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IUPAC RECOMMENDATIONS ON NOMENCLATURE AND SYMBOLS

IUBMB-IUPAC
Joint Commission on Biochemical Nomenclature (JCBN)

SYNOPSIS

Nomenclature of Lignans and Neolignans

Lignans and neolignans are a large group of natural products characterized by the coupling of two C_6C_3 units. For nomenclature purposes the C_6C_3 unit is treated as propylbenzene and numbered from 1 to 6 in the ring, starting from the propyl group, and with the propyl group numbered from 7 to 9, starting from the benzene ring. With the second C_6C_3 unit the numbers are primed. When the two C_6C_3 units are linked by a bond between positions 8 and 8', the compound is referred to and named as a lignan. In the absence of the C-8 to C-8' bond, and where the two C_6C_3 units are linked by a carbon-carbon bond, it is referred to and named as a neolignan. The linkage with neolignans may include C-8 or C-8'. Where there are no direct carbon-carbon bonds between the C_6C_3 units and they are linked by an ether oxygen atom the compound is named as an oxyneolignan. The nomenclature provides for the naming of additional rings and other modifications following standard organic nomenclature procedures for naming natural products. Provision is included to name the higher homologues. The sesqueneolignans have three C_6C_3 units and dineolignans have four C_6C_3 units.

Comments by 30 June 1999 to Prof. G.P. Moss, Department of Chemistry, Queen Mary and Westfield College, Mile End Road, London E1 4N5, United Kingdom TEL:+44 (171) 775 3262 FAX:+44 (181) 9818745 Email:g.p.moss@qmw.ac.uk

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AUTHOR INDEX

- Barciszewski J., 879
Bernasconi S., 813
Bodak O., 885
Borowiecka J., 793
Bujak M., 773
Culeddu N., 873
Demchenko P., 885
Drabczyńska A., 783
Dyba M., 873
Foks H., 845
Galdecka E., 821, 859
Galdecki Z., 821, 859
Ganadu M.-L., 873
Giel-Pietraszuk M., 879
Główska M.L., 845
Gorgut G.P., 765
Hudecová D., 759
Jarzębski A.B., 805
Jiang Z.H., 889
Karolak-Wojciechowska J., 783
Kieć-Kononowicz K., 783
Kobal I., 813
Kowalski A., 859
Kozłowska K., 845
Kozłowski H., 873
Lachowski A., 805
Leciejewicz J., 853
Liao D.Z., 889
Marczewski M., 805
Martynowski D., 845
Melník M., 759
Mojumdar S.C., 759
Morenko A.O., 765
Mrowiec-Białoń J., 805
Mucha P., 879
Ogrinc N., 813
Olczak A., 845
Olekseyuk I.D., 765
Ołubek Z., 845
Orlewska C., 845
Pająk L., 805
Papiernik-Zielińska H., 813
Parasyuk O.V., 765
Paul H., 813
Pruchnik F.P., 859
Ptasiewicz-Bąk H., 853
Rekowski P., 879
Salamakha P., 885
Solinas S., 873
Sologub O., 885
Starosta R., 859
Szyk A., 879
Wajda-Hermanowicz K., 859
Walczak K., 799
Wang G.L., 889
Wang Z., 889
Yan S.P., 889
Zaleski J., 773
Zhao Q.H., 889
Zielińska A., 813
Zieliński M., 813



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CONTENTS

INORGANIC CHEMISTRY

- 759 **Preparation, Spectral Properties and Antimicrobial Effects of New Cu(II) Compounds with Some Bio-Active Ligands** — Mojumdar S.C., Hudecová D. and Melník M.
- 765 **Phase Relations in the CuGaTe₂-HgTe and CuInTe₂-HgTe Systems** — Parasyuk O.V., Olekseyuk I.D., Morenko A.O. and Gorgut G.P.
- 773 **The Crystal Structure of Bis(ethylammonium) Pentachloroantimonate(III)-ethylammonium Chloride (C₂H₅NH₃)₂SbCl₅·(C₂H₅NH₃)Cl at 295 and 90 K. On the Deformation of the Octahedral Coordination of Sb^{III}** — Bujak M. and Zaleski J.

ORGANIC CHEMISTRY

- 783 **Structure and Activity Studies of Glycine Receptor Ligands. Part 4. N-[(7-Arylalkyl, 7-aryloxyalkyl)-8-theophyllyl]-glycines** — Drabczyńska A., Karolak-Wojciechowska J. and Kieć-Kononowicz K.
- 793 **New Derivatives of α - and β -Dithiophosphates of 2-Bromo-2-deoxy Sugars** — Borowiecka J.
- 799 **Synthesis of 4-Nitroimidazole Nucleosides from 1,4-Dinitroimidazoles and D-Ribosylamines** — Walczak K.

PHYSICAL CHEMISTRY

- 805 **Morphology and Activity of Zirconia-Sulfate Aerogels** — Mrowiec-Białoń J., Pająk L., Marczewski M., Lachowski A. and Jarzębski A.B.
- 813 **C-13 Isotope Effects in the Decarboxylation of Phenylpropionic Acid (PPA) in Water Solution of Formic Acid (FA), in Pure Water and the Related C-13 Kinetic Isotope Effect in the Decarboxylation of Formic Acid in Water Solution of Formic Acid and Phenylpropionic Acid** — Zielińska M., Zielińska A., Ogrinc N., Kobal I., Paul H., Bernasconi S. and Papiernik-Zielińska H.

CRYSTAL AND MOLECULAR STRUCTURES

- 821 **X-ray Investigations of Four Selected Multifunctional Phenylsulfones** — Galdecka E. and Galdecki Z.
- 845 **Crystal and Molecular Structures of 1,1-Bis(methylthio)-4-(2-pyridyl)-2,3,5-triaza-1,3-pentadiene and Its 5-Phenyl Derivative** — Głowska M.L., Martynowski D., Olczak A., Kozłowska K., Ołubek Z., Orlewska C. and Foks H.
- 853 **Molecular Ribbons in the Crystals of a New Cu(II) Complex with Pyrazine-2,3-dicarboxylate Ligand** — Ptasiwicz-Bąk H. and Leciejewicz J.
- 859 **Structure of Three Selected Dirhodium(II) and Cobalt(II) Phosphane Complexes** — Galdecki Z., Galdecka E., Kowalski A., Pruchnik F.P., Wajda-Hermanowicz K. and Starosta R.

COMMUNICATIONS

- 873 **Cu(II) Complexes with Rutin** — Dyba M., Solinas S., Culeddu N., Ganadu M.-L. and Kozłowski H.
- 879 **Synthesis and Circular Dichroism Studies of HIV-1 Tat Arginine Rich Domain Analogues Substituted in Arg 52 Position** — Szyk A., Mucha P., Rekowski P., Giel-Pietraszuk M. and Barciszewski J.
- 885 **X-ray Investigation of the Ternary Nd-Zn-(Sn, Pb) Systems** — Salamakha P., Demchenko P., Sologub O. and Bodak O.
- 889 **Synthesis and Properties of the Complexes of Lanthanides with Nitronyl Nitroxides** — Wang Z., Zhao Q.H., Liao D.Z., Jiang Z.H., Yan S.P. and Wang G.L.
- 893 **IUPAC Recommendations on Nomenclature and Symbols**