

POLISH JOURNAL OF CHEMISTRY

7:51 12P

Volume 74 Number 6 June 2000

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POLISH JOURNAL OF CHEMISTRY

(formerly *Roczniki Chemii* 1921–1977)

Published by the Polish Chemical Society

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Detailed instruction to contributors is published in the first issue 2000 and can be found on Journal's Home Page.

FREQUENCY

Twelve issues per year.

SUBSCRIPTION INFORMATION

All correspondence should be sent to the Editor-in-Chief.

DTP: *Publishing Section of the Institute of Physical Chemistry, Polish Academy of Sciences*
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IUPAC RECOMMENDATIONS ON NOMENCLATURE AND SYMBOLS

**Physical Chemistry Division
Commission on Colloid and Surface Chemistry Including Catalysis**

**Nomenclature of Structural and Compositional Characteristics of Ordered
Microporous and Mesoporous Materials with Inorganic Hosts**

SYNOPSIS

A system of terms applicable to ordered microporous and mesoporous materials is proposed, and rules for writing a standardized crystal chemical formula for such materials are presented. The recommendations are based both on common usage and on a systematic classification scheme. The nomenclature has been developed to encompass all inorganic materials with ordered, accessible pores with free diameters of less than 100 nm. The crystal chemical formula describes the chemical composition of both the guest species and the host, the structure of the host, the structure of the pore system, and the symmetry of the material. This formula can be simplified or expanded to suit the user's requirements.

Comments on this document are welcomed and should be send by 31 October 2000 to: Dr Lynne B. McCusker, Laboratorium für Kristallographie, ETH-Zentrum, CH-8029 Zürich, Switzerland E-mail: Lynne.McCusker@kristall.erdw.ethz.ch

To obtain a copy of the provisional recommendations please write to Professor Osman Achmatowicz, Pharmaceutical Research Institute, 8 Rydygiera Str., 01-793 Warszawa, Poland.

AUTHOR INDEX

- Aghabozorg H., 837
Anulewicz-Ostrowska R., 823
Bąkowska-Janiszewska J., 777
Barański A., 767
Chen Xu, 889
Cserny I., 847
Daghighi-Asli M., 837
Deńca A., 871
Du J.Y., 889
Ganjali M.R., 837
Gao E.Q., 867
Gołębiewski W.M., 759
Ishwar Bhat K., 793
Jabłoński A., 847
Jiang Z.H., 867
Jiricek P., 847
Jyothi T.M., 801
Kaczmarek B., 885
Kancierz K., 871
Koleva V., 823
Korohoda M.J., 751
Kövr L., 847
Korybut-Daszkiwicz B., 813
Kosiński A., 847
Krawczyk M., 847
Leciejewicz J., 877
Lesiak B., 847
Liao D.Z., 867
Łopusiński A., 785
Maciejewska D., 823
Michalik J., 813
Mielniczak G., 785
Mirajkar S.P., 801
Moghimi A., 837
Oleksyn B.J., 751
Parsa F., 837
Pourghobadi Z., 837
Ptasiewicz-Bąk H., 877
Rao B.S., 801
Sadło J., 813
Satyanarayana D., 793
Ścianowski J., 777
Seyyed-Majidi F., 837
Shamsipur M., 837
Sherigara B.S., 793
Shi H.Q., 889
Śliwiński J., 751
Sreekumar K., 801
Subrahmanyam E.V.S., 793
Sugunan S., 801
Talawar M.B., 801
Taraszewska J., 813
Tóth J., 847
Uzarewicz A., 777
Varga D., 847
Wawer I., 823
Wilkowska E., 759
Yan S.P., 867
Yang G.M., 867
Zemek J., 847
Żesławska E., 751
Zommer L., 847

CONTENTS



60000000126603

ORGANIC CHEMISTRY

- 751 **The Crystal and Molecular Structure of 1-Methyl-4-(*p*-methylbenzylidene)-2-imidazolone** — Żesławska E., Oleksyn B.J., Korohoda M.J. and Śliwiński J.
- 759 **Synthesis and Biological Activity of New Diarylalkenes**
— Gołębiewski W.M. and Wilkowska E.
- 767 **Synthesis and Properties of Azoles and Their Derivatives. XLIII. Regio- and Stereoselectivity of [2+3] Cycloaddition Reaction of E-β-Nitrostyrene to Z-C-Aryl-N-phenylnitrones**
— Barański A.
- 777 **Reaction of (+)-3-Carene and (+)-2-Carene with *t*-Butyl Hypochlorite or N-Chlorosuccinimide in the Presence of Free Radical Catalysts** — Uzarewicz A., Ścianowski J. and Bąkowska-Janiszewska J.
- 785 **On the Route to the N-Phosphoryl Sulfamic Acid** — Mielniczak G. and Łopusiński A.

PHYSICAL CHEMISTRY

- 793 **Kinetics and Mechanism of Oxidative Transformations of (6R)-6-(α-Phenyl-D-glycylamino)penicillanic Acid (Ampicillin) by Manganese(III) in Pyrophosphate Medium**
— Subrahmanyam E.V.S., Ishwar Bhat K., Shrigara B.S. and Satyanarayana D.
- 801 **Physico-Chemical Characteristic of Sulfated Mixed Oxides of Sn with Some Rare Earth Elements** — Jyothi T.M., Sreekumar K., Talawar M.B., Mirajkar S.P., Rao B.S. and Sugunan S.
- 813 **Stability and ESR Spectra of Ni(III) Tetraazamacrocyclic Complexes in Nitrate and Chloride Solutions** — Taraszewska J., Sadlo J., Michalik J. and Korybut-Daszkiewicz B.
- 823 **Structure and Hydrogen Bonding of Solid N¹-Alkyl-N²-(2-hydroxy, 4- or 5-methylphenyl)thioureas** — Wawer I., Anulewicz-Ostrowska R., Maciejewska D. and Koleva V.
- 837 **Synthesis of a New Triazine Derived Macrocyclic and a Thermodynamic Study of Its Complexes with Some Transition and Heavy Metal Ions in Acetonitrile Solution**
— Pourghobadi Z., Scyyed-Majidi F., Daghighi-Asli M., Parsa F., Moghimi A., Ganjali M.R., Aghabozorg H. and Shamsipur M.
- 847 **Characterization of Polyacetylene and Polyacetylene Doped with Palladium** — Lesiak B., Kosiński A., Krawczyk M., Zommer L., Jabłoński A., Kövér L., Tóth J., Varga D., Cserny I., Zemek J. and Jiricek P.

COMMUNICATIONS

- 867 **Synthesis and Magnetic Properties of Tetranuclear Copper(II)-Cobalt(II) Complexes of Macrocyclic Oxamides** — Gao E.Q., Yang G.M., Liao D.Z., Jiang Z.H. and Yan S.P.
- 871 ***In-situ* Spectroelectrochemical Investigation of Inclusion Complex of Pyrocatechol and Cyclodextrin in Poly(pyrrole) Film** — Deńca A. and Kanclerz K.
- 877 **The Crystal Structure of Monoaquabis(trans-5-methylpyrazine-2-carboxylato-N,O)copper(II) Trihydrate** — Ptasiewicz-Bąk H. and Leciejewicz J.
- 885 **Ternary Liquid-Liquid Equilibria: Hexamethyldisiloxane-Dimethyl Sulfoxide-Methyl Ethyl Ketone (-Diethyl Ketone)** — Kaczmarek B.
- 889 **Ni(Pz^{β-β'})₄(N₃)₂ – a Versatile Precursor as Ligand for the Design of the Heteropolymetallic Systems** — Chen Xu, Du J.Y. and Shi H.Q.
- 893 **IUPAC Recommendations on Nomenclature and Symbols**