

Contents

Vol. 68, No. 5, 1998

Simultaneous English language translation of the journal is available from МАИК-Наука/Interperiodica Publishing (Russia).
Distributed worldwide by Plenum Consultants Bureau. *Russian Journal of General Chemistry* ISSN 1070-3632.

Synthesis and Scientific Principles of Supernitromag $\text{Sm}_2\text{Fe}_{17}\text{N}_3$ Production

O. V. Kravchenko, V. V. Burnasheva, A. D. Terekhov, and K. N. Semenenko p. 663 [abstract](#)

Theoretical Study of Oxidative Addition to Platinum Metal Complexes. III. Activation of Methane, Ethane, and Propane with 16-Electron Palladium(II) and Platinum(II) Chlorocyclopentadienyl Complexes

A. N. Vedernikov, G. A. Shamov, and B. N. Solomonov p. 667 [abstract](#)

Theoretical Study of Oxidative Addition to Platinum Metal Complexes.

IV. Thermodynamic Substrate and Regioselectivities of 16-Electron Planar Complexes of Rhodium(I) and Palladium(II) and Cyclopentadienyl Complexes of Platinum(II) and Iridium(I) in Reactions with Small Alkanes

A. N. Vedernikov, G. A. Shamov, and B. N. Solomonov p. 675 [abstract](#)

Infrared Spectra and Structure of Palladium(II) Diacetate Complexes

I. P. Romm, Yu. G. Noskov, T. I. Perepelkova, S. V. Kravtsova, and T. M. Buslaeva p. 681 [abstract](#)

Spectrophotometric Study of Mixed-Ligand Complex Formation of Copper(II) with Glycine and Histidine

P. M. Zaitsev, G. I. Dorofeeva, N. U. Venskovskii,
V. V. Enger Aires, and M. A. Zatikyan p. 686 [abstract](#)

Change in pH_s of Near-Electrode Layer of the Dropping Mercury Electrode in the Course of Electrolytic Reduction of Molecular Oxygen in Polarographic Determination of Indium(III), Cadmium(II), and Thallium(I)

V. N. Statsyuk and M. B. Dergacheva p. 691 [abstract](#)

Diffusion of Electrolyte Solutions in the Ion Plasma Approximation

M. M. Baldanov and B. B. Tanganov p. 694 [abstract](#)

Selective Solvation of Ferrocene, Tetraphenylmethane, and Tetraphenylgermane in Aqueous-Aprotic Solvents

A. I. Nikitina, P. K. Leont'evskaya, and A. A. Pendin p. 697 [abstract](#)

Extraction Ability of 5-Methyl-2-phenyl-2,3-dihydro-1*H*-pyrazol-3-one and Bis(5-hydroxy-3-methyl-1-phenylpyrazol-4-yl)alkanes Derived from It

M. I. Degtev, T. L. Morozova, and Yu. I. Smirnov p. 704 [abstract](#)

Approximation and Prediction by Pitzer's Method of Equilibrium Constants of Reactions in Solutions, as Influenced by the Composition and Concentration of Supporting Electrolyte

A. A. Bugaevskii, Yu. V. Kholin, D. S. Konyaev, and A. V. Krasovitskii p. 710 [abstract](#)

Thermodynamics of Complex Formation and Solvation in the Systems M-18-Crown-6-H₂O-2-Propanol (M = Na⁺, K⁺)

Yu. Didi, A. P. Kern, E. N. Tsurko, and N. V. Bondarev p. 715 [abstract](#)

Solvation of Hydrocarbon Radicals and Functional Groups of Organic Molecules in Mixtures of Water with Methanol, 1-Propanol, and 2-Methylpropan-2-ol

D. V. Batov, O. A. Antonova, and V. P. Korolev p. 720 [abstract](#)

Excess Enthalpies of Alkanes in Aqueous-Organic Solvents

V. P. Korolev p. 727 [abstract](#)

Conformational Behavior of 1,3,2,6-Dioxaphosphazocines.

Fourier IR Spectroscopy and Molecular Mechanics Studies

A. Kh. Plyamovaty, I. I. Vandyukova, N. V. Timosheva,
R. R. Shagidullin, and R. P. Arshinova p. 733 [abstract](#)

Synthesis and Steric Structure of 1,3,2-Dioxaborolanes with an Exocyclic Phosphorus-containing Group

A. S. Balueva, E. I. Musina, and G. N. Nikonorov p. 736 [abstract](#)

Synthesis and Properties of Cross-Linked Hydrogels of Copolymers
of Acrylic and (2-Chloro-1-methyleneprop-2-enyl)phosphinic Acids

M. V. Uspenskaya, S. A. Yankovskii, and A. S. Bobasheva p. 740 [abstract](#)

Structure and Intramolecular Lability of *N*-(Thio)phosphoryl(thio)amides.

IV. ^1H , ^{13}C and ^{31}P NMR Study of Dynamic Processes in Solutions
of *N,N'*-Bis(diisopropoxythiophosphorylaminothiocarbonyl)-1,10-diaza-18-crown-6 Ethers

F. Kh. Karataeva, N. F. Galiullina, A. V. Aganov, and N. G. Zabirov p. 743 [abstract](#)

Synthesis of Aryl(amino)phosphonium Salts and *N,N*-Diethylamides of Diarylphosphinic Acid

*B. T. Utenova, E. A. Krasil'nikova, E. L. Gavrilova,
A. T. Gubaiddullin, and I. A. Litvinov* p. 748 [abstract](#)

Reaction of Triethyl Phosphite with Internal Perfluoroolefins and Their Aza Analogs

A. V. Rogoza and G. G. Furin p. 753 [abstract](#)

Mass Spectra of 1-Methyl and 1,2-Dimethyl-2-azasilatran-3-ones

L. V. Klyba, V. N. Bochkarev, N. F. Lazareva, M. G. Voronkov, and V. A. Pestunovich p. 761 [abstract](#)

Kinetics and Mechanism of Thermolysis of Bis(nitroamino)methane in Liquid Phase

R. S. Stepanov, A. M. Astakhov, L. A. Kruglyakova, and Yu. V. Kekin p. 764 [abstract](#)

Monomeric and Silica Gel-Grafted Di-*tert*-butyl-1,2-benzoquinone

V. T. Abaev, L. B. Dzaraeva, A. F. Blinokhvostov, and O. Yu. Okhlobystin p. 768 [abstract](#)

N,N'-Bis(3-trialkylsilylpropyl)- and *N,N'*-Bis(3-tralkoxysilylpropyl)thiocarbamides
and Their Derivatives

M. G. Voronkov, N. N. Vlasova, and A. E. Pestunovich p. 770 [abstract](#)

Effect of the Nature of the Organic Nitrogen-containing Cation

on Formation and Stability of Polyiodides

M. S. Chervon'yants, E. B. Podgornaya, A. I. Pyshchev, and I. N. Shcherbakov p. 775 [abstract](#)

Kinetics of Deuterium Exchange of 2-Hydroxypropiophenone and Acetone with Deuteriomethanol

O. N. Karpov p. 779 [abstract](#)

Molecular Complexes of Diaryl Ethers

B. S. Pryalkin p. 783 [abstract](#)

^1H and ^{13}C NMR Study of the Structure of Calixresorcinol[4]arennes

F. Kh. Karataeva, E. Kh. Kazakova, and V. V. Klochkov p. 786 [abstract](#)

^1H and ^{13}C NMR Study of Dynamic Properties of Substituted Calix[4]arennes

*F. Kh. Karataeva, A. I. Rakhmatullin, A. V. Aganov,
Yu. E. Morozova, and E. Kh. Kazakova* p. 790 [abstract](#)

Basicity of Azoles. V. Complex Formation and Hydration of Vinyl Derivatives
of 2-Formylimidazole and -benzimidazole on their Reaction with Metal Chlorides

*L. V. Baikalova, E. S. Domnina, T. V. Kashik, G. A. Gavrilova,
V. N. Kukhareva, A. V. Afonin, and T. V. Mamaseva* p. 795 [abstract](#)

Azoles and Azines. CV. 5,5'-Arylmethylenebis(2-thiobarbituric) Acids and Their Pyridinium Salts

A. V. Moskvin, I. I. Polkovnikova, and B. A. Ivin p. 801 [abstract](#)

Azoles and Azines. CVI. Reactions of 2-Ethoxy-4-hydroxy-6*H*-1,3-thiazin-6-one
with Electrophilic Reagents

O. Yu. Strelova, V. N. Kuklin, and B. A. Ivin p. 806 [abstract](#)

Synthesis and Properties of Metal Tetrahalotetranitrophthalocyanines

O. V. Shishkina, V. E. Maizlish, G. P. Shaposhnikov, and R. P. Smirnov p. 813 [abstract](#)

Reactivity of Substituted 6-Chloro-7-diethylsulfamoyl-9-thioacridones

E. N. Svechnikova **p. 818** [abstract](#)

Stereochemical Assignments in the Series of 20-Isoxazolin-5'-yl Steroids from ^1H NMR Data

R. P. Litvinovskaya, A. V. Baranovskii, S. V. Drach, and V. A. Khrapach **p. 820** [abstract](#)

Letters to the Editor

Synthesis of Gelatin-Immobilized Hexacyanoferrates of *p*-, *d*-, and *f*-Metals

O. V. Mikhailov **p. 827** [abstract](#)

Reaction of Trichloroacetic Anhydride and Diacylal with Trialkyl Phosphites

M. B. Gazizov, R. A. Khairullin, R. F. Khamidullin, G. G. Safina, and A. G. Kharlamova **p. 829** [abstract](#)

Synthesis of 2,4-Diphenylselenophene

T. A. Shilkina, L. K. Papernaya, and E. N. Deryagina **p. 831** [abstract](#)
