes / Phosphaalkenes /
Phosphinidenes

4598

X. He, C.-Z. Lu,* D.-Q. Yuan, L.-J. Chen,
Q.-Z. Zhang, C.-D. WuHydrothermal Synthesis, Crystal Structures, and
Properties of a Class of 2D Coordination Poly-
mers**Keywords:** Coordination polymers / Copper / Magnetic
properties / Photoluminescence / Zinc

4607

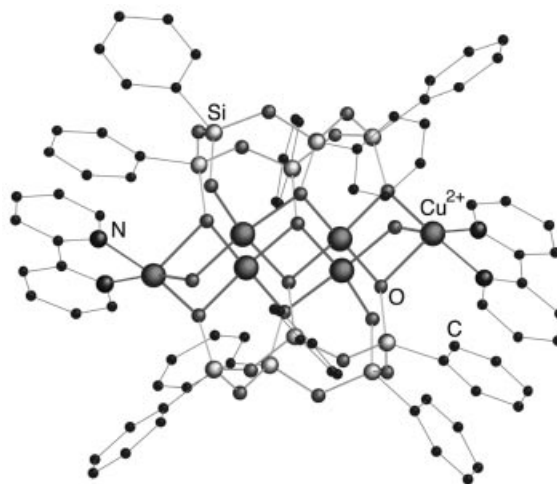
V. Gallo, M. Latronico, P. Mastroilli,*
C. F. Nobile, G. P. Suranna, G. Ciccarella,
U. EnglertSynthesis of Phosphido-Bridged Phosphinito
Platinum(I) Complexes by Reaction of *cis*-
 $PtCl_2(PHCy_2)_2$ with Oxygenated Bases – Crystal
Structure of $[(PCy_2OMe)Pt(\mu-PCy_2)]_2(Pt-Pt)$ **Keywords:** Platinum / Bridging ligands / Phosphinites /
Oxygenated bases

- 4617** V. Pashchenko,* B. Brendel, B. Wolf,
M. Lang, K. Lyssenko, O. Shchegolikhina,
Y. Molodtsova, L. Zherlitsyna, N. Auner,*
F. Schütz, M. Kollar, P. Kopietz, N. Harrison



Synthesis, Structure and Magnetic Properties of a Novel Linear Cu^{II}-Trimer Complex

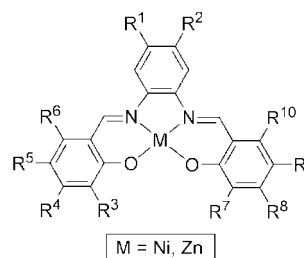
Keywords: Copper / Cluster compounds / Sandwich complexes / Magnetic properties



- 4626** A. W. Kleij,* D. M. Tooke, A. L. Spek,
J. N. H. Reek*

A Convenient Synthetic Route for the Preparation of Nonsymmetric Metallo-salphen Complexes

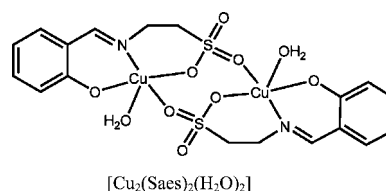
Keywords: N,O ligands / Nonsymmetric / Salen / Templated synthesis / Zinc



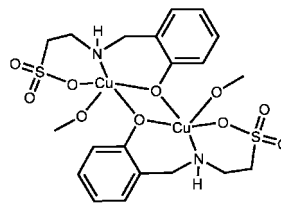
- 4635** B. Sreenivasulu, M. Vetrivelan, F. Zhao,
S. Gao,* J. J. Vittal*

Copper(II) Complexes of Schiff-Base and Reduced Schiff-Base Ligands: Influence of Weakly Coordinating Sulfonate Groups on the Structure and Oxidation of 3,5-DTBC

Keywords: Biomimetic studies / Copper / Schiff-base complexes / Organosulfonate ligands / Catecholase activity / Magnetic properties



[Cu₂(Saes)₂(H₂O)₂]



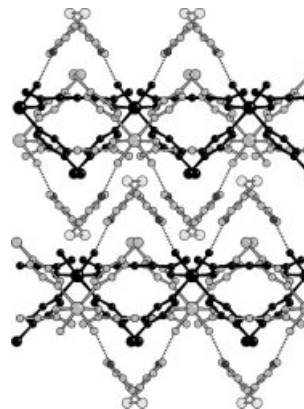
[Cu₂(Sac)₂]

- 4646** S. C. Manna, S. Konar, E. Zangrando,
K. Okamoto, J. Ribas,* N. Ray Chaudhuri*



Mn^{II}/Co^{II}-Terephthalate Frameworks Containing Dipyrindine Coligands: Syntheses, Crystal Structures, Magnetic Behaviors, and Thermal Studies

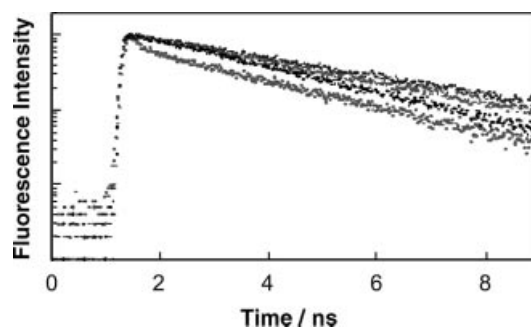
Keywords: Manganese(II) / Cobalt(II) / Crystal structure / Magnetic behavior / Supramolecular chemistry



4655 Y. Chen,* Y. Araki, M. Hanack,
M. Fujitsuka, O. Ito*

Steady-State and Time-Resolved Photophysical
Studies on a Series of Gallium Phthalocyanine
Monomers and Dimers

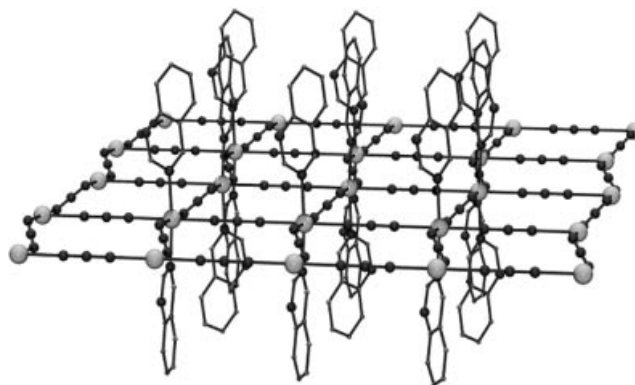
Keywords: Optical properties / Photophysics /
Gallium / Phthalocyanines



4659 M. A. M. Abu-Youssef,* A. Escuer,
V. Langer

New Polymeric Manganese Azide Derivatives
with Quinazoline

Keywords: Azides / Coordination polymers / Magnetic
properties / Manganese



CORRECTION

4665 A. W. Addison,* R. J. Butcher,
Z. Homonnay, V. V. Pavlishchuk,*
M. J. Prushan, L. K. Thompson

The Hexakis(thiocyanato)ferrate(III) Ion: a Co-
ordination Chemistry Classic Reveals an Inter-
esting Geometry Pattern for the Thiocyanate
Ligands

Keywords: Iron / Thiocyanate / X-ray diffraction /
Magnetic properties / IR spectroscopy /
Moessbauer spectroscopy / Coordination
modes / Isomers



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