

Depolymerization of Organosolv Lignin in Ethanol/Water Mixtures

Raphaela Süss^{a,b}, Gottfried Aufischer^{a,b}, David Arnezeder^{a,c}, Birgit Kamm^a
and Christian Paulik^b

^aWood K plus - Competence Center for Wood Composites & Wood Chemistry,
4040 Linz, Austria

^bInstitute for Chemical Technology of Organic Materials,
Johannes Kepler Universität Linz, 4040 Linz, Austria

^cUniversity of Applied Sciences Upper Austria, Stelzhamerstraße 23, 4600 Wels

The effect of reaction parameters (temperature, time) and the amount of homogenous catalyst NaOH on the depolymerization of Organosolv Lignin in different ethanol/water mixtures was tested. The experiments were carried out by means of statistical experimental design (DoE) to determine the influence of selected factors as well as their interactions. The obtained monomer- and oligomer-fractions were analyzed gravimetrically and by GC-MS.