Contents

Vol. 67, No. 1, 1997

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

Dissociation of Arenesulfonic Acids. Determination of pK_a of Sulfonic Acids from Distribution in a Liquid–Liquid System

E. N. Krylov and O. G. Tokareva **p. 1** abstract

Equilibria in the Systems M^{n+}–3-Amino-1,2,4-triazole–H_2O (M^{n+} = Co^{2+}, Ni^{2+}, Cu^{2+}, Zn^{2+}, Cd^{2+}, Hg^{2+}, Ca^{2+}, Al^{3+}, and Fe^{3+})

K. A. Davarski, P. N. Berberova, S. D. Manolov, P. Z. Yankova, and E. D. Momchilova **p. 5** abstract

Effect of Synthesis Conditions on the Complex Formation in the System $TiCl_4$–Pyridine

T. N. Sevast'yanova, E. N. Luchinina, A. V. Suvorov, and Yu. E. Smirnov **p. 9** abstract

Evaluation of the Effect of Magnetic Treatment of Solutions by the Thermochemical Data on Dissolution of Electrolytes

S. A. Koksharov and V. V. Ivanov **p. 15** abstract

Photolysis of Dialkylthallium Halides in Cyclohexane

I. F. Gun'kin and E. F. Finaenova **p. 19** abstract

Synthesis of Diphenylthallium Acetate and Bromide from Phenylhydrazine and Thallium(III) Oxide

I. F. Gun'kin **p. 21** abstract

Chemistry of Binuclear Bridged Complexes of Platinum Metals. I. Quantum-Chemical Description of Interactions between Metal Centers Containing Ru(II) and Ru(III)

O. V. Sizova, N. V. Ivanova, and A. B. Nikol'skii **p. 23** abstract

Coordination Compounds of Cu(II), Ni(II), and Co(II) with 7-{2-[Bis(2-hydroxyethyl)amino]ethyl}-1,3-dimethylxanthine (Vephilin)

K. A. Davarski, D. S. Ivanov, R. Z. Yankova, and Ts. B. Kovachev **p. 34** abstract

Fe(III) Thiosulfate Complexes

I. E. Kalinichenko, E. P. Rodina, and V. V. Trachevskii **p. 39** abstract

Kinetics and Mechanism of Thiosulfate Oxidation with Fe(III)

I. E. Kalinichenko, E. P. Rodina, and V. V. Trachevskii **p. 43** abstract

Electrochemical Study of Platinum Carbonyl Phosphine Clusters

G. V. Burmakina, O. V. Baulina, A. A. Ioganson, N. K. Eremenko, E. G. Mednikov, and S. S. Kurasov **p. 47** abstract

Influence of Water on Catalytic Oxidation of Ph_3P and Reduction of Pd(2+) to Pd(0) in the Reaction of $Pd(acac)_2$ and $Pd(acac)_2 \cdot Ph_3P$ with excess PPh_3

O. V. Tyukalova, G. V. Ratovskii, L. B. Belykh, and F. K. Shmidt **p. 53** abstract

Reactions of Vinyl Ethers with Secondary Phosphines

S. F. Malysheva, N. K. Gusarova, N. A. Belogorlova, M. V. Nikitin, D. V. Gendin, and B. A. Trofimov **p. 58** abstract

Reaction of Phosphorous Tris(*N*-methyl-*N*-trifluoroacetylamides) with Amines

A. D. Sinitsa, L. I. Nesterova, D. M. Malenko, and S. N. Luk'yanenko **p. 62** abstract

Reactions of Red Phosphorus and Phosphine with Electrophiles in Superbasic Systems. IX. Addition of Phosphine to Vinylpyridines in the KOH–DMSO System

N. K. Gusarova, B. A. Trofimov, S. F. Malysheva, S. I. Shaikhudinova, N. A. Belogorlova, S. N. Arbuzova, K. V. Nepomnyashchikh, and V. I. Dmitriev **p. 65** abstract

Synthesis and Alkylation of Bis[dialkyl(diaryl)arsino]-1,4-dihydronaphthalenes

R. D. Gigauri, N. Z. Robakidze, M. A. Indzhiya, and E. S. Vachnadze **p. 72** abstract

Cleavage of Sn–Sn Bonds in Hexaalkyl(aryl)stannanes under the Action of Yb(II) Derivatives
O. P. Syutkina, L. F. Rybakova, M. N. Novgorodova, and E. S. Petrov **p. 76** abstract

Catalytic Activity of Titanium Alkoxy Derivatives in Alcoholysis of Ethoxysilanes
T. G. Khonina, N. A. Kochneva, and A. L. Suvorov **p. 79** abstract

Reactions of Lithium and Magnesium Derivatives of *o*-Carboranes with Carbonyl Compounds
A. V. Kazantsev, V. V. Butyaikin, Yu. A. Kazantsev, and E. A. Otrashchenkov **p. 83** abstract

"Inductive" Electronegativities of Substituents at Various Reaction Centers
A. R. Cherkasov, V. I. Galkin, E. M. Zueva, and R. A. Cherkasov **p. 87** abstract

Spectrophotometric and Potentiometric Study of the State of *N*-Aryl-3-aminopropionic Acids in Aqueous Solutions
V. P. Melkozerov, L. K. Neudachina, and A. A. Vshivkov **p. 92** abstract

Acid–Base Equilibria in Amide Solutions
Vad. V. Negrebetskii **p. 98** abstract

Effect of Cobalt Chloride on the Regioselectivity of Reaction of Olefins with Carbon Monoxide and Alcohols, Catalyzed with $PdCl_2(Ph_3P)_2$
T. E. Kron, M. I. Terekhova, Yu. G. Noskov, and E. S. Petrov **p. 102** abstract

Reaction of *p*-Toluenesulfonyl Chloride with Metal Fluorides in Bipolar Aprotic Solvents: Phase-Transfer Catalysis of the Reaction with Polyethylene Glycols
E. N. Krylov and T. A. Buslaeva **p. 106** abstract

Oxidation of Alkylarenes by the Aluminum Tri-*tert*-butoxide–*tert*-Butyl Hydroperoxide System
L. P. Stepovik, V. A. Dodonov, and E. A. Zaburdaeva **p. 111** abstract

Oxidation of Tetrafluorobenzene Derivatives with Cerium(IV) Perchlorate
J. Dziegieć and A. Grzejdziak **p. 116** abstract

Molecular Complexes of *sym*-Trinitrobenzene with Sterically Hindered Anilines and Phenols
B. S. Pryalkin **p. 120** abstract

Quantitative Evaluation of the Effect of Alkaline-Earth Metal Ions in Immobilized Choline Esterase
E. P. Medyantseva, M. G. Vertlib, G. K. Budnikov, and M. P. Kutyreva **p. 124** abstract

Initiation of Piperazine Ring Formation by Formaldehyde in Its Reaction with Nickel(II) *N*-(2-Aminoethyl)aziridine and *N*-(2-Haloethyl)ethylenediamine Complexes
V. B. Ukraintsev and B. A. Krasnov **p. 128** abstract

Synthesis and Reactivity of Substituted 9-Thioacridones
E. N. Svechnikova **p. 132** abstract

Solvation of Macroheterocycles Containing 1,3-Indanedione Fragments in Alcohols
G. R. Berezina, Yu. G. Vorob'ev, and R. P. Smirnov **p. 135** abstract

Synthesis of Some Azomethine Derivatives of 2-Amino-5-phenyl-1,3,4-thiadiazole
K. I. Eremin, A. V. Golovanov, V. I. Krutikov, and A. N. Lavrent'ev **p. 138** abstract

Molecular Structure and Affinity for Serotonin *5-HT*$_{1A}$ Receptors of 1-(*p*-Chlorophenyl)-4-[4-(*N*)-naphthalimido)butyl]piperazine
M. Gdaniec, Yu. A. Simonov, Yu. M. Chumakov, S. G. Soboleva, V. M. Varava, V. M. Sava, and S. A. Andronati **p. 141** abstract

==========

Letters to the Editor

Synthesis and Spectral Properties of Potassium Aluminosilicophosphate Glass Doped with Europium(III) Oxide
I. M. Batyaev and A. M. Tinus **p. 148** abstract

Synthesis of Dibenzylphosphinous Acid from Phosphine and Benzyl Chloride
S. I. Shaikhudinova, V. I. Dmitriev, K. V. Nepomnyashchikh, N. K. Gusarova, and B. A. Trofimov **p. 149** abstract

Bromination of Phosphorous Tris(*N*-methyl-*N*-trifluoroacetylamide)
L. I. Nesterova, D. M. Malenko, V. V. Pirozhenko, and A. D. Sinitsa **p. 151** abstract

Rearrangement of *N*-Phosphorylimidoyl Chlorides into *N*-Acyl-*P*-chlorophosphazo Compounds
N. V. Kolotilo, P. P. Onys'ko, and A. A. Sinitsa **p. 154** abstract

Phosphorylation of *N*-Acetyltetraiodopyridazinone
M. Yu. Dmitrichenko, V. G. Rozinov, G. D. Eliseeva, G. V. Ratovskii, D. F. Kushnarev, and A. V. Zhilyakov **p. 156** abstract

Functionally Substituted Phosphites and Their Intramolecular Rearrangements
F. I. Guseinov, R. N. Burangulova, and V. V. Moskva **p. 157** abstract

Synthesis of 9-Oxa-1,2,3,4*b*,5,6,7,8,8*a*,9,10,10*a*-dodecahydrophenanthrenes
V. A. Chauzov and V. Z. Parchinskii **p. 159** abstract

Rearrangement of 2,4-Dioxaspiro[5.5]undec-8-enes into 1-Hydroxymethyl-3-oxabicyclo[3.3.1]non-6-enes
V. A. Chauzov and V. Z. Parchinskii **p. 160** abstract

Dialkoxyphosphorylalkyl Imidates in the Todd–Atherton Reaction
V. E. Shishkin, E. V. Mednikov, E. V. Zubareva, and B. I. No **p. 162** abstract