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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 fom 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 sesquineolignans 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 4NS, United Kingdom TEL:+44 (171) 775 3262 FAX:+44 (181) 9818745 Email:g.p.moss@qmw.ac.uk

To obtain a copy of the provisional recommendations please write to Professor Osman Achmatowicz, The Polish Chemical Society, ul. Freta 16, 00-227 Warszawa.

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*Complete instruction appeared in the January issue and can be found on Journal`s Home Page http://malina.ichf.edu.pl/pjch

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