

ONLINE ISSN : 1880-7577 PRINT ISSN : 0021-4795

Mokuzai Gakkaishi Vol. 55 (2009), No. 4 p.187-197

[PDF (824K)] [References]

Synthesis of Lignin Model Compounds and Their Application to Wood Research

Takao Kishimoto¹⁾

1) Faculty of Engineering, Toyama Prefectural University

(Received December 17, 2008) (Accepted January 19, 2009)

Abstract: Lignin is a complicated biopolymer which exists in the wood cell wall. Many model compounds that mimic substructures of lignin have been synthesized. They have been used and played an important role in the various fields of wood research. This paper summarizes the synthesis of lignin model compounds, and describes some examples of their use in wood research. In particular, this review focuses on recent progress in the synthesis of lignin model compounds. Furthermore, the synthesis of β -*O*-4 type artificial lignin polymers by the author is also briefly introduced.

Keywords: monolignol, <u>β-O-4</u>, <u>LCC</u>, <u>oligolignol</u>, <u>artificial lignin</u>

[PDF (824K)] [References]

Download Meta of Article[<u>Help</u>] <u>RIS</u> <u>BibTeX</u>

To cite this article: Takao Kishimoto: Mokuzai Gakkaishi Vol. 55, No. 4, 187-197 (2009).

doi:10.2488/jwrs.55.187

JOI JST.JSTAGE/jwrs/55.187

Copyright (c) 2009 by The Japan Wood Research Society

